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- 3. PLAN AND PROFILE
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- CONTOUR MAP
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- 19. BRIDGE EXCAVATION
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- 21. SUPPORTS AND SPACERS FOR REINFORCING STEEL
- 22. SUMMARY OF QUANTITIES
- 23. SURFACING QUANTITIES
- 24-32. TEMPORARY EROSION AND POLLUTION CONTROL

**DESIGN DESIGNATION** 

20

10% 55 mph

AADT (2023) AADT (2043)

DHV D

C of A Clear Zone

- 33. PERMANENT SEEDING
- 34-40. TRAFFIC CONTROL
- 41-48. MAINLINE CROSS SECTIONS

**STATE OF KANSAS** 

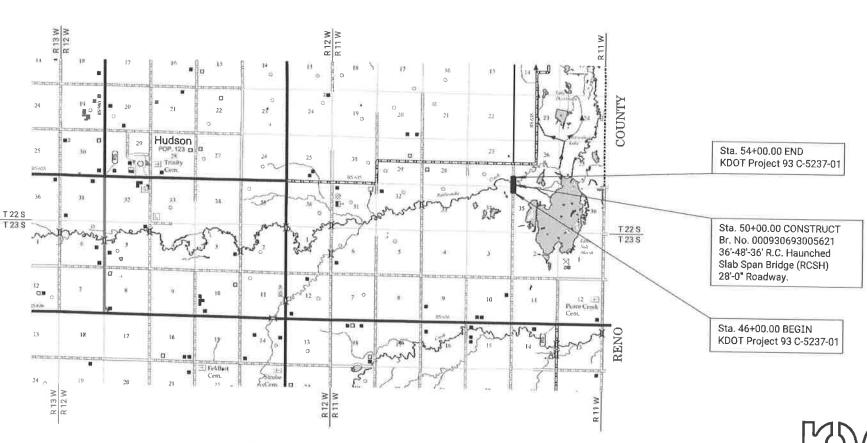
# STATE PROJECT NO, YEAR SHEET NO, SHEET NO, SHEETS TOTAL SHEETS KANSAS 93 C-5237-01 2024 1 48

Federal Aid Project No. BRO-C523(701)

# PLAN AND PROFILE OF PROPOSED 93 C-5237-01

FEDERAL AID PROJECT STAFFORD COUNTY

GRADING BRIDGE SEEDING



26714 8.8/2024 44/845 ONAL

No Scale

NOTE: This project will be closed to

217 N. Dougias, ELLSWORTH, KANSAS 67439 (785) 472-3163 FAX (785) 472-3817

#### CONVENTIONAL SIGNS

COUNTY LINE CENTER LINE OF PROJECT CITY LIMITS TERRACE : STATE OR NATIONAL LINE CULVERTS DROP INLET & STORM SEWER PROPERTY LINE ACCESS CONTROL POWER POLE EXISTING FENCE TELEPHONE POLE MARSH CONSTRUCTION LIMITS HEDGE TREES TRAVELED WAY PROFILE ELEVATION STREAM or CREEK

GROSS LENGTH OF PROJECT

800.00 FT. (Includes Equations)

EXCEPTIONS

Stafford County

NET LENGTH OF PROJECT
NET LENGTH OF BRIDGES
NET LENGTH OF ROAD

800,00 FT. 122,50 FT. 677,50 FT.

0.151 MILES 0.023 MILES 0.128 MILES Philip Dusse 87.20

all traffic during construction.

LOCAL PUBLIC OFFICIAL

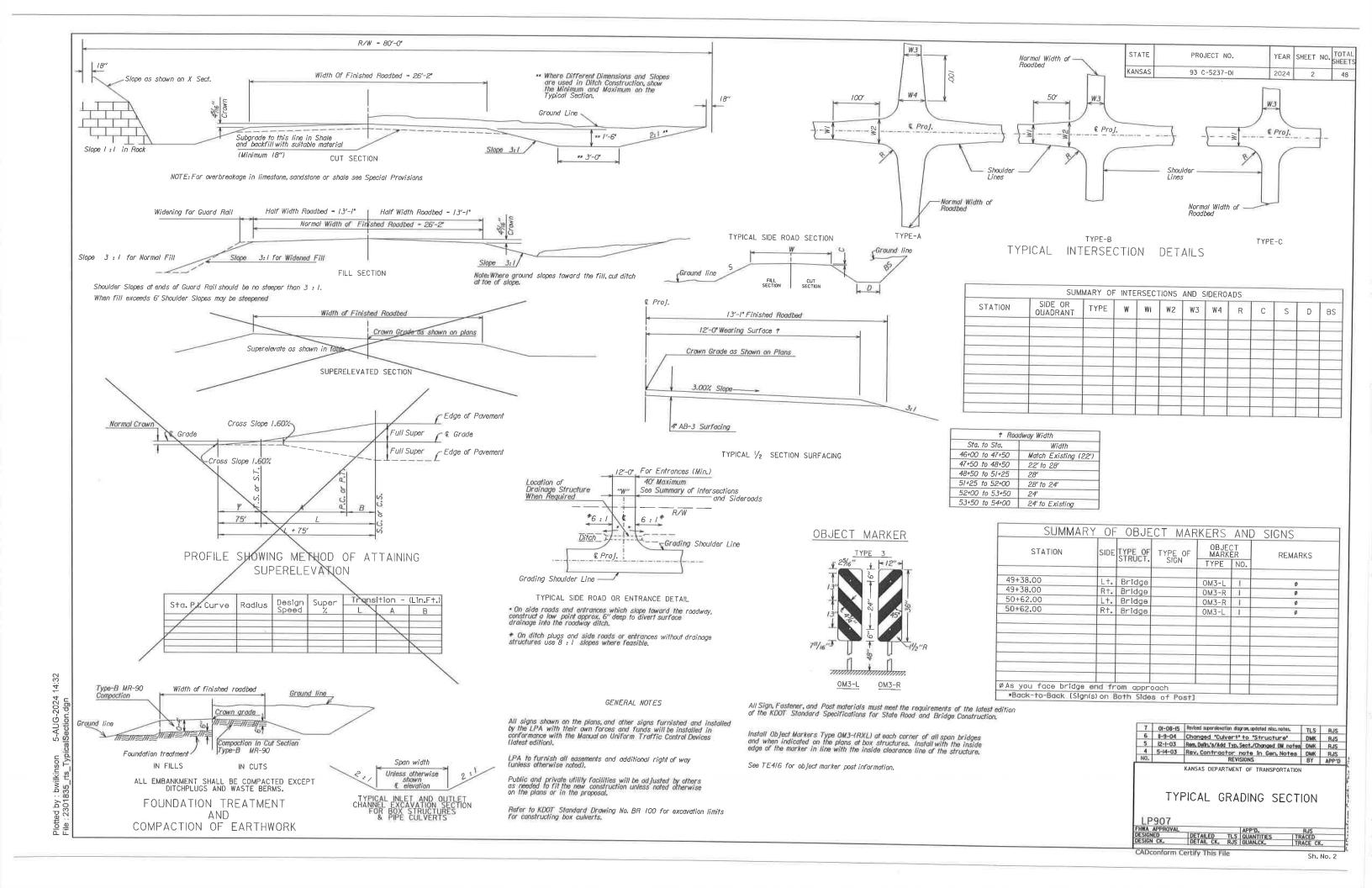
Approved: Aug 20, 2024
Date

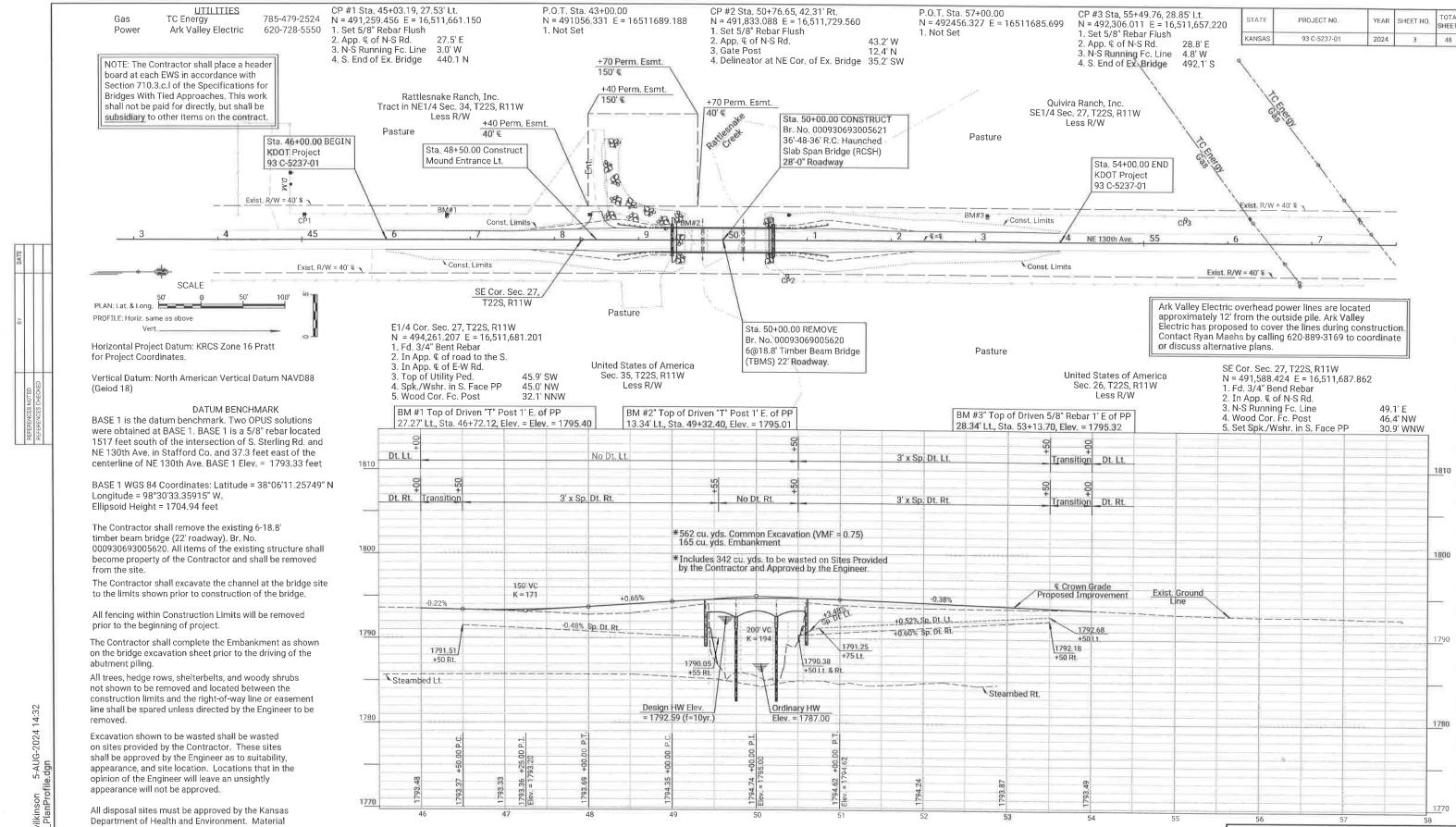
M. M. State Transportation Engineer

DawnMohuske

KANSAS DEPARTMENT OF TRANSPORTATION

Plotted by: bwilkinson 5-AUG-2024 15:





