TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS WOLFE-MORGAN COUNTIES RAMP D OVER RED RIVER STA. 58+96.50

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BID ITEM	Concrete Class "A"	Concrete Class "AA"		 		Cyclopean Stone Rip Rap	Structure Granular Backfill		Piles – Steel HP 12 x 53	Test Piles	Pile Points 12 Inch	Precast PC I-Beam Type 4	<u>e</u> ,	E		Drilled Shaft 60" (Rock)		Rock Corings	Deck Drain							
UNIT	C.Y.	C.Y.	LBS.	LBS.	C.Y.	Tons	C.Y.	S.Y.	LF.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.							
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Pier #2	50.4	11.7	7827	72	00			54							37	16	37								<u> </u>	-
Integral End Bent #2	19.0		102	3769		755	72		139	48	6				31	10		1 10								1
lt.		N 1	17																							1
Pier #2 Integral End Bent #2]
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Superstructure		121.3		40646				615				642.5	ь	331					2							
BRIDGE TOTALS	133.6	197.3	14904	48351	214	1438	146	783	293.0	89	12	642.5	61	331	75	32	75	92	5							

Sheet No.	Description
S1	Title Sheet
S2	General Notes
S3	Layout
S4-S6	Subsurface Data
S7	Geometric Layout
S8-S9	Foundation Layout
S10-S11	Integral End Bent 1
S12-S14	Pier Details
S15-S16	Integral End Bent 2
S17	Intergral End Bent Details
S18	Framing Plan
S19	PPC I-Beam Type 4
S20-S22	Superstructure
S23-S24	Construction Elevations
S25	Rail System Type 3
S26	Steel Diaphragms
S27	Elastomeric Bearing Pad
	SPECIAL NOTES

Della Charles

SPECIAL PROVISIONS

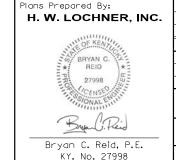
69 Embankment at Bridge End Bent Structures

	STANDARD DRAWINGS
BBP-002-04	Bearing Details
BGX-006-10	Stencils for Structures
BGX-012-02	Geotechnical Legend
BGX-015-03	Bridge Drains
RGX-100-06	Treatment of Embankment at End Bents
RGX-105-08	Treatment of Embankment at End Bents
BJE-001-13	Neoprene Expansion Dams and Armored Edges
BPS-003-09	HPI2x53 Steel Pile
l	

SPECIFICATIONS

2012 Standard Specifications for Road and Bridge Construction.

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition



ITEM NUMBER

10-126.70

CETAILED BY: W.R. ABBOTT B.C. REID

Commonwealth of Kentucky

DEPARTMENT OF HIGHWAYS

WOLFE-MORGAN

RAMP D

DATE: June, 2016 DESIGNED BY: B.C. REID

RED RIVER

TITLE SHEET

LOCHNER H.W. LOCHNER, INC.

LEXINGTON, KENTUCKY



CHECKED BY

GENERAL NOTES

SPECIFICATIONS: References to the Specifications are to the current edition of the Kentucky Department of Highways Standard Specification for Road and Bridge Construction including any current Supplemental Specification. All references to the AASHTO Specifications are to the sixth edition of the AASHTO LRFD Bridge Design Specifications for Highway Bridges.

DESIGN LOAD AND METHOD: This bridge is designed for KY HL-93 live load. The KY HL-93 live load is arrived at by increasing the Standard KY HL-93 truck and lane loads as specified in the AASHTO Specifications by 25%. All reinforced concrete members are designed by the load and resistance factor method as specified in the current AASHTO Specification.

WIND LOAD: This bridge is designed for a wind load based on a wind velocity of 100 mph.

FUTURE WEARING SURFACE: This bridge is designed for a 60 psf future wearing surface.

MATERIALS DESIGN SPECIFICATION:

FOR CLASS "A" REINFORCED CONCRETE F'C = 3500 PSI FOR CLASS "AA" REINFORCED" CONCRETE F'C = 4000 PSI FOR STEEL REINFORCEMENT FY = 60000 PSI FOR STEEL PILING FY = 50000 PSI

CONCRETE: Use Class "AA" concrete in the superstructure deck. parapet, and diaphragms.

Class "A" Concrete is to be used in substructure. Prestressed girder concrete shall be in accordance with the plans and specifications.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing is from center to center of bars. Clear distance to face of concrete is 2", unless otherwise noted. Epoxy coat bars designated by suffix (e) in accordance with Section 811.10 of the Standard Specifications. Use stirrup bend diameters for bars designated by suffix (s) in a Bill of Reinforcement.

BEVELED EDGES: Beverall exposed edges $\frac{3}{4}$ ", unless otherwise noted.

SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to the Bridge Consultant. If any changes in the design plans are proposed by a fabricator of supplier, submit those changes to the Bridge Consultant through the Contractor. The Bridge Consultant shall provide a copy of the final approved shop plans to the Division of Structural Design.

DIMENSIONS: Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions.

SLOPE PROTECTION: Use dry cyclopean stone in accordance with the plans and Specifications. Geotextile Fabric is to be incidental to this item.

MASONRY COATING: Apply masonry coating to the concrete surfaces as specified in Section 601.03.18 (B).

PILE POINTS: Provide pile points for all point bearing piles. Ensure pile points are in accordance with Section 604 of the Specifications and of the type shown on the Foundation Layout Sheet.

PILING: Piling shall be driven to refusal. Test piles shall be driven where designated on the plans to determine the length of pile required. All test piles shall be accurately located so they may be used in the structure.

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 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 construction, incidental materials, labor or anything else required to complete the structure.

SPIRAL COLUMN TIES: Splices for spirals where desired by the contractor shall be made with a minimum of one and one-half turns of spiral. No additional payment will be made for these splices, and the cost will be considered incidental to the cos of the developed-length of spiral shown on the plans. Spiral reinforcement shall meet the requirements of subsection 811.02.01 of the Specifications.

The length shown in the bill of reinforcement for spirals is the distance from top of footing to bottom layer of reinforcement in the pier cap. The number of turns shown is the length divided by the pitch, plus 3 turns (total number closed coils) expressed to the nearest whole number. One and one half closed coils shall be provided at the ends of each spiral unit. 4 channel, tee or angle spacers, weighing approximately 0.8 lbs. per linear foot of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. Weight of spiral reinforcement is included in the estimate of quantities for each pier.

POURING SEQUENCE: The pouring sequence of the slab may not be changed without the written approval of the Engineer.

EXISTING BRIDGE: Construction of the Ramp D Bridge may require removal of the existing piling at the abutments and pier locations.

END BENT CONSTRUCTION: Geotextile fabric and perforated pipe installed in accordance to Special Provision 69 shall be considered incidental to unit price bid for Structure Granular Backfill.

GEOTECHNICAL INFORMATION: Additional information can be found in geotechnical report S-018-2014.

CONSTRUCTION IDENTIFICATION: The names of the prime contractor and any sub-contractors shall be imprinted in the concrete with Standard Drawing BGX-006 c.e. at a location designated by the Engineer. The contractor shall furnish all plans, equipment, and labor necessary to do the work for which no direct payment will be made.

The following abbreviations may have been used in the preparation of these plans: Retween bet. b.f. Back Face Bottom of Footing BOF bot. Bottom Bearing Bra. C to C Center to Center Current Edition c.e. Cubic Yard C.Y. Chord Chd. CL Center Line CI. Clear Concrete Conc. Cu. Cubic Drawina Dwa e.f. Each Face Elevation EI. Equal ea. E.S. Equally Spaced Est. Estimate Ext. Exterior Face to Fac F to F f.f. Front Face Inside Diameter IEB Integral End Bent Inch Interior Int. Low Bridge Seat LBS LBS. Pounds М Meter MPH Miles per Hour Near Side n.s. Outside Diameter O. D. Opposite Opp. Point of Curve PC Perp. Perpendicular Point of Intersection PΙ Precast Prestressed Concrete PPC PPCD Precast Prestressed Concrete Deck Unit PSI Pounds per Square Inch РΤ Point of Tanaent Radius Right RCBC Reinforced Concrete Box Culvert RCDG Reinforced Concrete Deck Girder Req'd Required Railroad Shoulder Shld spa. Spaces Station Sta. Std. Standard Str. Straight Tan Tangent REVISION DATE Thru Through DATE: June, 2016 CHECKED BY TOF Top of Footing DESIGNED BY: B.C. REID W.D. BURTON Tot. Total DETAILED BY: W.R. ABBOTT W.D. BURTON Typical Тур. Vert. Vertical