either stockpiled or disposed of in a flood plain

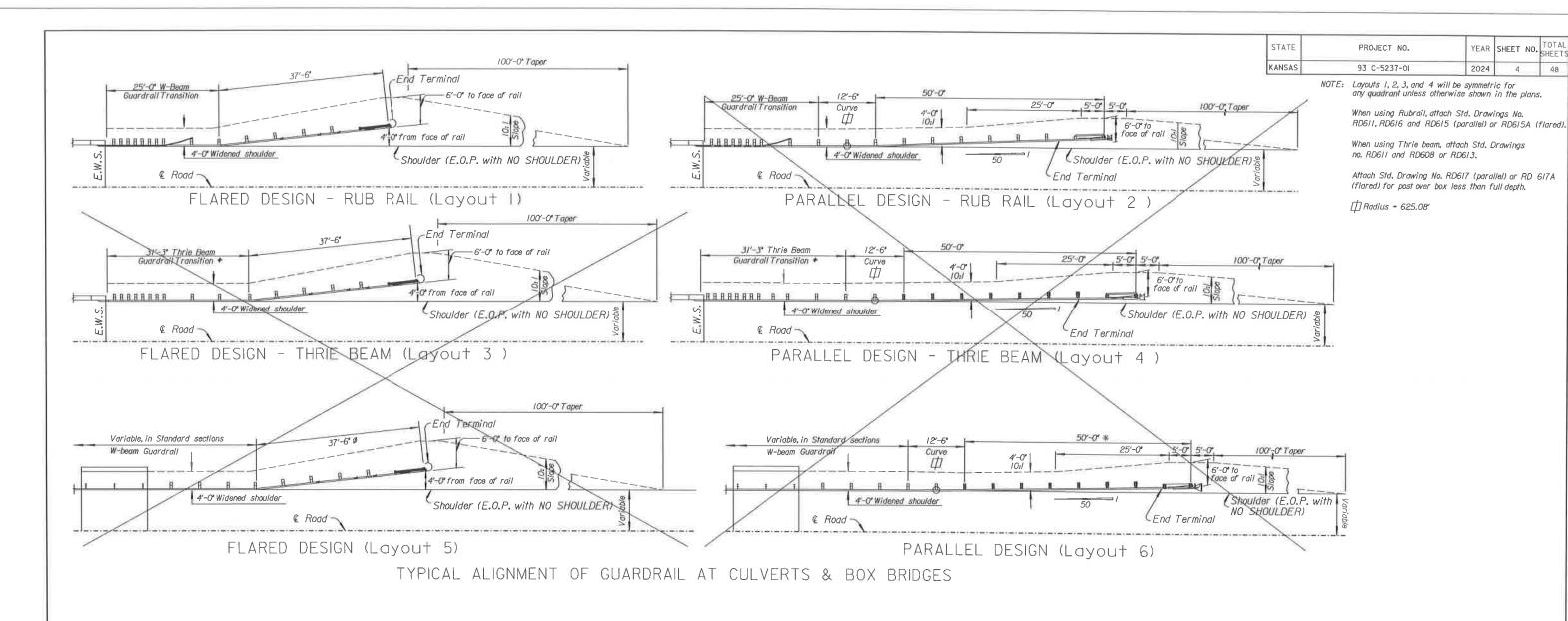
States or wetlands is subject to U.S. Corps of

Engineers permitting regulations.

would require a Kansas State Dept, of Agriculture permit. Any material dumped in waters of the United KANSAS DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

STA. 46+00.00 TO STA. 54+00.00



	ALLOWABLE END TERM						INALS
			La	yout		1.9	Required Standard Drawing
TYPE	1	2	3	4	5	6	Standard Drawing
SRT	X		X		Х		RD606
FLEAT	Χ		Х		Х		RD606
SKT		X		Х		X	RD606

				SUMMAF	RY OF	STEEL	PLATE	GUARDRAIL	<i>n</i> =	
			Lavana	Additional	Total		lor 3	Layout 2,4,or 6		Layout 5
Location ( <i>Quadrant</i> )	Side		Layou†	Standard Sections	Pay Length Lin. Ft.	Gd. Rall End Term. (SRT)	Gd.Rail End Term. (FLEAT)	Gd. Rall. End Term.	Gd. Rall End Term.	
		No	Līn. Ft.	Lln. Ft.	Lin. řt.	Alt. #I Each	Alt. #2 Each	(SKT) Each	(SRT) Alt. #I Each	(FLEAT) Alt. #2 Each
Southwest	Lt.	1	25'-0"		25'-0"	1	1			
Southeast	Rt.	1	25'-0"		25'-0"		1			
5561110007		Ė	25 0		23 0					
Northwest	Lt.	1	25′-0*		25′-0"	1	/			
Northeast	Rt,	1	25'-0"		25′-0″	1	1			
TOTAL		LE	ENGTH		100'-0"	4	4			

\*See Guardrail Auxiliary Details (RD606) for Measurement Details. Does Not Include End Terminal.

.12	02-21-19	Updated per Road Memo 18-02	WFL	MJS
11	10-30-17	Removed X-Life	WFL	MJS
10	01-06-15	Added X-Lite, Removed ET-PLUS	TLS	RJS
9	11-9-05	Added length for Thrie Beam transition	REA	RJS
NO.	DATE	REVISIONS	BY	APP'E

KANSAS DEPARTMENT OF TRANSPORTATION TYPICAL ALIGNMENT OF GUARDRAIL INSTALLATIONS

LP620 FHWA APPROVA DESIGNED DESIGN CK.



END TERMINAL BID ITEM

Guardrail End Terminal (FLEAT)

Guardrail End Terminal (SRT)

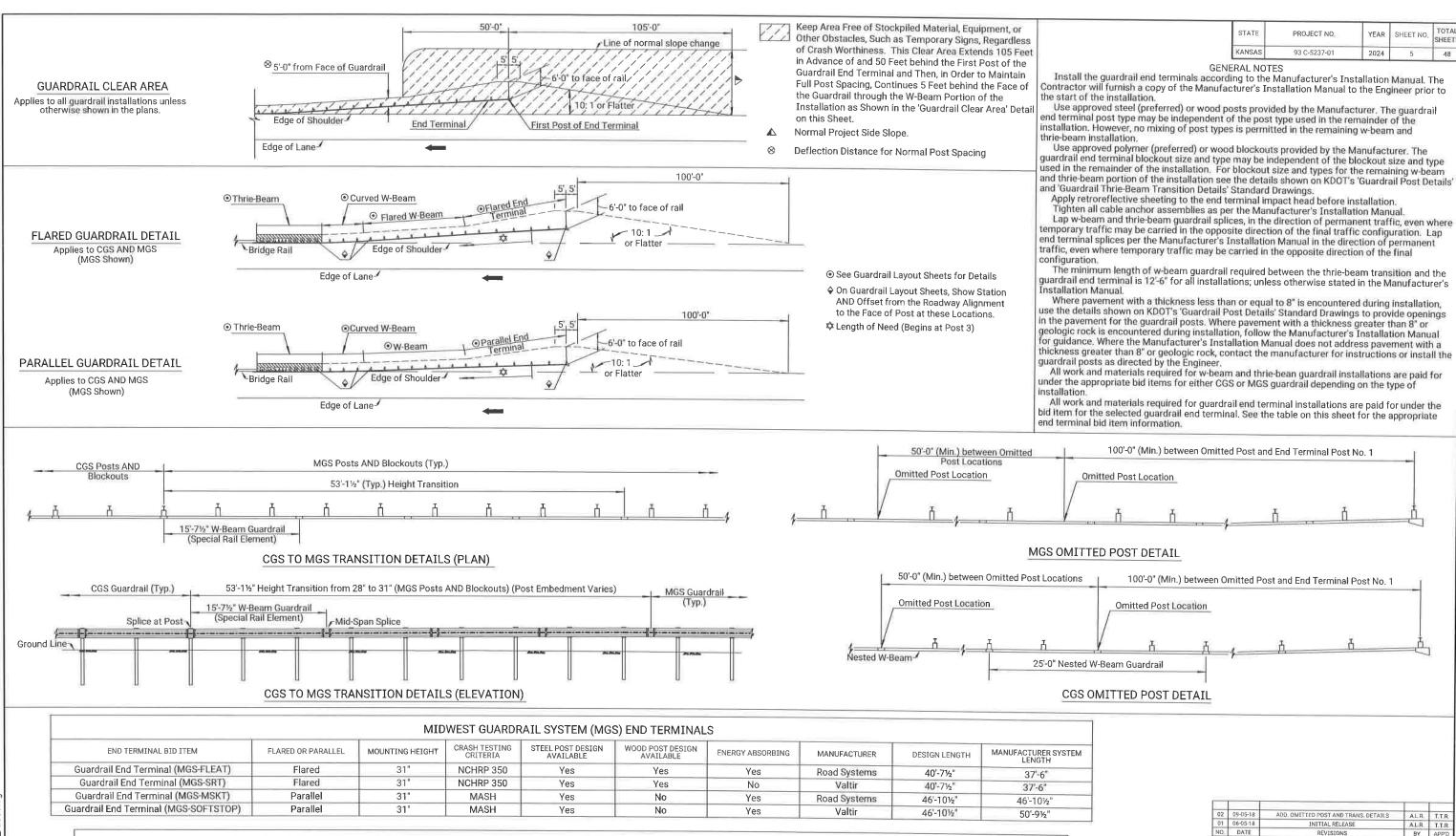
Guardrail End Terminal (SKT)

FLARED OR PARALLEL

Flared

Flared

Parallel



CONVENTIONAL GUARDRAIL SYSTEM (CGS) END TERMINALS

WOOD POST DESIGN AVAILABLE

Yes

Yes

Yes

ENERGY ABSORBING

Yes

No

Yes

MANUFACTURER

Road Systems

Valtir

Road Systems

MANUFACTURER SYSTEM

37'-6"

37"-6"

50'-0"

DESIGN LENGTH

37'-6"

37'-6"

50'-0"

STEEL POST DESIGN AVAILABLE

Yes

Yes

Yes

CRASH TESTING CRITERIA

NCHRP 350

NCHRP 350

NCHRP 350

MOUNTING HEIGHT

28'

28"

28"

DETAILS

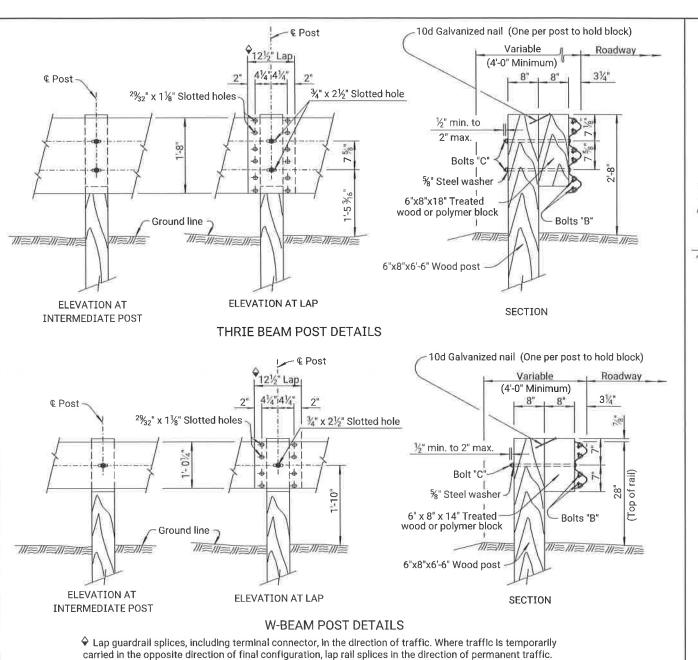
RD606
HWA.APPROVAL 09-25-18 APPD. Scott W.