Commonwealth of Kentucky

DEPARTMENT OF HIGHWAYS

WOLFE-MORGAN

ROUTE BAMP D RED RIVER **GENERAL NOTES**

ITEM NUMBER

Working Point

10-126.70

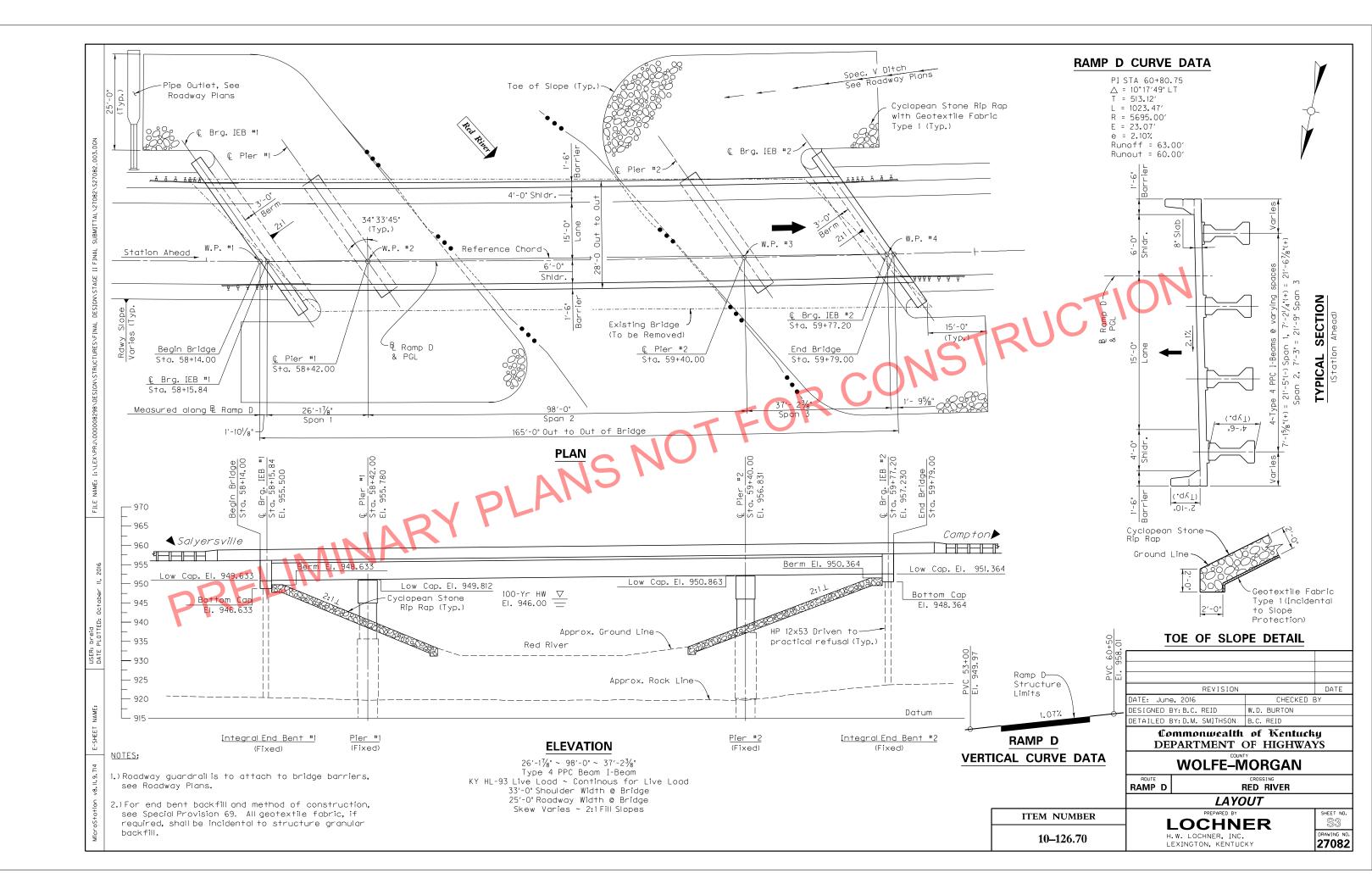
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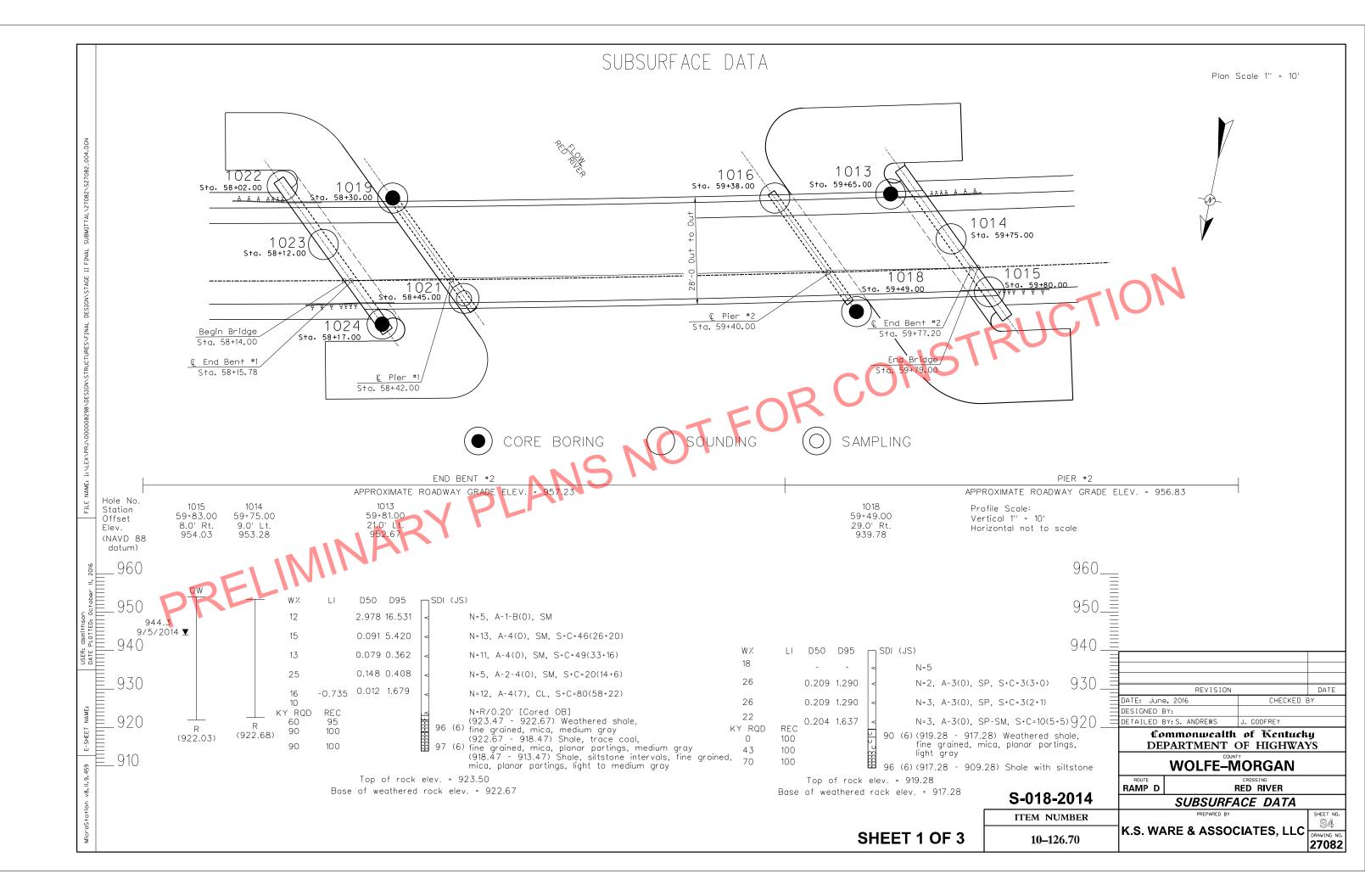
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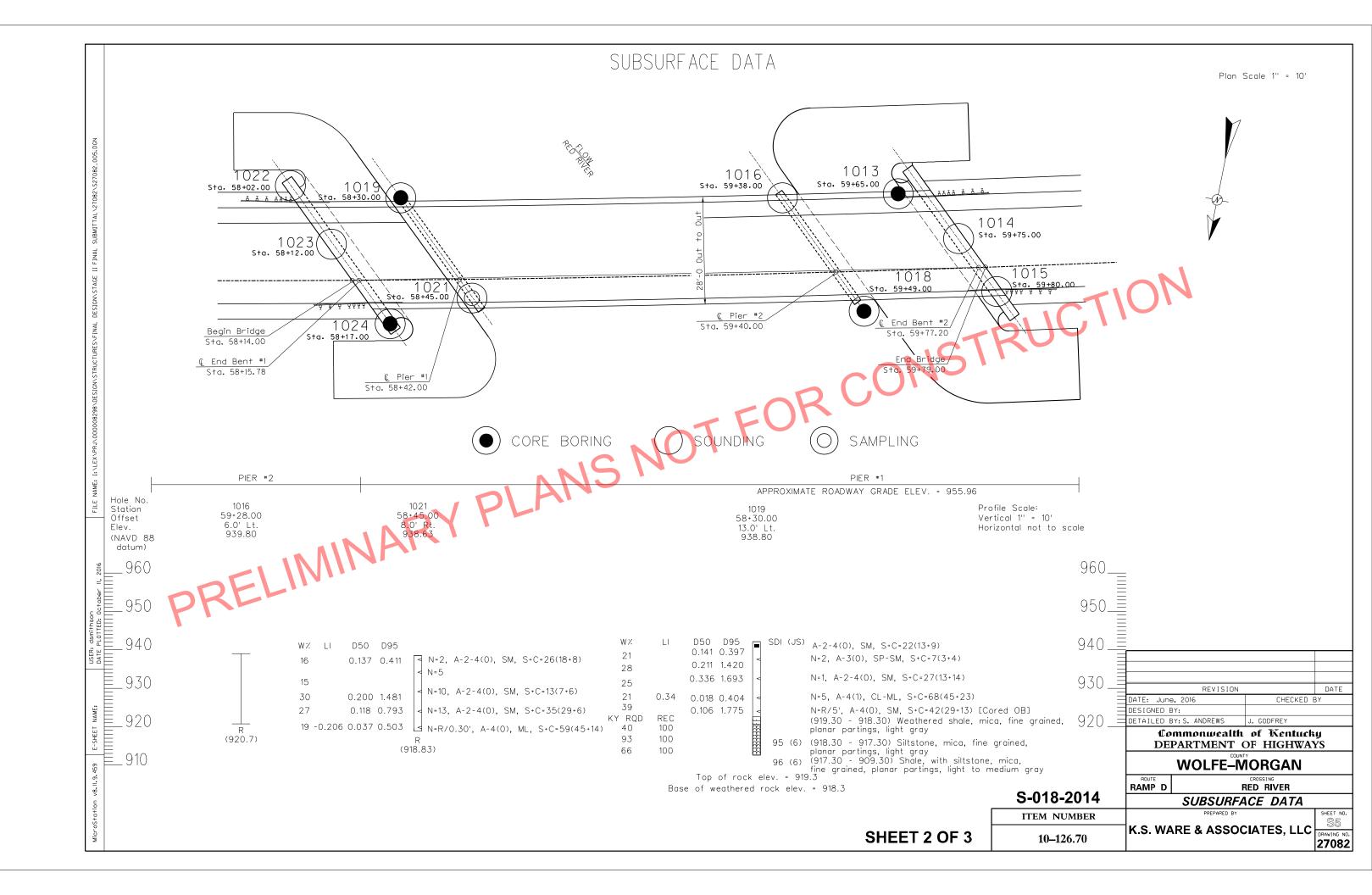
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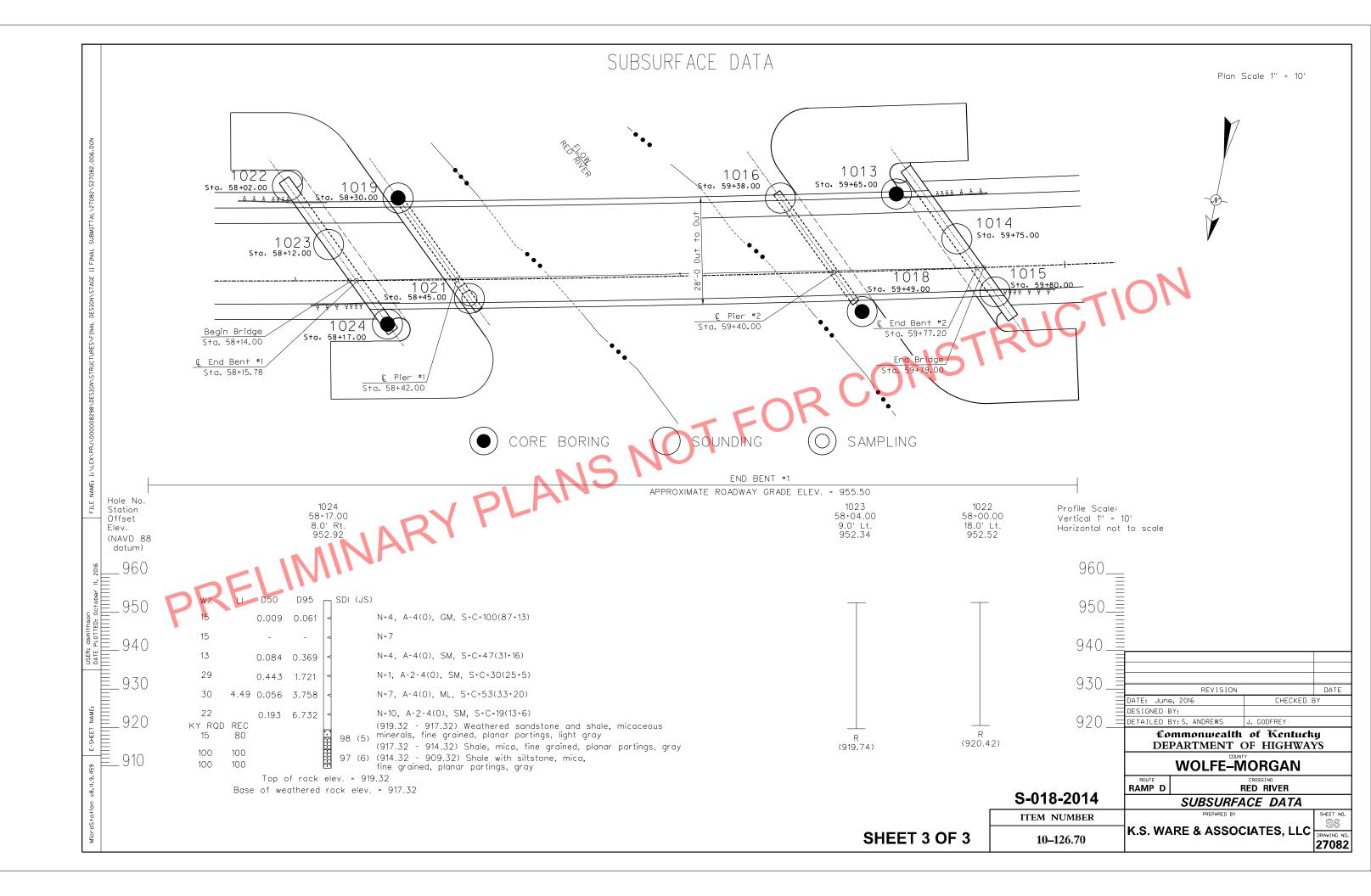
LOCHNER H.W. LOCHNER, INC. LEXINGTON, KENTUCKY