KANSAS DEPARTMENT OF TRANSPORTATION

**GUARDRAIL AUXILIARY** 

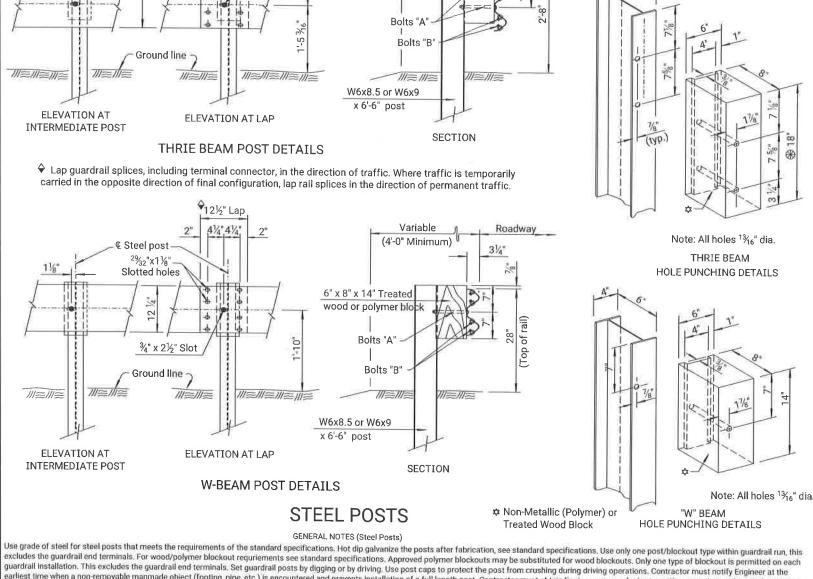
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# **WOOD POSTS**

GENERAL NOTES (Wood Posts)
Give all wood posts and wood blocks a preservative treatment, see standard specifications, Thoroughly saturate all cuts, injuries and bolt holes on wood posts and blocks with preservative, Use only one type of preservative treatment on a project. Use S4S rectangular posts and wood blocks, see standard specifications. Use only one post/blockout type within guardrail run, this excludes the the guardrail end terminals. Set guardrail posts by digging or by driving. Use post caps to protect the post from crushing during driving operations. Contractor must notify Engineer at the earliest time when a non-removable manmade object (footing, pipe, etc.) is encountered and prevents installation of a full length post. Contractor must obtain Engineer approval orlor to cutting post shorter than 6'-6". Approved polymer blockouts may be substituted for wood blockouts. Only one type of blockout is permitted on each guardrail installation. This excludes the guardrail end terminals unless certified by the manufacturer. All dimensions are nominal and are subject to manufacturing tolerances. Excavation including rock, shale, and other materials for erection of Guardrail is subsidiary to various bid items for which payment is made. Where guardrail posts are installed in pavement, form openings in the pavement of the quardrail posts.



earliest time when a non-removable manmade object (footing, pipe, etc.) is encountered and prevents installation of a full length post. Contractor must obtain Engineer approval prior to cutting post shorter than 6'6' except as allowed on Standard Drawing RD617. All dimensions are nominal and are subject to manufacturing tolerances. Excavation including rock, shale, and other materials for erection of Guardrail is subsidiary to various bid items for which payment is made. Where guardrail posts are installed in payement, form openings in the payement for the guardrail posts.

Oval shoulder

**BOLT & NUT DETAILS** 

**BOLT SIZE SCHEDULE** 

8 1/2

1 1/4"

18"

Bolt

В

Variable

(4'-0" Minimum)

6" x 8" x 18" Treated wood or polymer block

34" x 21/2" Slot

STATE

KANSA

Roadway

31/4"

PROJECT NO.

93 C-5237-01

Transition Section Details.

Galvanize all bolts, nuts, and washers in accordance

REVISIONS

KANSAS DEPARTMENT OF TRANSPORTATION

**GUARDRAIL POST** 

**DETAILS** 

S.W.K.

SWK

with the KDOT's Standard Specifications

RD611

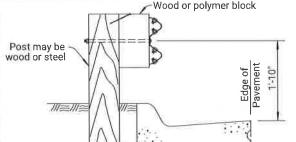
KDOT Graphics Certified

YFAR

2024

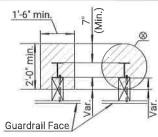
See Standard Drawing RD613 for Thrie-Beam

SHEET NO.



DETAIL OF PLACEMENT AT CURB

Note: When face of guardrail is aligned with the face of a curb, measure the height of rail from the pavement surface at the curb/pavement joint as shown. Use a laydown type curb where the face of the guardrail is not located at the face of the curb.



POSTS IN PAVEMENT PLAN (ALTERNATE GEOMETRIES) Applies to All Wood and All Steel Posts (Steel Posts Shown)

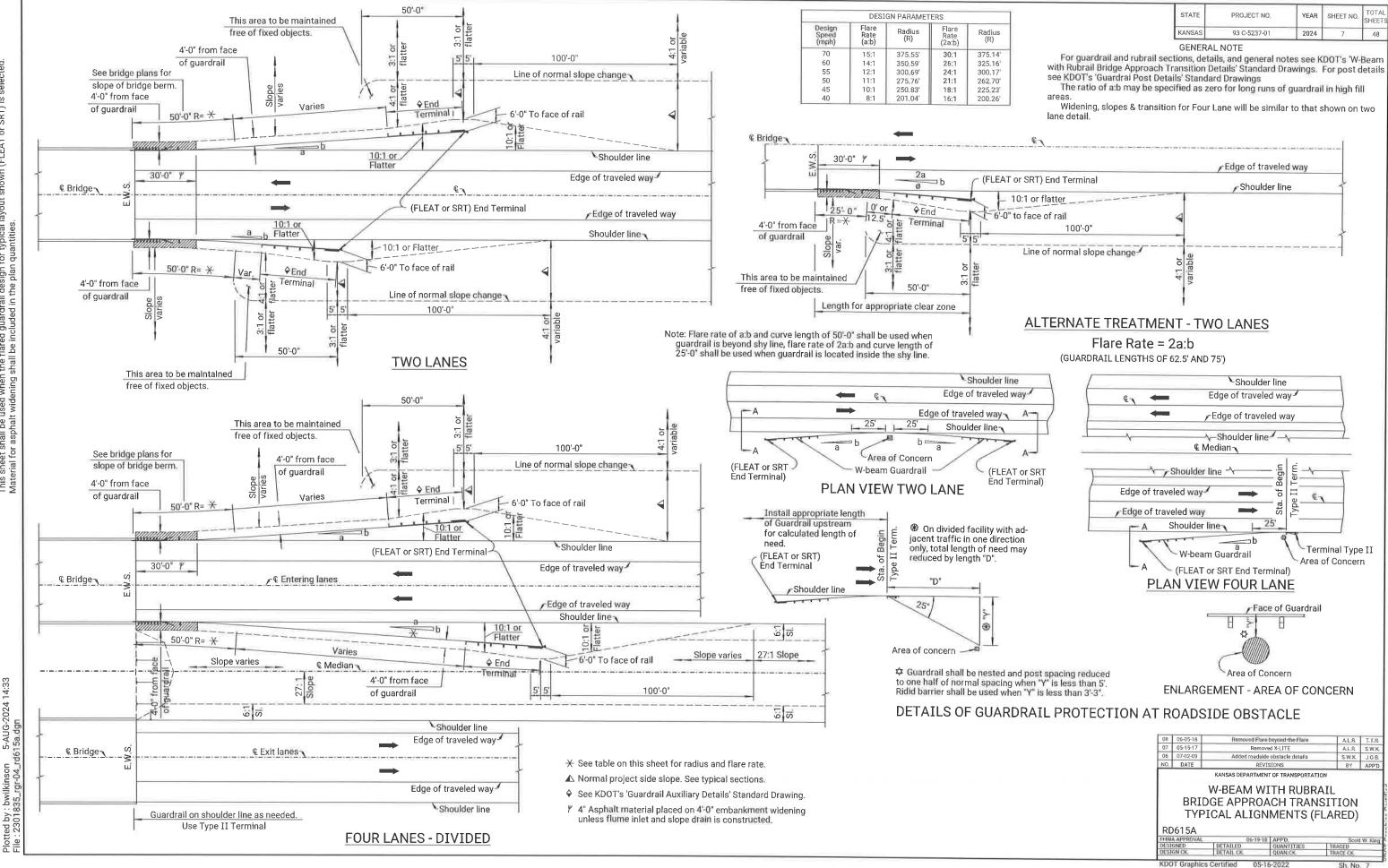
Slurry Grout (Low Strength). See KDOT's Standard Specifications ⊗ Diameter may vary from 1'-6" (min.) to 2'-0".

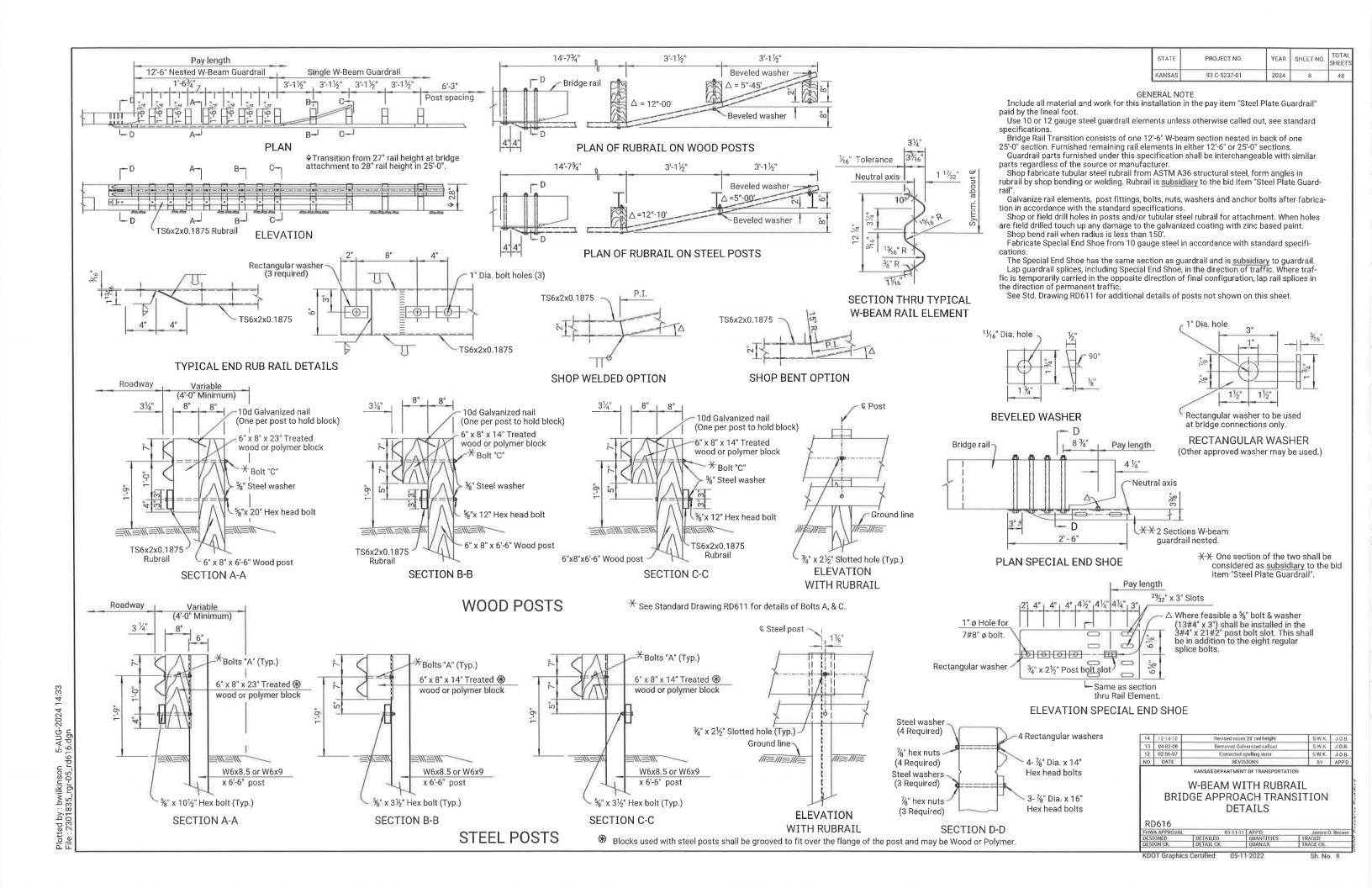
Note: Low Strength Grout must have a 28-day compressive strength of 120 psi or less. All work and materials related to posts in pavement are subsidiary to other guardrail bid items. Rectangular geometry shown in Posts in Pavement detail. Circular geometry, as shown on this sheet, may be used at the Contractor's option.