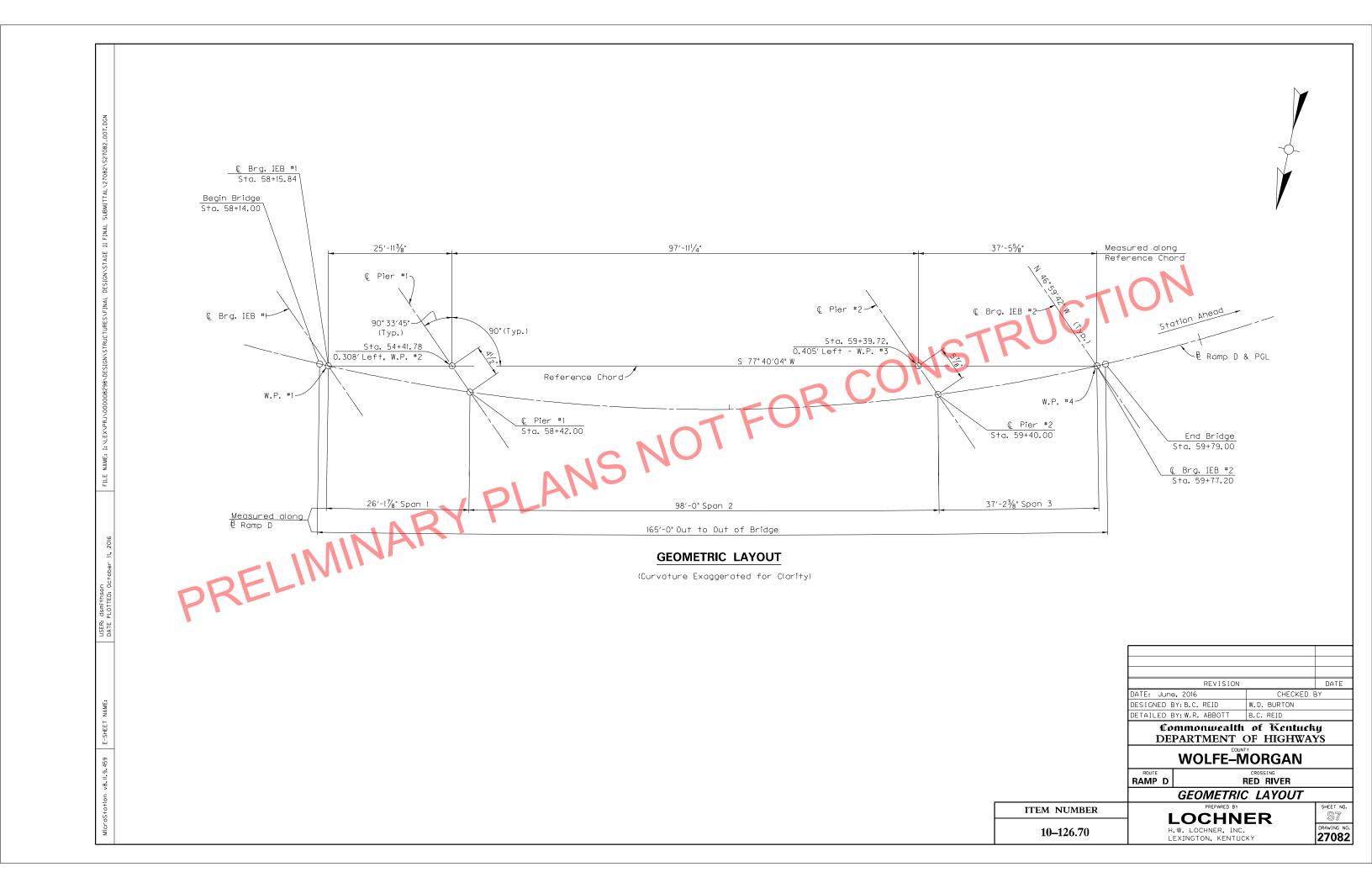


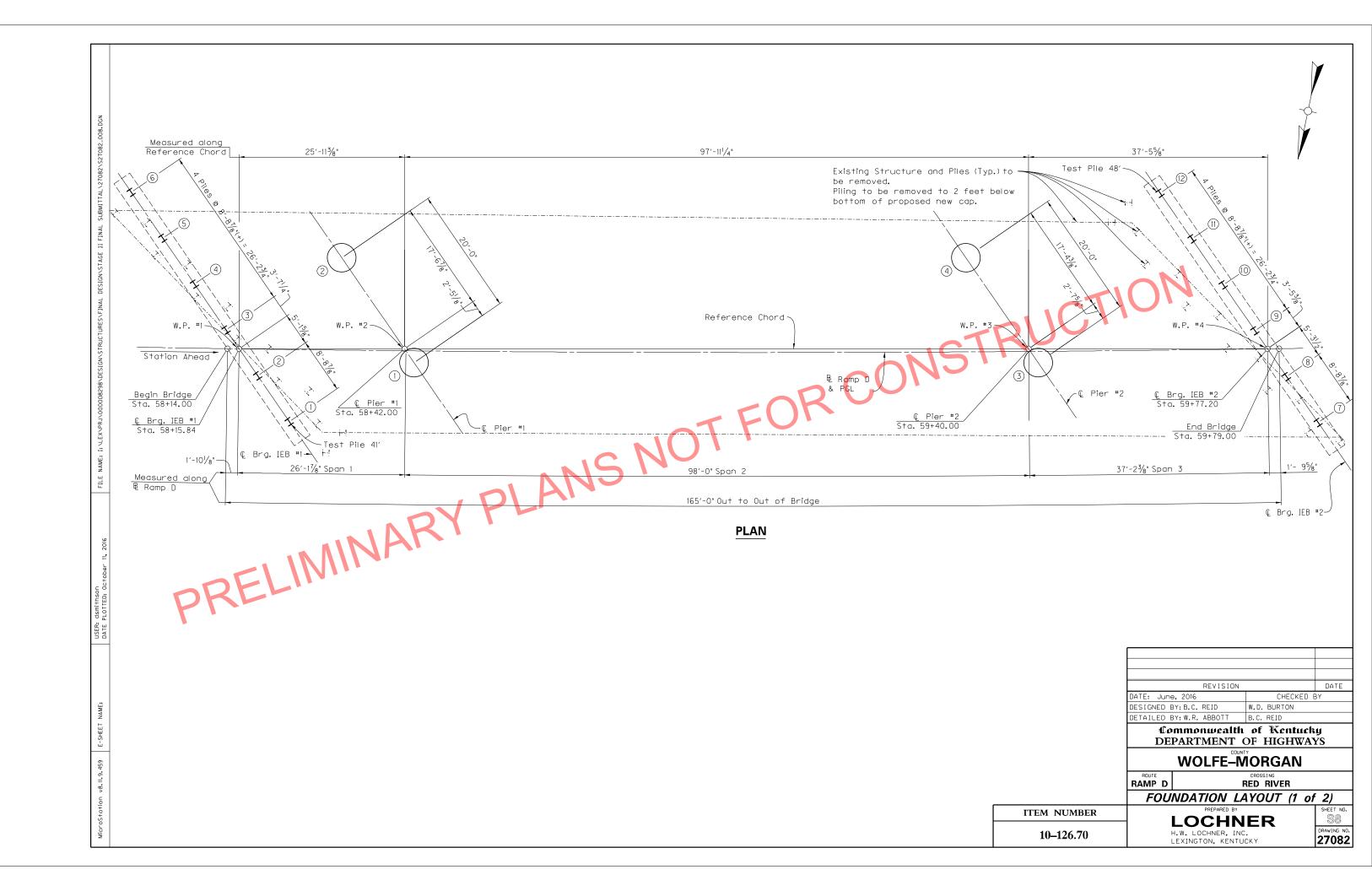












		ord for P iles – IE	oint Bear B #1	ing
Pile No.	Pile Cut-off Elevation (Feet)	Pile Length in Place (Feet)	Point of Pile Elevation as Driven (Feet)	Design Axial Load (Tons)
1	948.633			43
2	948.633			43
3	948.633			43
4	948.633			43
5	948.633			43
6	948.633			43

		ord for P iles – IE	oint Bear B #2	ing
Pile No.	Pile Cut-off Elevation (Feet)	Pile Length in Place (Feet)	Point of Pile Elevation as Driven (Feet)	Design Axial Load (Tons)
7	950.364			43
8	950.364			43
9	950.364			43
10	950.364			43
- 11	950.364			43
12	950.364			43

Slope Protection

Slope protection will be required at the bridge meeting the requirements of sections 703 and 805 of the Standard Specifications of Road and Bridge Construction, current edition. The limits, size, and thickness of the slope protection shall be as specified in HEC 23. Place a Type I Geotextile Fabric, in accordance with Sections 214 and 843 of the Standard Specifications of Road and Bridge Construction, current edition, between the embankment and the slope protection.

Miscellaneous

Construction of the Ramp D Bridge may require removal of existing pilling at the abutments and pier locations. Existing remnants of wood pilling was evident below the existing bridge deck.

	Drilled Shaft Record													
Drill Shaft No.	Top of Drilled Shaft Common Elevation (Design)	Top of Drilled Shaft Common Elevation (Actual)	Top of Drilled Shaft Solid Rock Elevation (Design)	Top of Drilled Shaft Solid Rock Elevation (Actual)	Bottom of 66"Steel Casing Elevation (Design)	Bottom of 66"Steel Casing Elevation (Actual)	Bottom of Drilled Shaft Solid Rock Elevation (Design)	Bottom of Drilled Shaft Solid Rock Elevation (Actual)	Total Length of Drilled Shaft Commom	Total Length of Drilled Shaft Solid Rock				
					PIER #I	1	1		1					
1	937.300		918.300		918.300		910.300							
2	937.300		918.300		918.300		910.300							
				F	PIER #2									
3	935.600		917.300		917.300		909.300							
4	935.600		917.300		917.300		909.300							

Hammer Criteria

A single acting diesel hammer with rated energy between 23 and 40 kips-ft is recommended to adequately drive the H-piles to practical refusal without encountering excessive blow counts or damaging piles. The use of hammers other than single-acting diesel may require different energies. The contractor shall submit the proposed pile driving system to the Department for approval prior to the installation of the first pile. Approval of the pile driving system by the Engineer will be subject to satisfactory field performance of the pile driving procedures.

Drilled Shaft Foundation for Piers

See Sheets S12 and S13 for Drilled Shaft Notes

Field Data

For each pile, the Project Engineer shall record the following on this sheet: Pile Length in Place and Point of Pile Elevation as Driven.

Submit this record to: Kentucky Transportation Cabinet
Director, Division of Structural Design
Room #322
200 Mero Street
Frankfort, KY 40622

This pile record does not replace other pile records the Project Engineer is required to keep and submit.

Use HP 12x53 in accordance with BPS-003, c.e.