2%2"x11/8"

Slotted holes







\*\* Quantities are included in the Superstr. Total Quantity # Summary of Piling

Abutment No. 1 Pler No. 1

3 @ 61' & 1 @ 71' for use with the PDA 7 @ 84

GENERAL NOTES

Pier No. 2 Abutment No. 2

4 @ 60'

6 @ 80 & 1 @ 90' for use with the PDA

\* NOTE: Only steel pile HP12X53 shall be used on this project.

EMBANKMENT: Complete the embankment at the abutments as shown on the Bridge Excavation sheet prior to driving the abutment piling or commencing with the abutment footing excavation.

BRIDGE EXCAVATION: Elevation 1788.50 shall designate the Excavation Boundary Plane of Class I and Class II Excavation; Class I above the plane, Class II below the plane. See the Bridge Excavation sheet for the limits of pay excavation.

BACKFILL COMPACTION: Compact backfill at the abutments.

PILING: Drive all piling to a minimum elevation of 1,731.0 ft at Abut. 1, 1,709.5 ft at Pier 1, 1,713.0 ft at Pier 2, & 1,732.0 ft at Abut. 2. Driving shall stop when in the opinion of the Engineer additional driving may damage the piling. Drive all piling to the Pile Driving Formula Load of:

Abutment No. 1 63 Tons Pier No. 1 85 Tons Pier No. 2 85 Tons Abutment No. 2 63 Tons

As a minimum drive each pile to the load and penetration, but in no case shall the pile be driven to more than 110% of Pile Driving Formula Driving Load. At any location where problems are experienced, pile damage is suspected, or the Pile Driving Formula Load occurs significantly above the design pile tip elevation, the Engineer may request that the Pile Driving Analyzer (PDA) equipment be used.

CONTRACTOR FURNISHED PDA: Use the Pile Driving Analyzer equipment at the locations shown on the Construction Layout, Use Pile Driving Analyzer equipment and methods compliant with KDOT Special Provisions. The piling shall remain in place as permanent piling. Drive the piling to the resistance value of 98 tons at the Abutments and 131 tons at the Piers (Strength I divided by Phi).

PILING SPLICE LOCATION: Integral pile splice locations and weld testing criteria for, Abutments No. 1 and No. 2 and Piers No. 1 and No. 2 will follow the "Standard Pile Details" Sheet (BR110).

CORRAL RAIL: Build the corral rail after the falsework is struck.

SLOPE PROTECTION (Riprap Stone): Place Slope Protection (Riprap Stone) to the limits and thickness shown on the plans or as directed by the Engineer. Use Riprap Stone Classified as Light 200 Pounds.

REMOVAL OF EXISTING STRUCTURE: Removal of existing structure is included in the bid item, "Removal of Existing Structures", Lump Sum, All materials removed from the existing structure shall become the property of the Contractor. Remove this material from the site.

CONCRETE: Superstructure concrete is bid as Concrete (Grade 4.0)(AE)(SW). Substructure concrete is bid as Concrete (Grade 4.0)(AE). Bevel all exposed edges of all concrete with a 34" triangular molding, except as otherwise noted on the plans. Construction joints are optional with the Contractor, but if used, place only at locations shown, or at locations approved by the Engineer.

REINFORCING STEEL: All reinforcing steel dimensions are to the centerline of bars unless otherwise noted. All reinforcing steel shall conform to the requirements of ASTM A615, Grade 60.

CAMBER: Provide camber as shown on the Camber Diagram unless the Contractor uses either long span steel beam falsework (concrete dead load deflection greater than 14") or timber falsework with greater than 12'-0" clear span. If either case exists, submit falsework plans that show the additional required camber.

FALSEWORK PLANS: A licensed Professional Engineer shall design the falsework details. Details shall bear the seal of a licensed Professional Engineer. Submit electronic plans conforming to Section 105 of the Standard Specification with details in compliance with KDOT Specifications to the Field Engineer for review.

FALSEWORK INSPECTION: This project has falsework plan requirements which are considered "Category 2" by KDOT specifications. If falsework deficiencies or variations from the approved and sealed plans are found, the falsework design Engineer of Record will provide written approval of the changes. If for the convenience of the Contractor the falsework becomes "Category 1" by the use of non-typical supports; then the inspection and review requirement of "Category 1" will be fully enforced, but at no cost to the State. "Category 2" falsework inspection is not paid for directly, but is subsidiary to other bid items.

FALSEWORK: Leave the falsework in place for the entire unit until 15 days after the last concrete pour for the unit or longer as directed by the Engineer.

DEMOLITION PLANS: This is a Category A Demolition. Submit detailed Demolition Plans to the Field Engineer per KDOT\ Specifications. No Demolition work will begin without approved Demolition Plans. A Licensed Professional Engineer is not required.

CONCRETE PLACING SEQUENCE: The sequence of placing concrete in the slab and curbs shall be as shown, or the Contractor may submit an alternate placing sequence for review. Submit the alternate placing sequence to the Engineer at the Preconstruction Conference. Include the proposed rate of concrete placement in C.Y./h, the plant capacity, placement direction, construction joint location, a description of the equipment used in placing the concrete, proposed admixtures, and the quantity of concrete in each placing segment. Any additional cost for the Contractor's alternate plan of placing concrete, including admixtures, shall be at the Contractor's expense and shall be considered subsidiary to the bid item, "Concrete (Grade 4.0)(AE)(SW)". Approval of the Contractor's alternate sequence is required prior to placement of concrete in the deck.

CONSTRUCTION LOADS: Limited traffic is permitted on the new sub-deck, one-course deck or any concrete overlay during the curing period, keep any exposed deck wet during the curing period. See KDOT Specifications Section. 710 Tables 710-1 and 710-2 for additional information.

TEMPERATURE: The design temperature for all dimensions is 60° F.

QUANTITIES: Items not listed separately in the Summary of Quantities are subsidiary to other items in the proposal.

DIMENSIONS: All dimensions shown on the design plans are horizontal dimensions unless otherwise noted. Make necessary allowances for roadway grade and cross slope.

CONSTRUCTION JOINTS: The construction joints shown are optional with the Contractor. If used, place the construction joints only at locations shown or at locations approved by the Engineer.

CONSTRUCTION SPECIFICATIONS: Kansas Department of Transportation, Standard Specifications for Road and Bridge Construction, 2015 Version, and Special Provisions.

CONTRACTOR CONSTRUCTION STAKING: Contractor Construction Staking for clear span bridges requires two independent surveys. See KDOT Specifications.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL
KANSAS	93 C-5237-0I	2024	9	48

INDEX TO BRIDGE DRAWINGS
Drawing
General Notes and Quantities
Contour Map
Construction Layout
Engineering Geology
Abutment Details
Pier Details
Superstructure Details
Corral Rail Details
Bill of Reinforcing Steel and Bending Diagrams
Standards
Bridge Excavation
Standard Pile Details
Supports and Spacers for Reinforcing Steel

#### DESIGN DATA

#### DESIGN SPECIFICATIONS:

AASHTO Specifications, 2007 Edition and latest Interim Specifications. Load and Resistance Factor Design.

#### DESIGN LOADING: HI -93

Design Dead Load includes an allowance of 25 psf for a future wearing surface.

#### UNIT STRESSES.

Concrete (Grade 4.0)(AE)	f'c =	4 ksi
Concrete (Grade 4.0)(AE)(SW)	f'c =	4 ksi
Reinforcing Steel (Grade 60)	fy =	60 ks
Steel Piles	fy =	50 ks

#### LRFD DESIGN PILE LOAD:

Design Loadin	g (Tons/Pile)	Strength	Service	Phi
Abutments 1	& 2:	63	42	0.65
Piers 1	& 2:	85	59	0.65

6	10/19/15	Added Asbestos NOT8221 Option	JPJ	CER
5	2/4/15	Modfifed Per 2015 Specification	JPJ	CER
4	4/7/14	Current Release	JPJ	CER
3	2/12/14	Added Benchmark	JPJ	CER
2	08/2/12	ADDED NOT3I35 & NOT3I45	JPJ	TLF
1.1	04/29/10	ADDED RATING TABLES	JPJ	KFH
NO.	DATE	REVISIONS	BY	APP'D

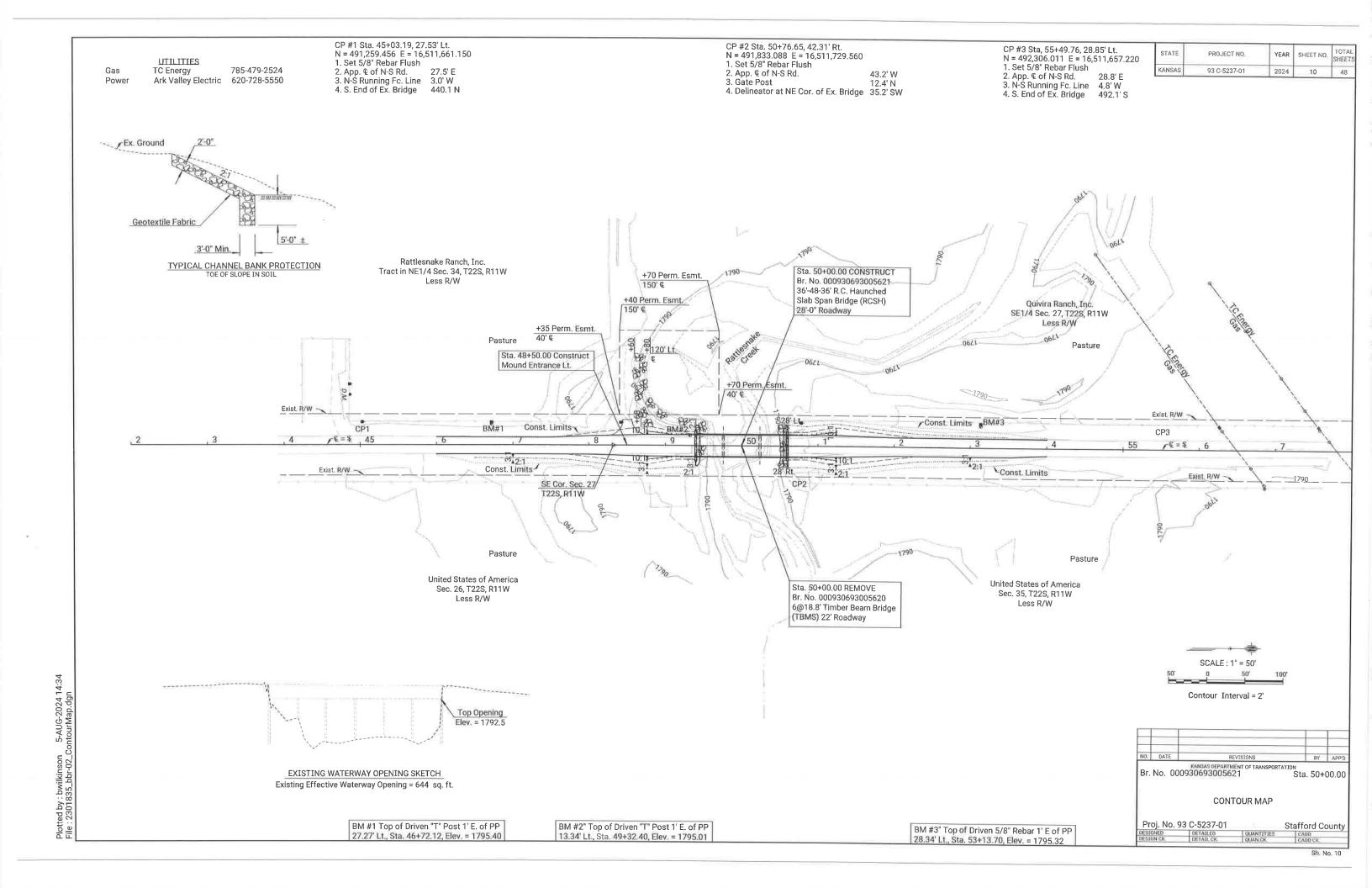
KANSAS DEPARTMENT OF TRANSPORTATION

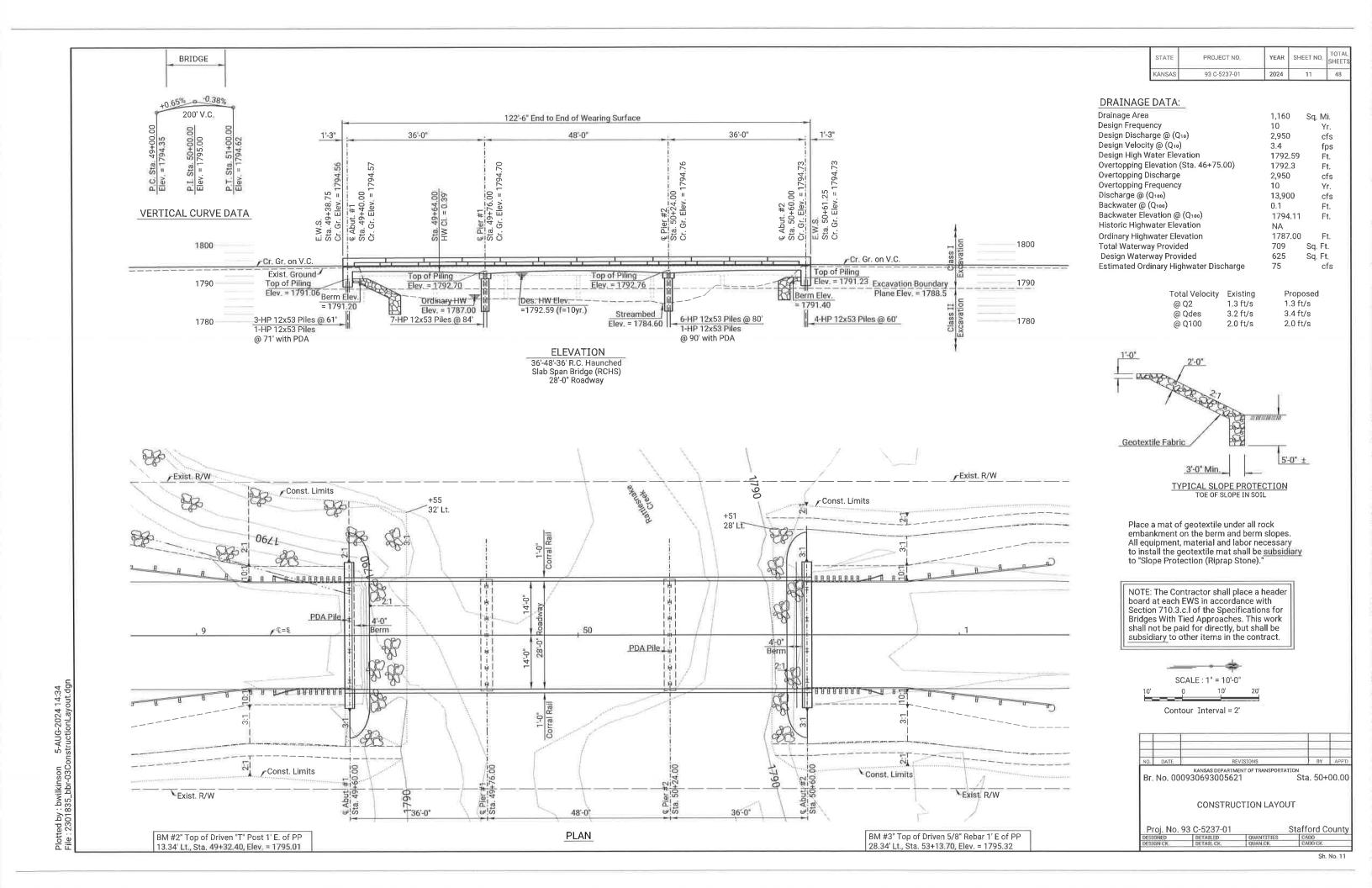
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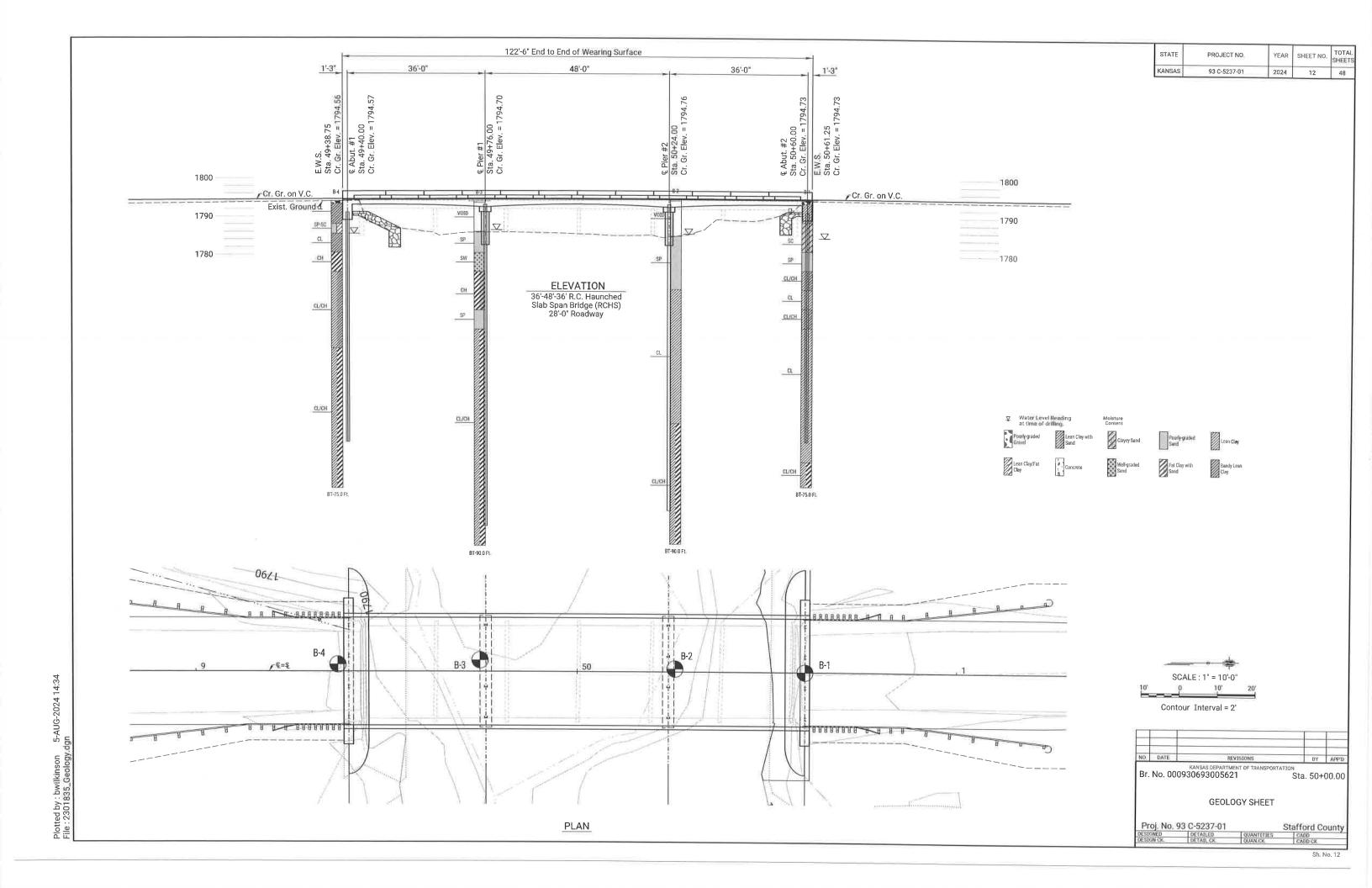
Br. No. 000930693005621