Driving Criteria

DRIVING CRITERIA: Drive point bearing piles to practical refusal.

PRACTICAL REFUSAL: For this project minimum blow requirements are reached after total penetration becomes ½ of less for 10 consecutive blows, practical refusal is obtained after the pile is struck an additional 10 blows with total penetration of ½ or less. Advance the production piling to the driving resistances specified above and to depths determined by test pile(s) and subsurface data sheet(s). Immediately cease driving operations if the pile visibly yields or becomes damaged during driving. If hard driving is encountered because of dense strata or an obstruction, such as a boulder before the pile is advanced to the depth anticipated, the Engineer will determine if more blows than the average driving resistances specified for practical refusal is required to further advance the pile. Drive additional production and test piles if directed by the Engineer.

Definitions of Terms

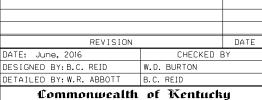
PILE CUT-OFF ELEVATION: Elevation of the top of pile in the finished structure.

PILE LENGTH IN PLACE: Actual pile length below the Pile Cut-Off Elevation in the finished structure.

POINT OF PILE ELEVATION AS DRIVEN: Actual point of pile elevation in the finished structure.

DESIGN AXIAL LOAD: Load carried by each pile as estimated from structural design calculations for Factored LRFD Loadings.

CALCULATED FIELD BEARING: Contrary to Section 604.03.07 of the Standard Specifications, in place bearing values are not required for piles bearing on rock when driven to practical refusal.



DEPARTMENT OF HIGHWAYS

WOLFE-MORGAN

RAMP D

FOUNDATION LAYOUT (2 of 2)

RED RIVER

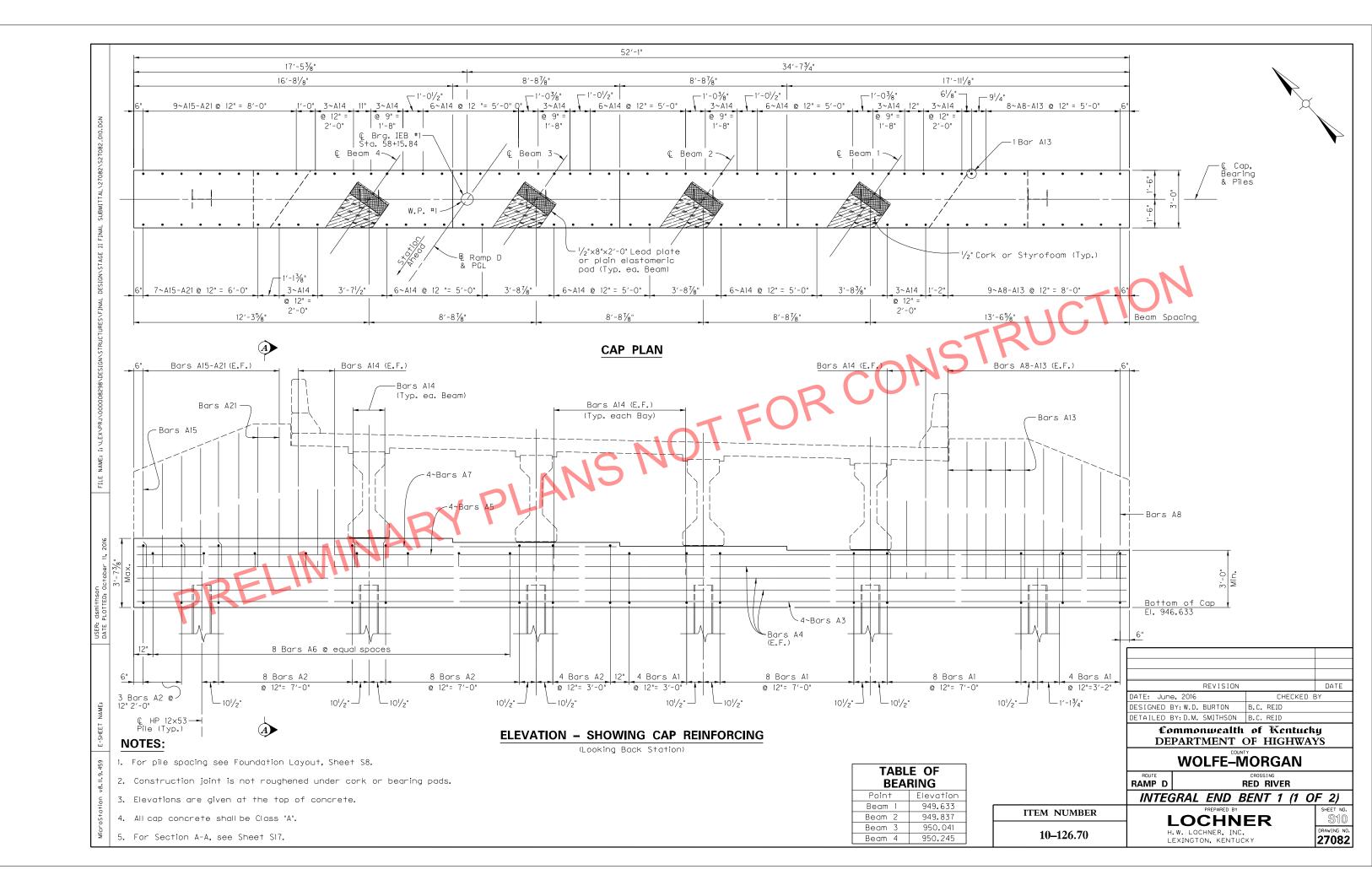
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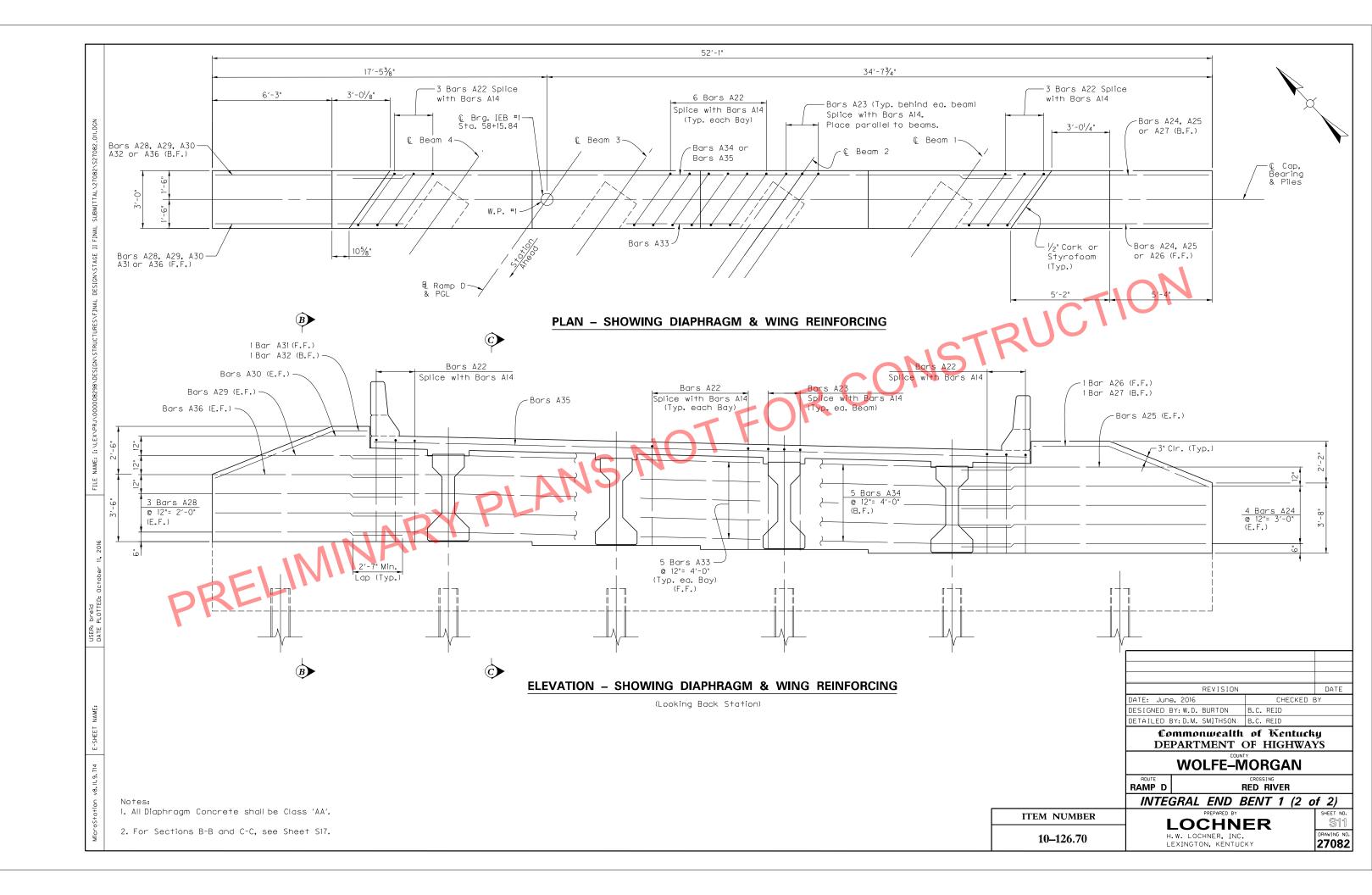
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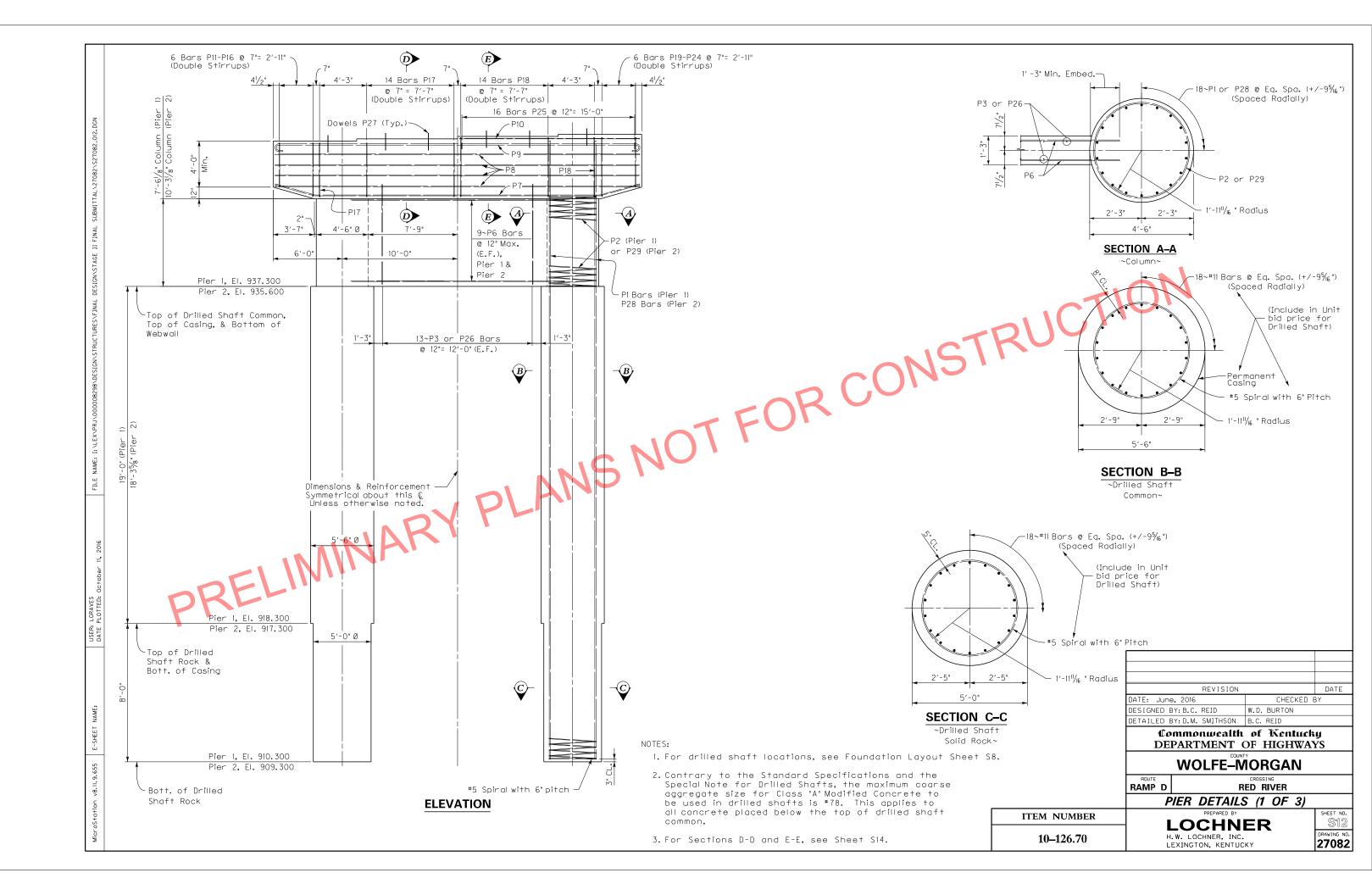
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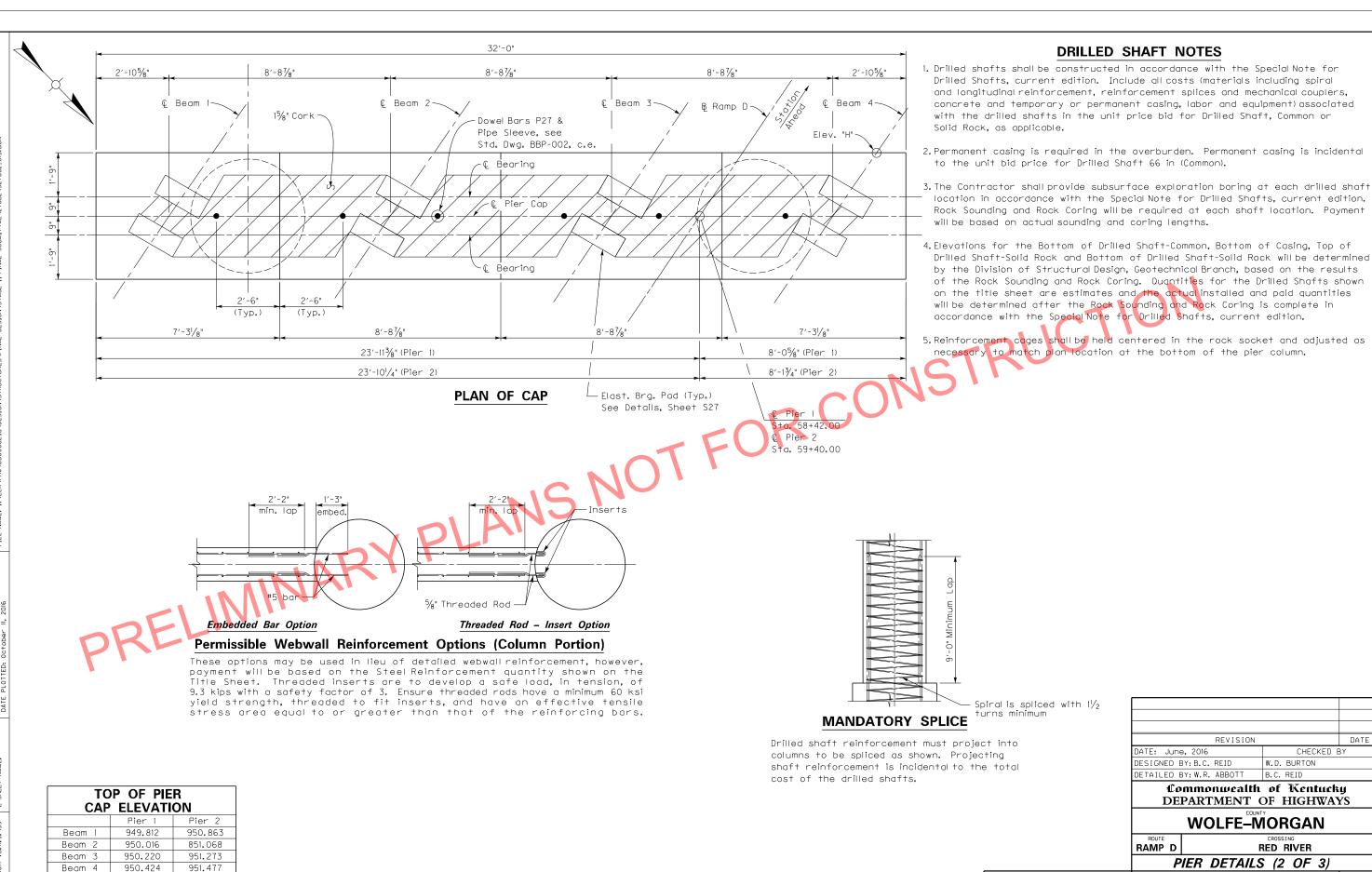
H. W. LOCHNER, INC.
LEXINGTON, KENTUCKY











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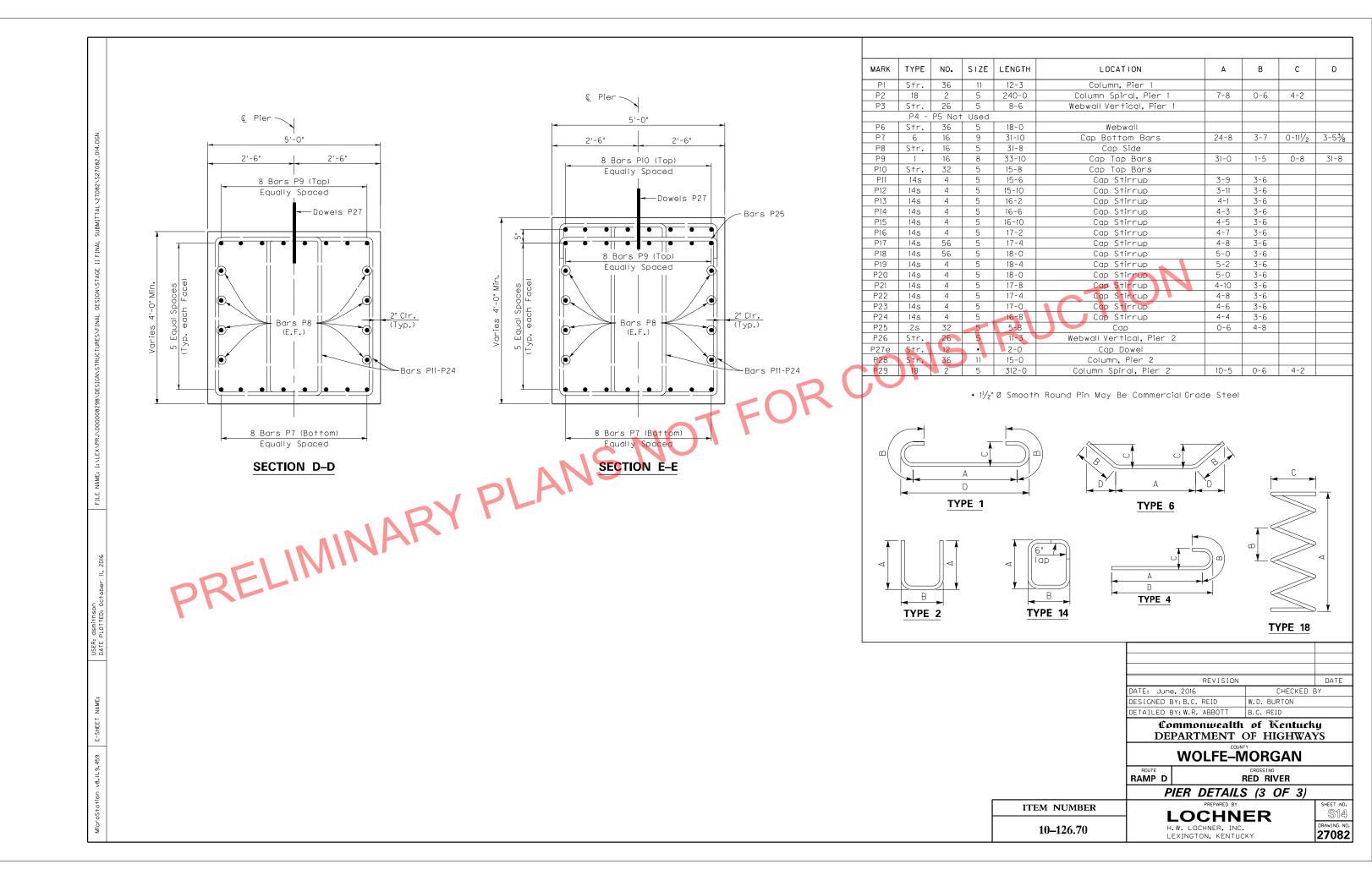
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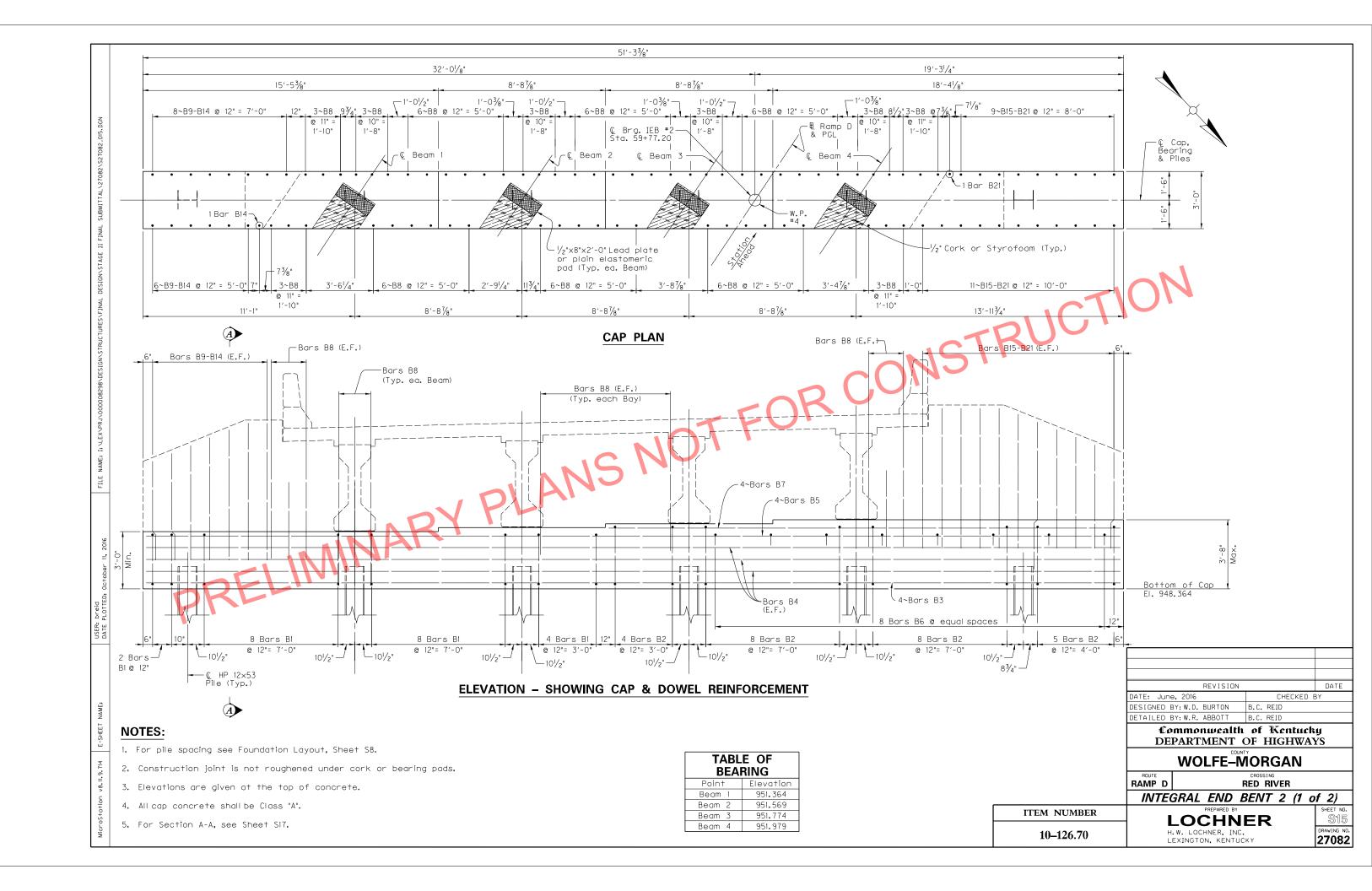
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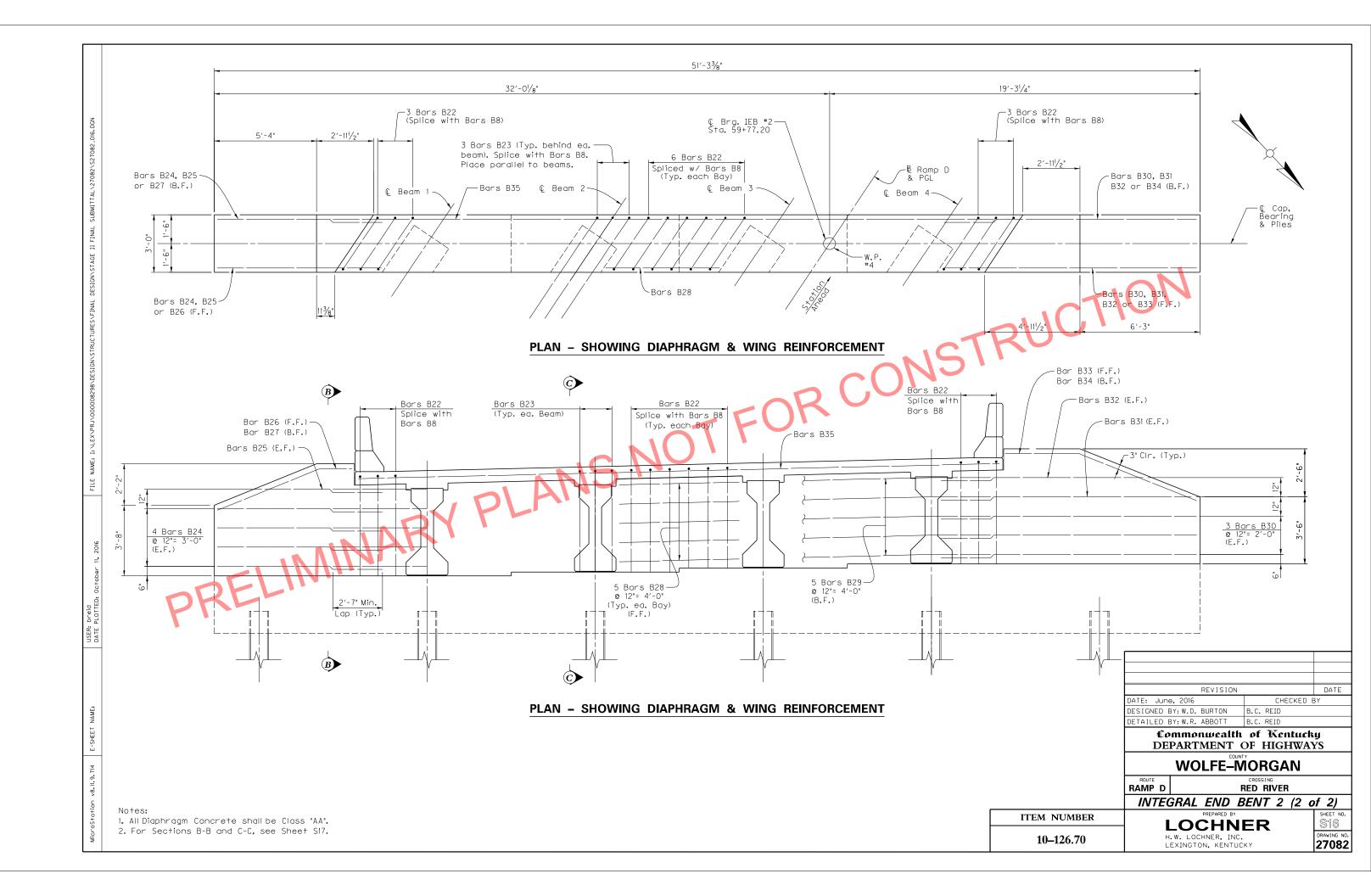