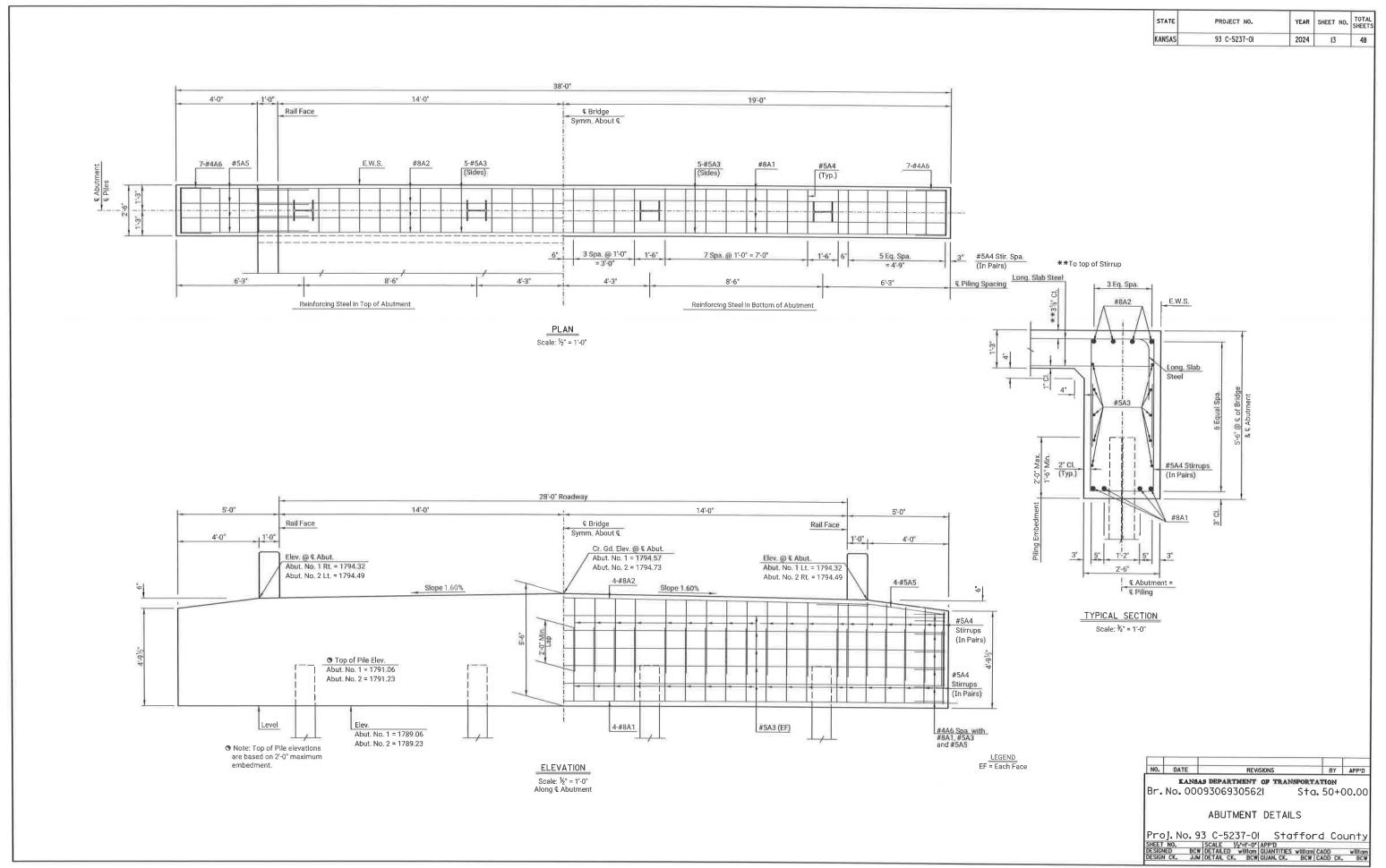
GENERAL NOTES AND QUANTITIES

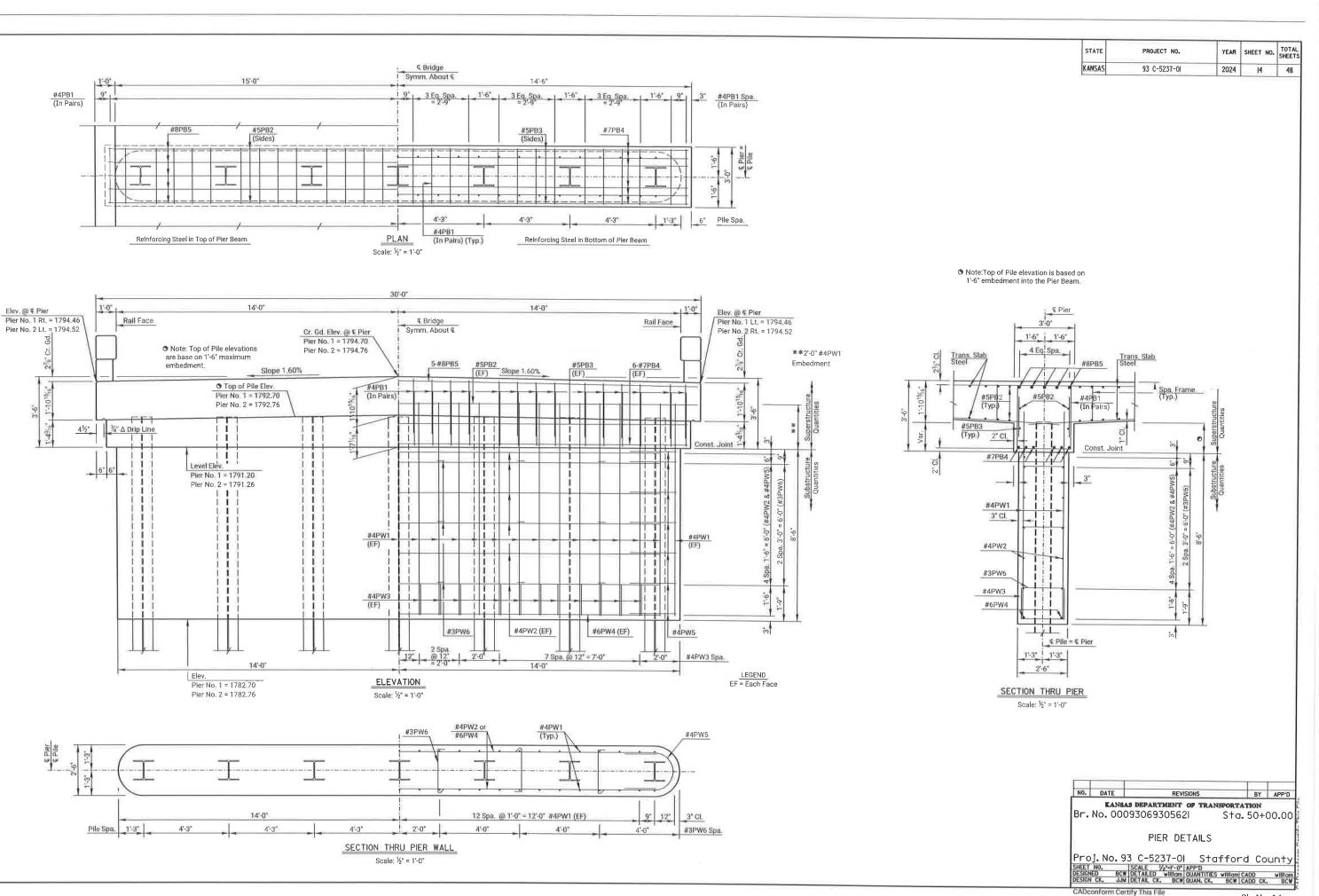
Proj. No. 93 C-5237-01 Stafford County

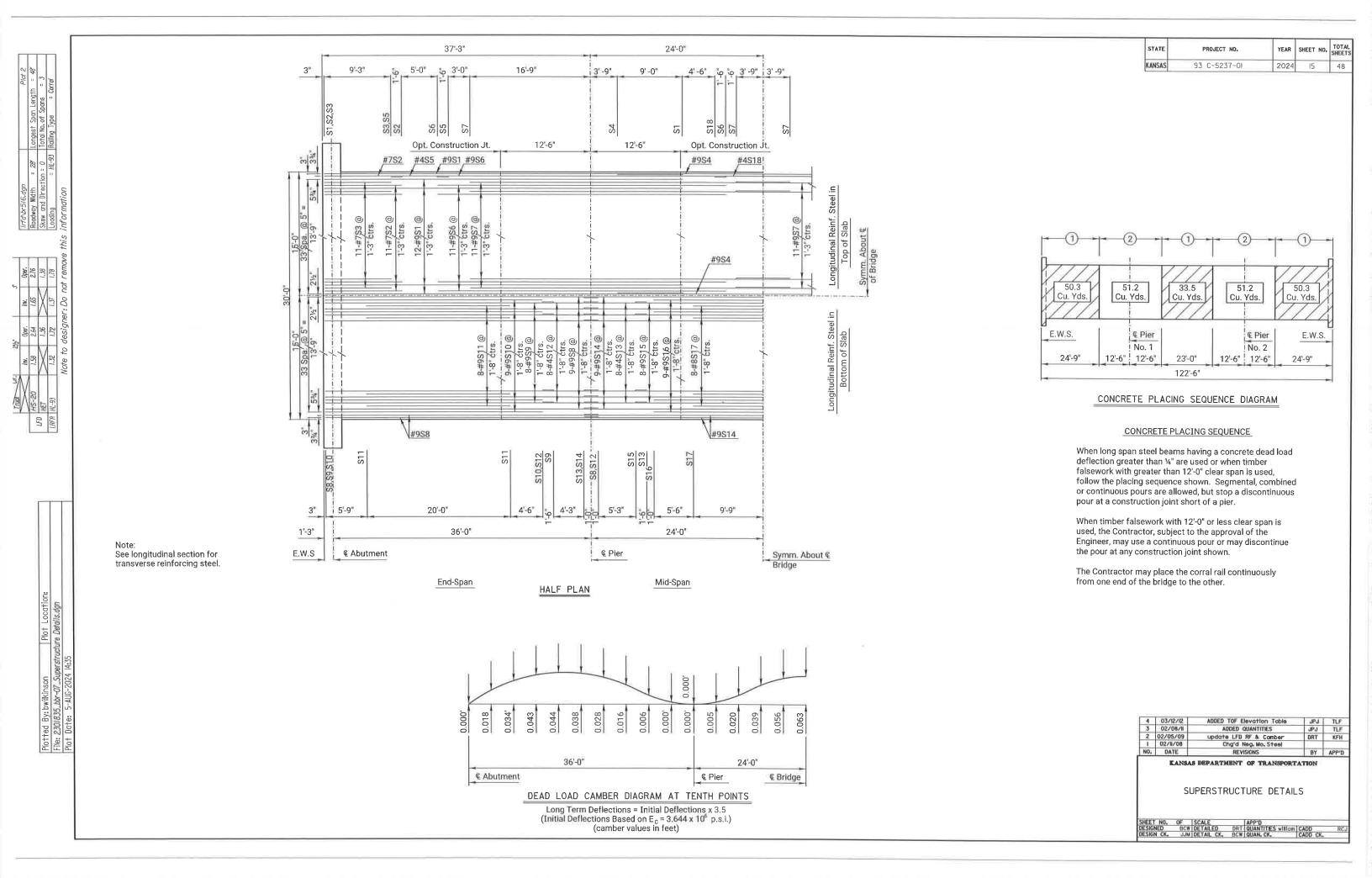


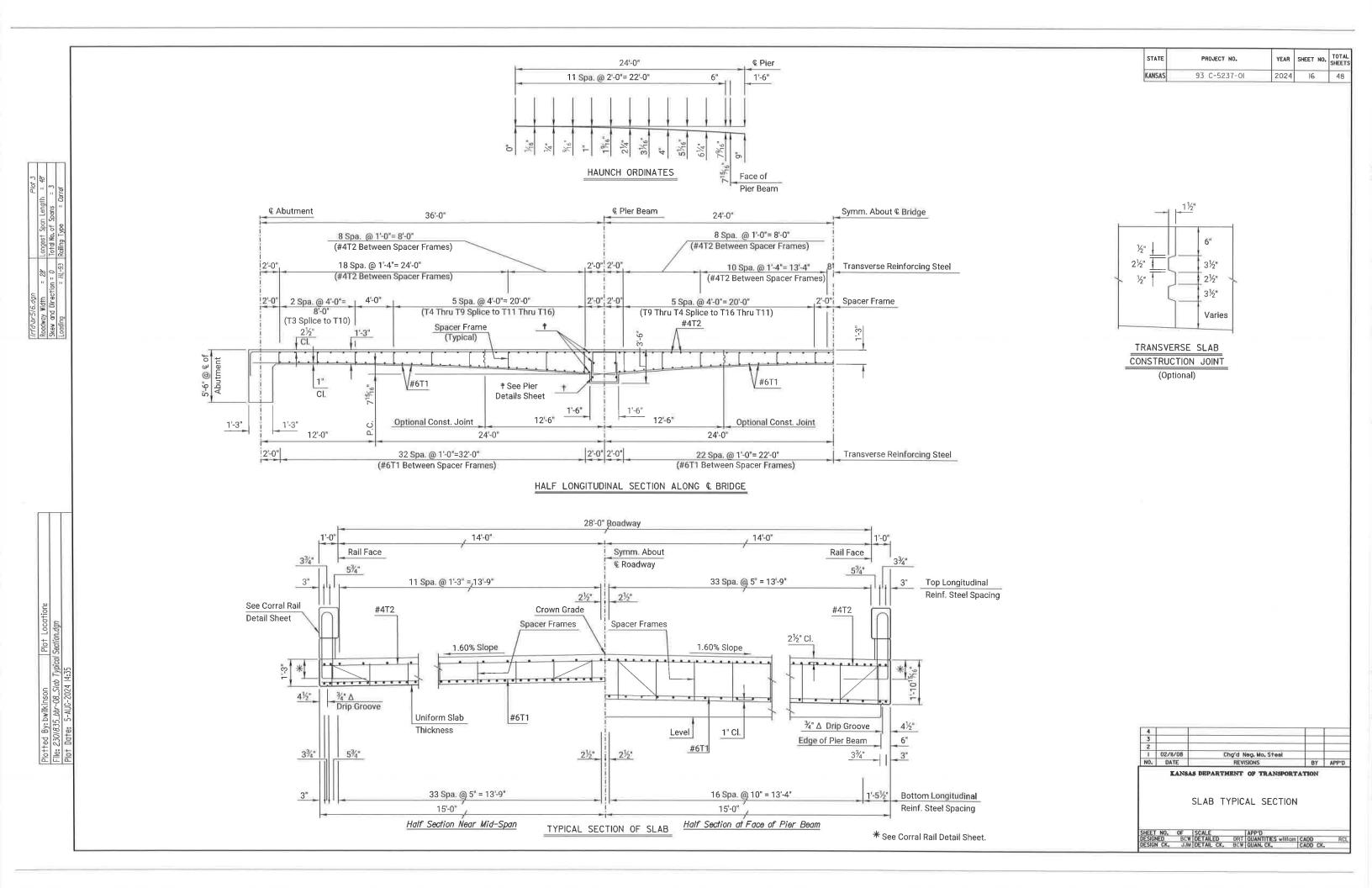


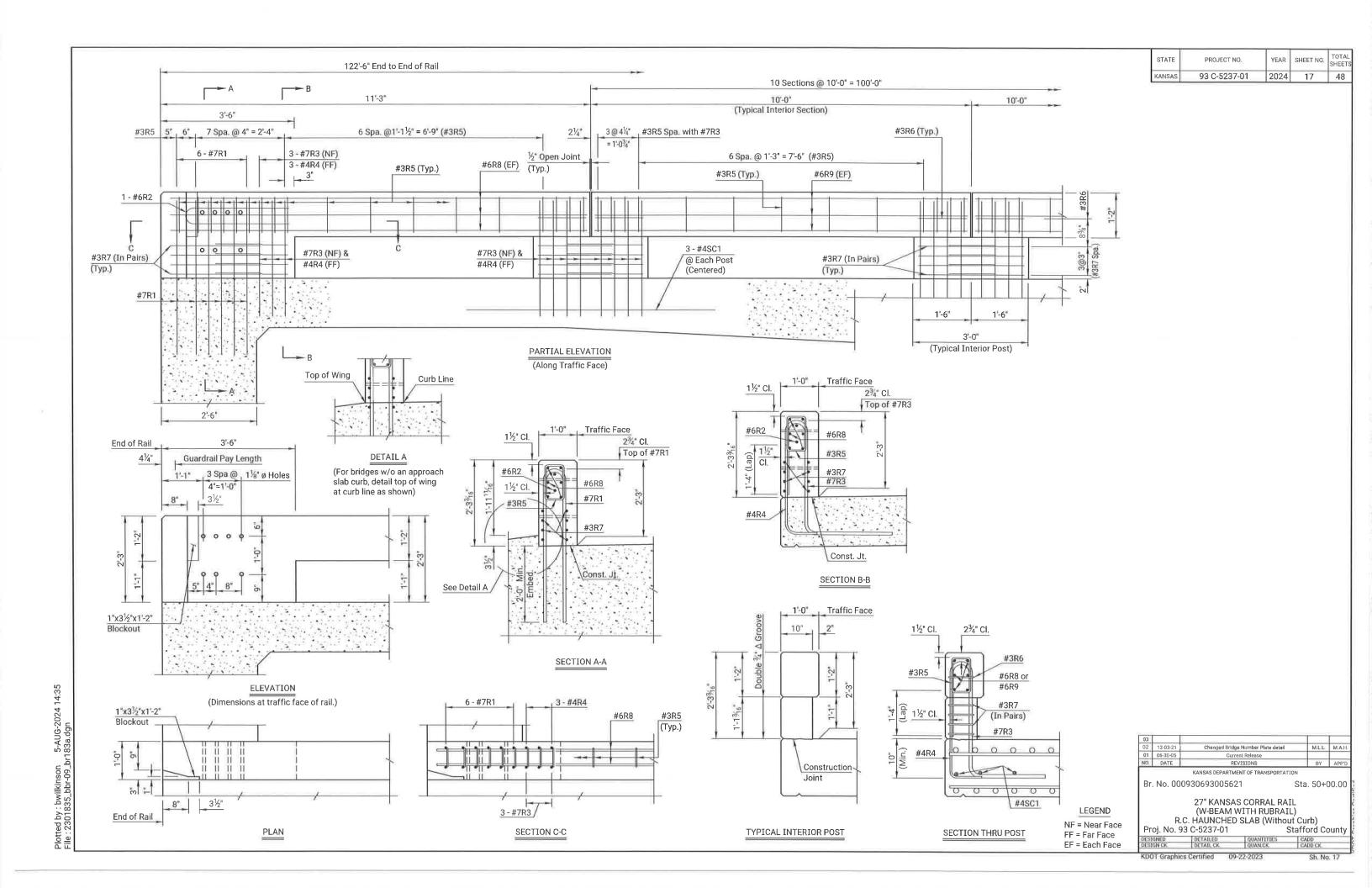


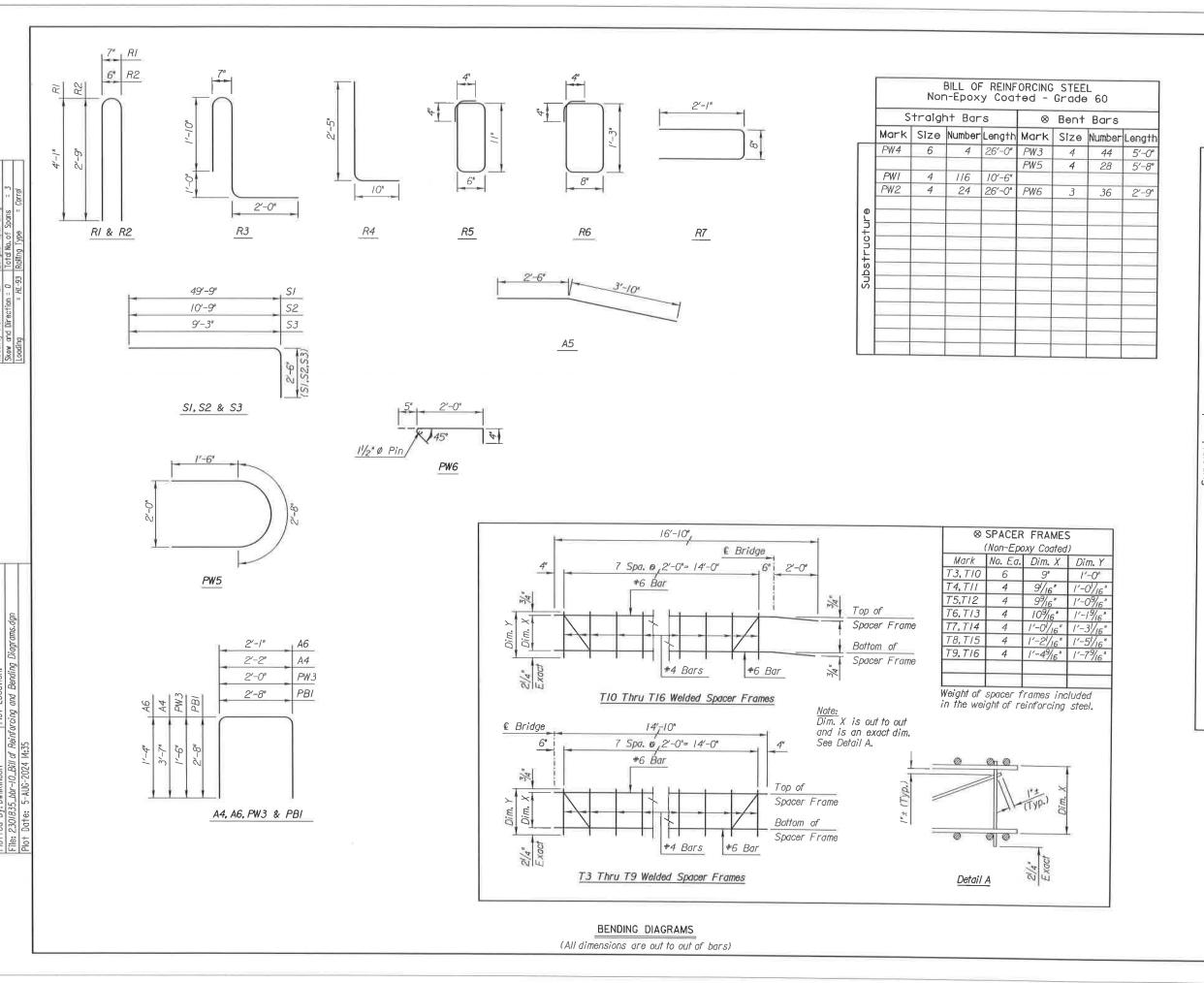












 STATE
 PROJECT NO.
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 SHEET NO.
 TOTAL SHEETS