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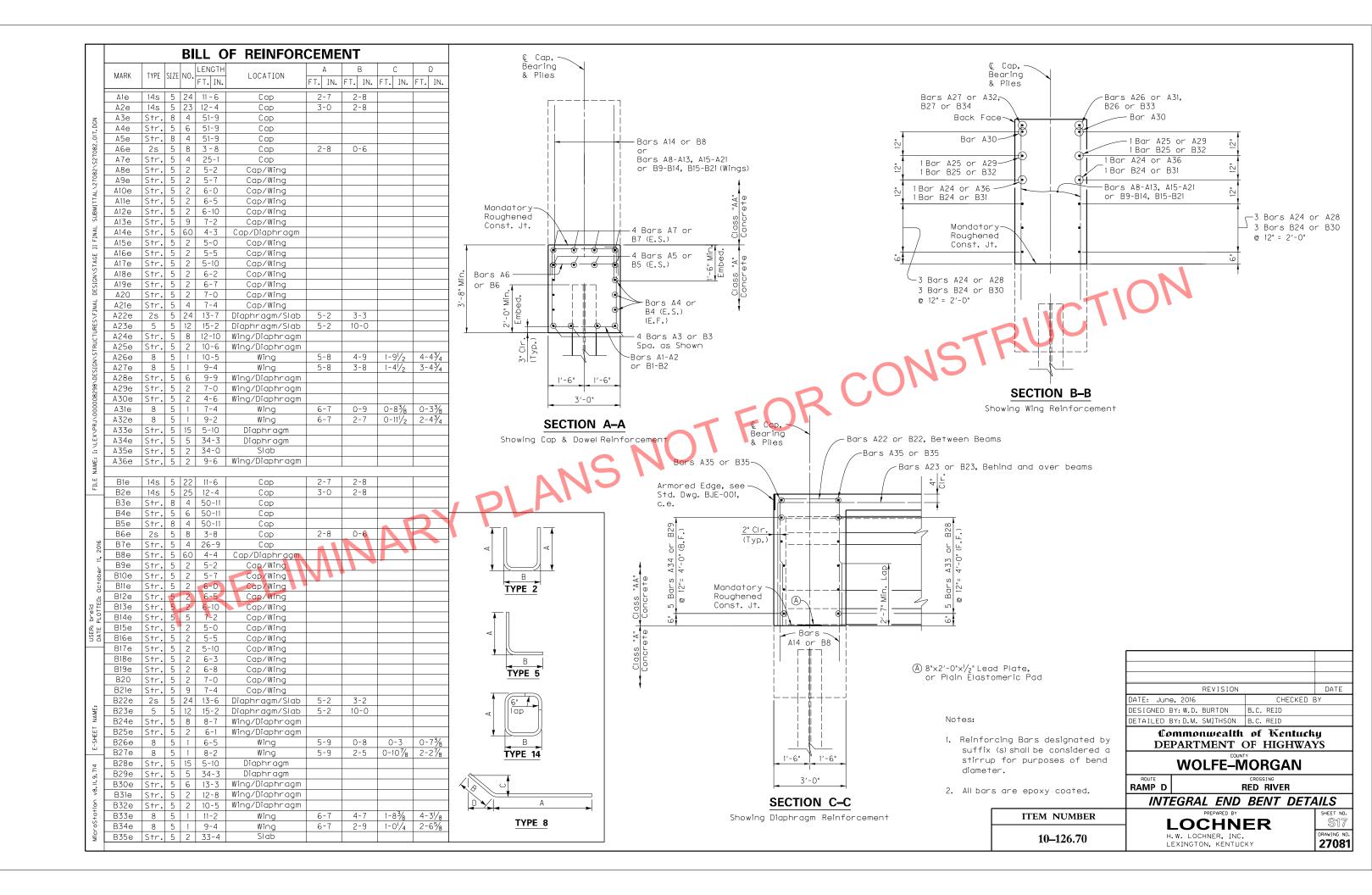
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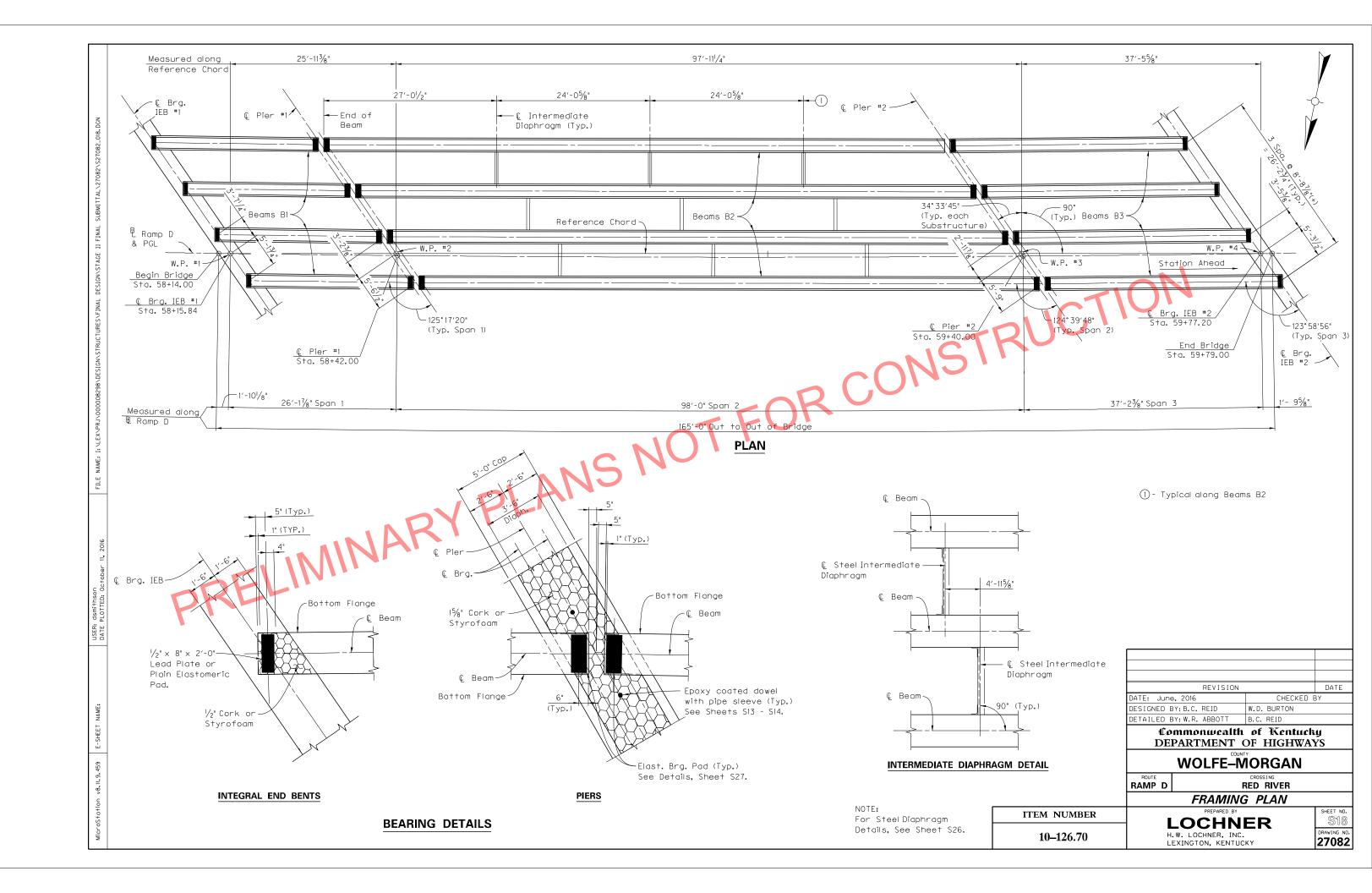
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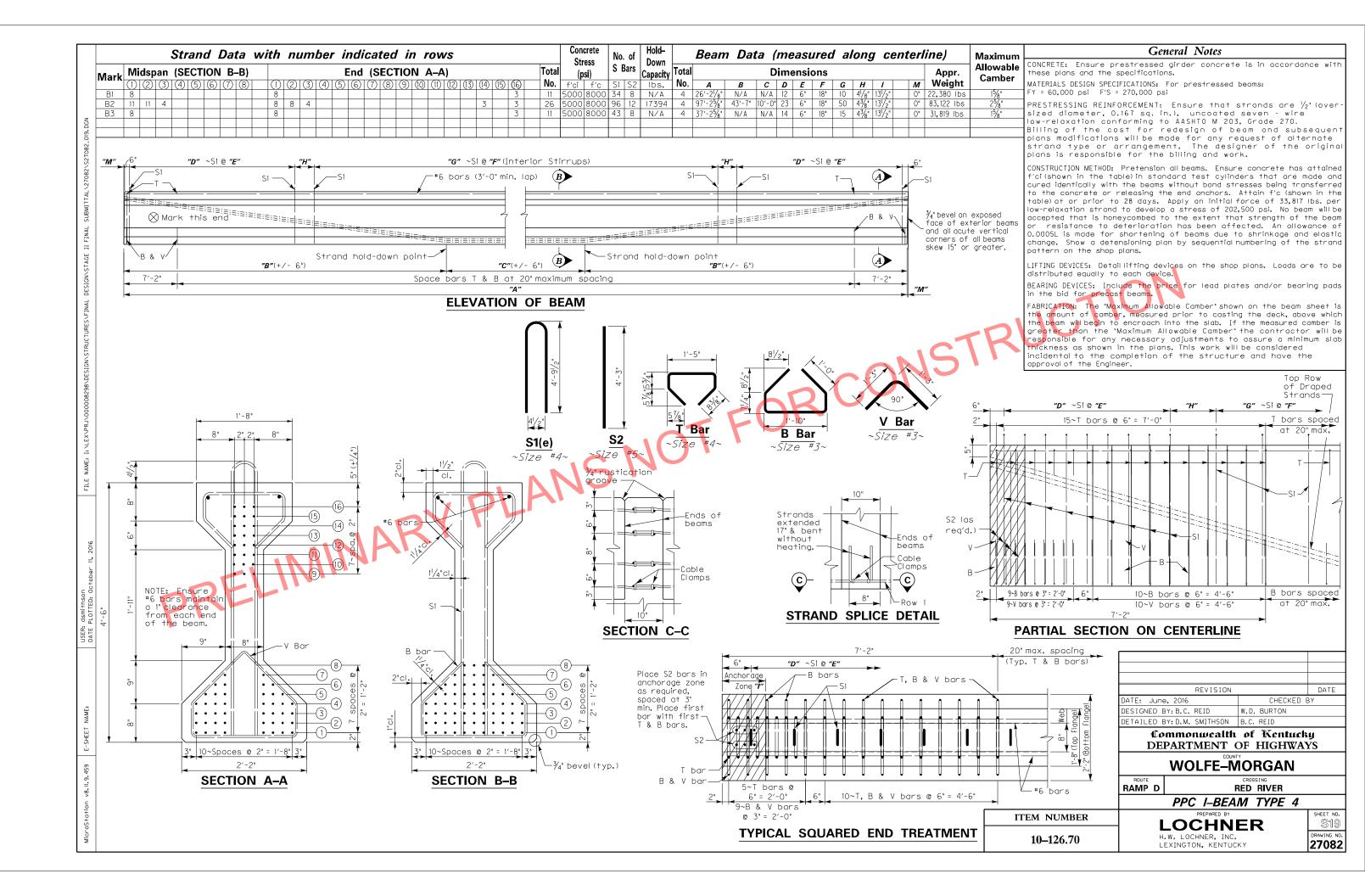


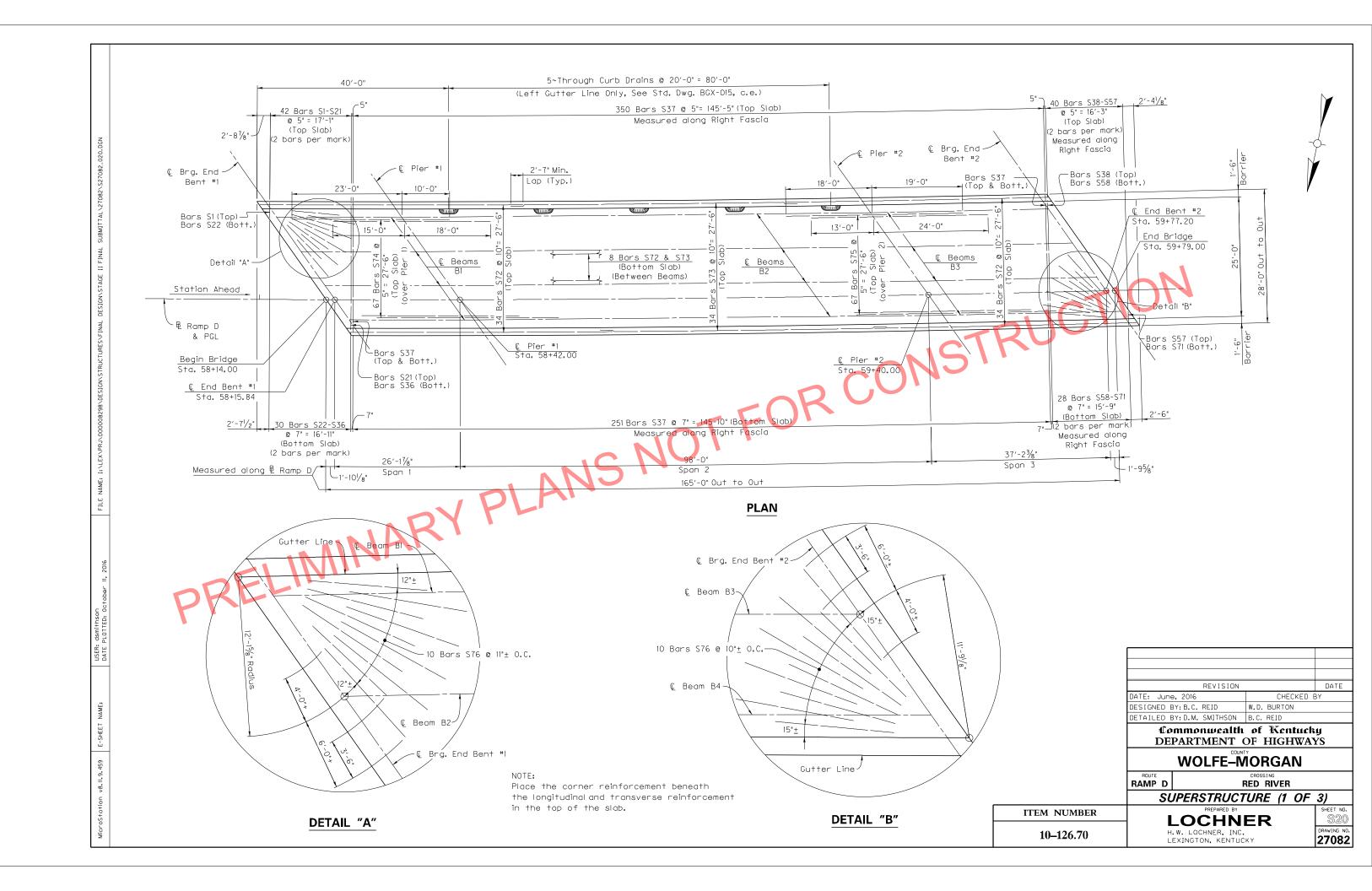


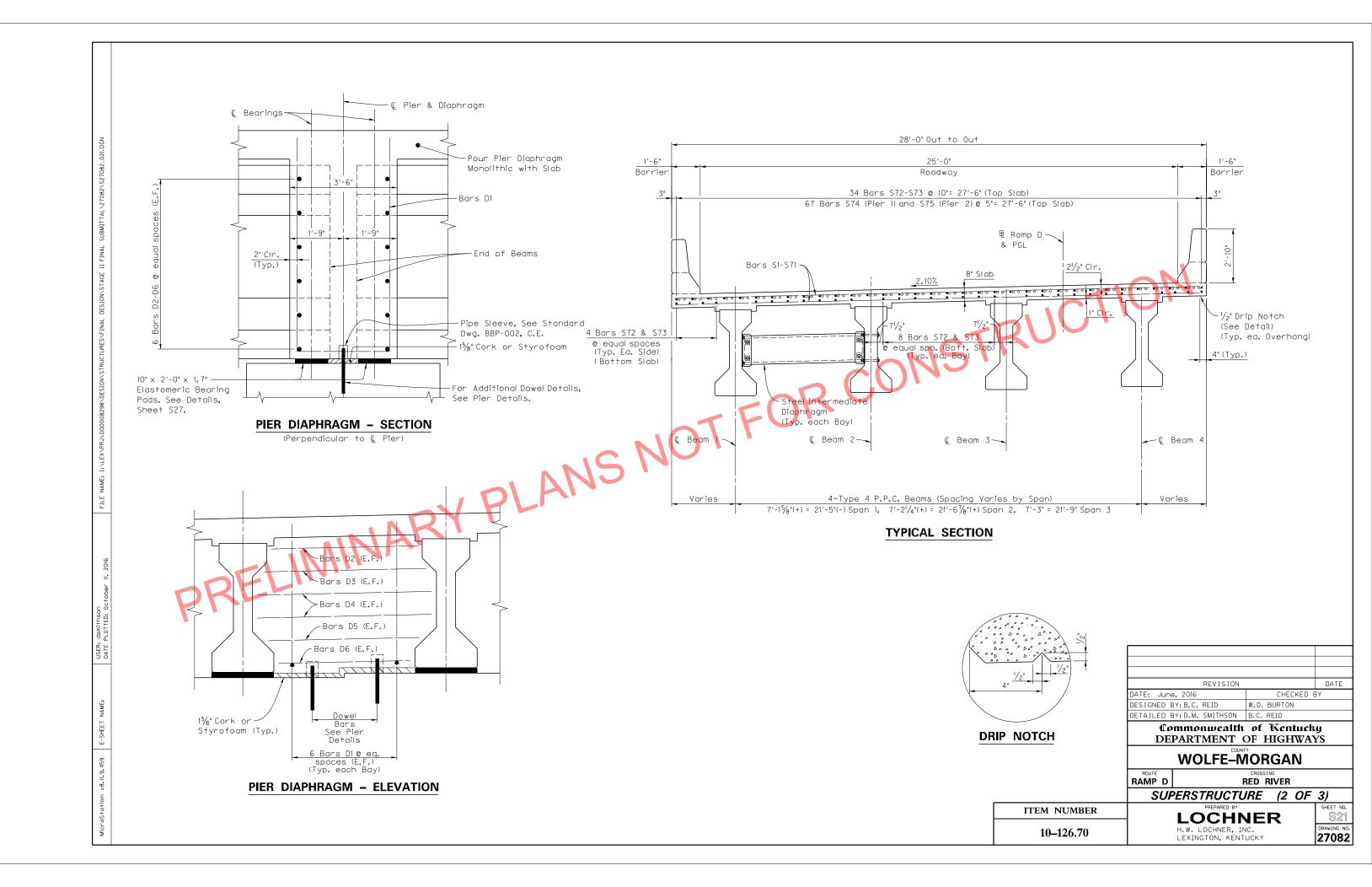








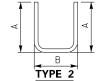




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S4e	Str.	5	2	6	9	Top Slab								
S5e	Str.	5	2	7	11	Top Slab								
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D1e	2s	5	36	13	0	Pier Diaphragm	4	-11	3	2					
D2e	Str.	5	12	5	1	Pier Diaphragm									
D3e	Str.	5	12	5	8	Pier Diaphragm									
D4e	Str.	5	24	6	1	Pier Diaphragm									
D5e	Str.	5	12	5	3	Pier Diaphragm									
D6e	Str.	5	12	4	7	Pier Diaphragm									



NOTE:

All Reinforcing Bars are Epoxy Coated.

REVISION		DATE
DATE: June, 2016	CHECKED E	3 Y
DESIGNED BY: B.C. REID	W.D. BURTON	
DETAILED BY: D.M. SMITHSON	B.C. REID	
Cammanusalth	af Wantuch	44

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

WOLFE-MORGAN

RAMP D RED RIVER

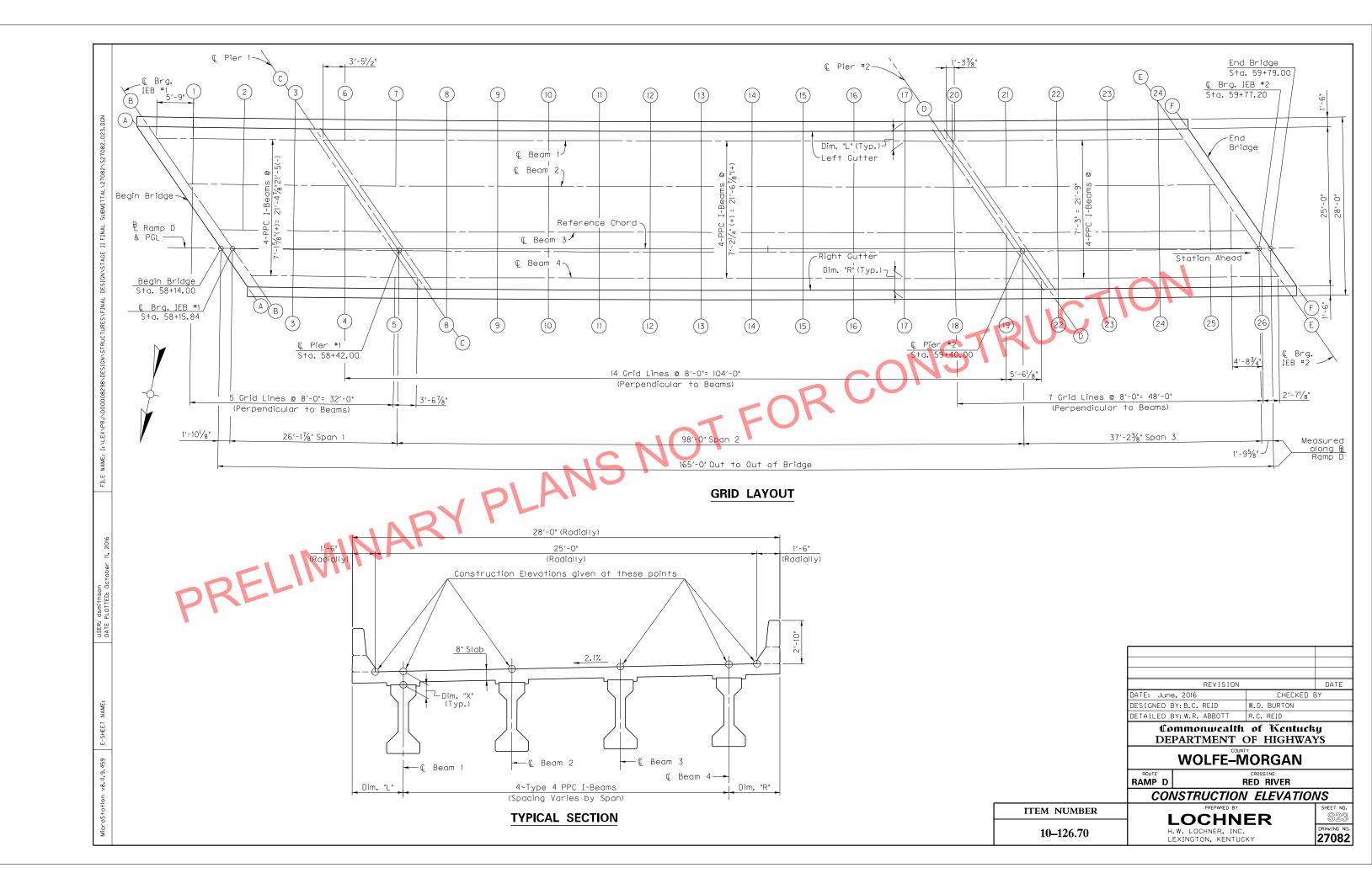
SUPERSTRUCTURE (3 OF 3)

10–126.70

LOCHNER

H. W. LOCHNER, INC.
LEXINGTON, KENTUCKY

SHEET NO. \$22 DRAWING NO. 27082



Skew Line AA Skew Line BB Skew Line CC Skew Line DD Skew Line EE Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 5 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	 	Left Gutter 954.942 954.961 955.243 956.300 956.701 956.720	Const. Elev. 954.994 955.014 955.292 956.347	© Beam I Top of Beam	Dim. "X"	Const. Elev.	£ Beam 2 Top of Beam	Dim.	Const.	Deam 3			î Beam 4		Right	Dim "R"
Skew Line AA Skew Line BB Skew Line CC Skew Line DD Skew Line EE Skew Line FF Grid Line 1 Grid Line 2 Grid Line 3 Grid Line 5 Grid Line 5 Grid Line 6 Grid Line 7 Grid Line 8 3.	 3.300	954.942 954.961 955.243 956.300 956.701	954.994 955.014 955.292 956.347			Elev.			Const.	Top of	D1	1			ı kıaht	Dim. "R"
Skew Line BB Skew Line CC Skew Line DD Skew Line EE Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 4 Grid Line 5 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	 3.300	954.961 955.243 956.300 956.701	955.014 955.292 956.347			955.198		"X"	Elev.	Beam	Dim. "X"	Const. Elev.	Top of Beam	Dim. "X"	Guťter	(F†.)
Skew Line CC Skew Line DD Skew Line EE Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	 3.300	955.243 956.300 956.701	955.292 956.347						955,402			955,606			955.658	
Skew Line DD Skew Line EE Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	 3.300	956.300 956.701	956.347			955.218			955.422			955.626			955.677	
Skew Line EE Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	 3.300	956.701				955.498			955.704			955.909			955.957	
Skew Line FF Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.			000 740			956.551			956.756			956.961			957.007	
Grid Line 1 3. Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	3.300	956.720	956.746			956.951			957.156			957.361			957.405	
Grid Line 2 3. Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.			956.766			956.970			957.175			957.380			957.425	
Grid Line 3 3. Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.	3.284	955.037	955.075			955.225										
Grid Line 4 Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.		955.124	955.161			955.311			955.461							
Grid Line 5 Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.		955.209	955.245			955.396			955.548			955.697			955.734	3.310