 KANSAS
 93 C-5237-01
 2021
 18
 48

BILL OF REINFORCING STEEL Non-Epoxy Coated - Grade 60

			,	_			-0	
	S	traigl	nt Bar	's	8	Bent	Bars	
	Mark	Size	Number	Length	Mark	Size	Number	Length
	<i>S10</i>	9	36	30'-3"	SI	9	52	52'-3"
	SII	9	32	20'-0"				
	S14	9	22	50'-0"	RI	7	24	8'-6"
	S15	9	16	35'-6"	R3	7	188	7'-0"
	S16	9	18	30'-6"	S2	7	48	13'-3"
	S4	9	4	40'-6"	S3	7	44	11'-9"
	<i>S6</i>	9	48	40'-0"				
	57	9	44	44'-6"	R2	6	4	5'-10"
	<i>S8</i>	9	44	38'-0"				
	59	9	32	3/'-9"	A4	5	152	9'-4"
					A5	5	16	6'-4"
	A7	8	8	37′-8"				
	A2	8	8	30'-0"	A6	4	28	4'-9"
	PB5	8	10	29'-8"	PBI	4	112	8'-0"
	SI7	8	16	19'-6"	R4	4	188	3'-3"
	PB4	7	12	28'-8"	R5	2	220	2/ (2)
	, 0,		12	20 0	R6	3	332	3'-6" 4'-6"
σ.	R8	6	24	10'-11"	R7	3	<i>44</i> <i>208</i>	4'-10"
Ĭ,	R9	6	120	9'-8"	- / //		200	4-10
됐	TI	6	81	29'-8"	T3-T16			⊗
ž			01		13 110			- 0
sti	A3	5	20	37′-8"				
9	PB2	5	12	29'-8"				
Superstructure	PB3	5	4	28′-8"				
S	610	_	20	71.01				
	SI2	4	32	7′-9"				
	SI3	4	32	8'-9"				
	SI8	4	2	13'-6"				
- 1	S5	4	4	8'-0"				
ł	SC1	4	66	6'-6"				
-	T2	4	62	29'-8"				
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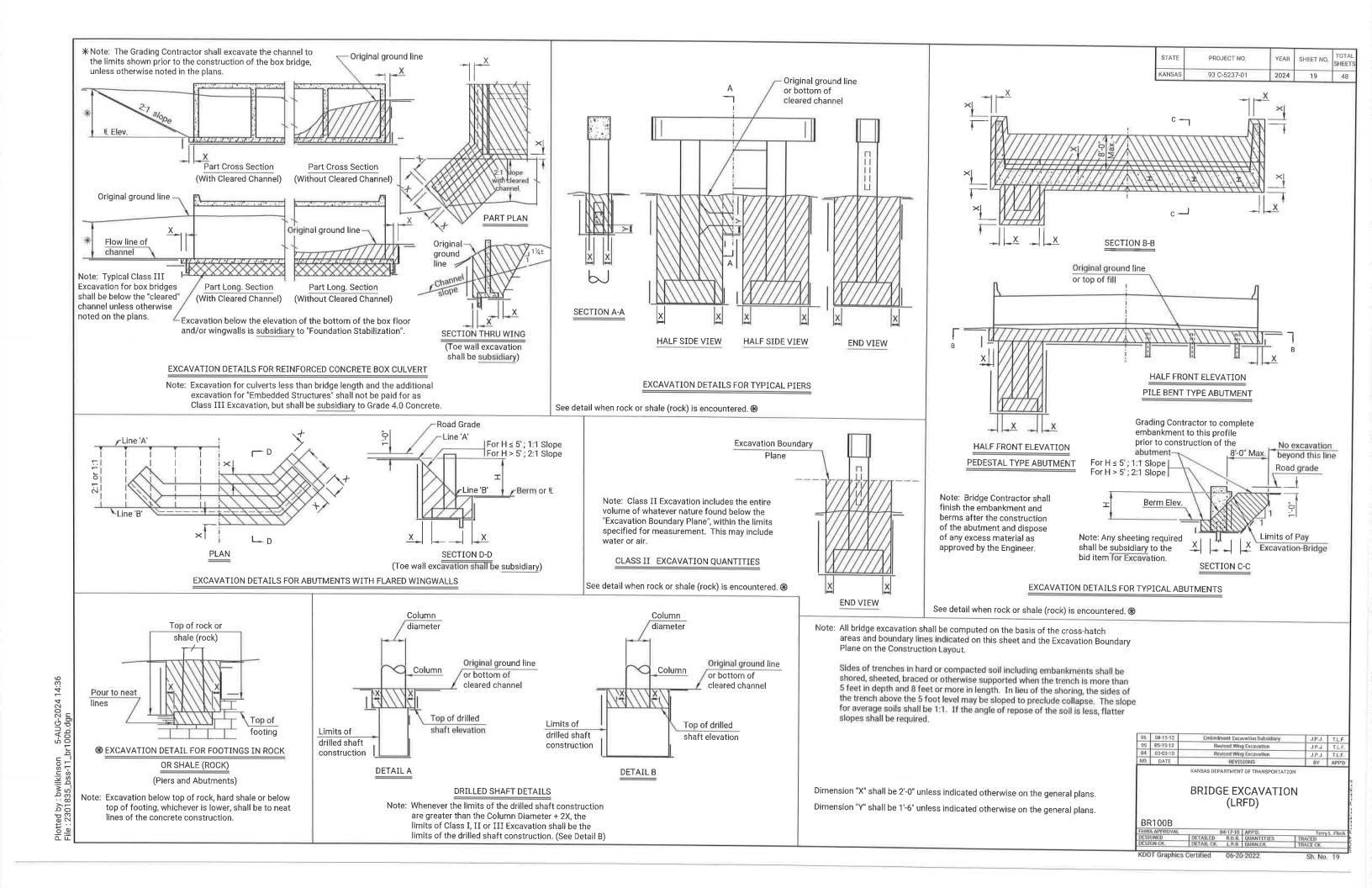
⊗ See Bending Diagram

4				
3				_
2	7/30/09	porrected Qty. on note to Designer	DRT	KFH
.1	02/11/08	Chg'd Neg. Mo. Steel		10.11
NO.	DATE	REVISIONS	BY	APPT

KANSAS DEPARTMENT OF TRANSPORTATION

BILL OF REINFORCING STEEL AND BENDING DIAGRAMS

EET NO. OF SCALE APP'D SIGNED ORT DETAILED ORY QUANTITIES CADO RC SIGN CK. CEM DETAIL CK. CEM QUAN. CK. CADO CK.



GENERAL NOTES

ALTERNATE METHODS: Method of attachment of a pile to build-up

1. Cut off at least 2'-0" of pile and expose a minimum of 2'-0"

2. Cast 8-#6, or 8-#5 bars (equally spaced) into pile head. All

3. Drill 8 holes in pile head (equally spaced) for installation of

8 grouted dowel bars of same size and length as in 2.

No bars or strands are to extend from head of pile or build-up

Into footing or pile cap unless approved by the Engineer

bars shall extend into pile head and project from pile

may be by any of the following methods:

Provide cored holes for bars as in 3.

head a minimum of 2'-0".

of strands

STATE PROJECT NO. SHEET NO KANSAS 93 C-5237-01 2024 20 SPECIFICATIONS: Standard Specifications for State Road and Bridge

Construction as currently used by the Kansas Department of

CONCRETE: Concrete for cast-in-place shall be f'c = 3,500 PSI. Concrete for prestressed shall be f'c = 5,000 PSI.

WELDING: All field welding shall meet the requirements of the Standard Specifications.

Use only Shielded Metal Arch Welding SMAW (stick welding) for pile splices.

Use only low hydrogen E7018, 7016, or 7015 series welding rod (electrode) for all welding applications during pile splicing.

New electrodes are to be purchased for each KDOT project. The electrodes shall arrive on the project in factory hermetically sealed containers, opened and labeled with indelible ink in front of the engineer. The label shall include the current date and the project number. If the container seal is questionable or shows signs of damage the electrode is to be dried in an oven at least one hour at a temperature of 700°F to 800°F.

Upon removal from intact hermetically sealed factory packaging or the drying oven the electrode is to be placed in a storage oven with a minimum temperature of 250°F.

When electrodes are removed from the hermetically sealed container or storage oven and exposed to the atmosphere for less than 4 hours place into the storage oven for at least 4 hours before removing for use

If electrode is exposed to the atmosphere for 4 hours or more (or 9 hours for moisture resistant electrodes designated with an R in their labeling) then electrode can be dried in a drying oven at a temperature of 450°F to 550°F.

If the electrode is exposed to the atmosphere for 4 hours or more a second time or the rod becomes wet discard rod.

CAST-IN-PLACE SHELLS: Steel shells for cast-in-place concrete piles shall conform to the requirements of the Standard Specifications.

All piles driven without a mandrel shall be of the minimum thicknesses shown. Piles driven with a mandrel shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and/or buckling due to soil pressure after the mandrel is removed.

Remove, replace or correct to the satisfaction of the Engineer improperly driven, broken or otherwise defective pipe piles. Otherwise drive an additional pile at no extra cost.

The Contractor shall maintain a light suitable for visual inspection of the pile on the job at all times prior to and during the filling of the pipe.

PAINT: All paint shall comply with the Standard Specifications, or as specified on the plans.

MILL TEST REPORTS: Steel piles test reports and steel shell test reports shall comply with the Standard Specifications.



Grade 60. Hoops and spirals may be either plain or deformed bars. PRESTRESSING STEEL: Use uncoated seven-wire low relaxation prestressing strand conforming to ASTM A416, Gr. 270. STEEL PILE: Steel pile shall conform to the requirements of the Standard Specifications. PILE POINTS: Pile points shall conform to the dimensions shown and to requirements of the Standard Specifications.

SPLICES: Splices for steel piles and shell piling shall be in accordance with details shown on this sheet and the Standard Specifications

For integral pile bent abutments and piers, if a pile splice is required, do not locate the pile splice within a region extending 2'-0" above and 10'-0" below the bottom of the concrete web wall. For abutments, locate the pile splice at least 10'-0" below top of fill. bare, and shiny surfaces at and around the splice welding

> the region described above without testing. If additional splices are anticipated, based on the geology, the Contractor prior to driving, will locate the splice so that the splice

† For integral pile bent abutments and piers, if a splice is located within the regions described above. then the Contractor will test the welds by Radiograph (RT) test methods. Repair and retest any welds not passing the test(s). Each weld tested will have written confirmation of results. Report these results to the Engineer. This work is not paid for directly, but is subsidiary to "Piles".

Section thru Flange

BG = Backgouge

\* Minimum as required by welding process.

Finish welding beveled side of the splice while removing slag, foreign materials, porous steel, and inclusions in between welding passes, use of a grinder may be needed. Verify that enough filler metal has been correctly placed in all weld locations to obtain a flush or convex surface with no concavity produced upon completion of the final welds.

the non beveled side of the splice.

Lay full penetration root weld from beveled side of splice.

Back gouge root weld from side opposite of root welding

porous steel, and inclusions from root weld. Finish welding

application making sure to remove all foreign materials,

Pick-up point 0.3 L 0.7 L SINGLE POINT PICK-UP Pick-up points 0.21 L 0.21 L 0.581DOUBLE POINT PICK-UP

### PICK-UP POINTS FOR PRESTRESSED PILING

Max, length - 55' single point pick-up Max. length - 80' double point pick-up

Note: Piles shall be marked at Pick-up points to indicate proper points for attaching handling lines.

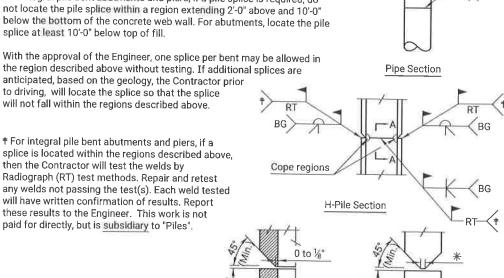


Outside Flange

H-Pile Point

## CAST STEEL PILE POINT

The pile point shall be a one-piece unit of cast steel. Weld pile points in accordance with manufacturer's recommendations to each steel pile before driving.



Section A-A

(Thru web)

PILE SPLICE DETAILS

2024