Grid Line 6 3. Grid Line 7 3. Grid Line 8 3.						955.482			955.633			955.784			955.821	3.303
Grid Line 7 3. Grid Line 8 3.												955.870			955.906	3.284
Grid Line 8 3.	3.249	955.313	955.345													
		955.427	955.457			955.593										
Grid Line 9 3.		955.537	955.566			955.704			955.841			955.977			956.009	
C		955.643	955.673			955.812			955.951			956.089			956.122	3.350
		955.742	955.771			955.916			956.058			956.198			956.232	3.385
	3.017	955.834 955.918	955.864 955.950			956.013 956.103			956.158 956.253			956.303 956.401			956.339 956.439	3.409 3.422
		955,995	956,028			956.103			956.253			956.401			956, 439	3.423
		956.066	956,100			956.262			956.421			956.577			956.617	3.414
		956.130	956.166			956.331			956,494			956.655			956.696	3.393
	3.066	956.190	956.228			956.395			956.560			956.726			956.767	3.360
		956.248	956.287			956.456			956.624			956.790			956.832	3.317
						956.514			956.684			956.852			956.893	3.262
									956.750			956.911			956.952	3.196
	3.148	956.327	956.361													-
	3.119	956.414	956.448			956.599										
Grid Line 22 3.	3.101	956.500	956.533			956.686			956.838			956.990			957.024	3.149
Grid Line 23 3.	3.095	956.585	956.618			956.772			956.924			957.076			957.111	3.155
Grid Line 24 3.	3.099	956.670	956.704			956.857			957.010		. 1	957.162			957.197	3.151
Grid Line 25						956.942			957.094		A	957.247			957.281	3.135
Grid Line 26												957.332			957.366	3.108
Grid Line 26	E		M'	N	AF	24	P									

NOTES FOR ELEVATIONS TAKEN ON PRESTRESSED CONCRETE BEAMS

Take elevations on top of beam at points indicated by the grid layout. The beam elevations are to be read to three decimals and entered into table under "Top of Beam" elevations.

Compute Dimension "X" as follows: "Construction Elevation" minus "Top of Beam" elevation equals Dimension "X". Construction elevations include camber due to weight of concrete slab and barrier. Measuring of Dimension "X" gives the final check on beam tolerances for camber, beam damage and errors in erection that produce reverse combers, sags and unsightly fascia beams.

For setting templates, measure Dimension "X" above top of beam for top of template. Do NOT set template by elevations.

Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor or slab or when taking the "Top of Beam" elevations.

Construct barriers to roadway grade. Do NOT add camber to the barrier.

Note to Engineer: The "Maximum Allowable Camber" shown on the beam sheet is the amount of camber, measured prior to casting the deck, above which the beam will begin to encroach into the slab. If the measured camber is greater than the "Maximum Allowable Camber" the Contractor will be responsible for any necessary adjustments to assure a minimum slab thickness of 8 inches as shown in the plans. This work will be considered incidental to the completion of the structure and must have the approval of the Engineer.

REVISION DATE

DATE: June, 2016 CHECKED BY

DESIGNED BY: B.C. REID W.D. BURTON

DETAILED BY: W.R. ABBOTT B.C. REID

Commonwealth of Kentucky

DEPARTMENT OF HIGHWAYS

WOLFE-MORGAN

RAMP D RED RIVER

CONSTRUCTION ELEVATIONS

ITEM NUMBER

PREPARED BY
SHI

10–126.70





