SHEETS
Title Sheet
Signature Seal Sheet
Typical Sections
Foundation Treatment & Compaction of Earthwork
Salvaged Topsoil
General Note
Plans & Profiles
Intersection Details
Pavement Details
Slope Protection
Inlet and Manhole Details
Storm Sewer Profiles
Schedule of Inlets and Manholes
Underdrains
Guardrail
Integral Sidewalk and Retaining Wall
End Sections
Pipe Culvert Summary
Bridge No. 35-56-128.97 (171)
Bridge No. 35-56-128.98 (170)
Bridge Excavation
Standard Pile Details
Supports and Spacers for Reinforcing Steel
Bridge Berm and Slope Protection
Fencing Plans and Fencing Details
Summary of Quantity Sheet
Project Surfacing
Temporary Erosion and Pollution Control
Seeding
Signing and Pavement Marking
Construction Sequence
Traffic Control
Concrete Safety Barrier (Temporary) Cross Sastions
Cross Sections

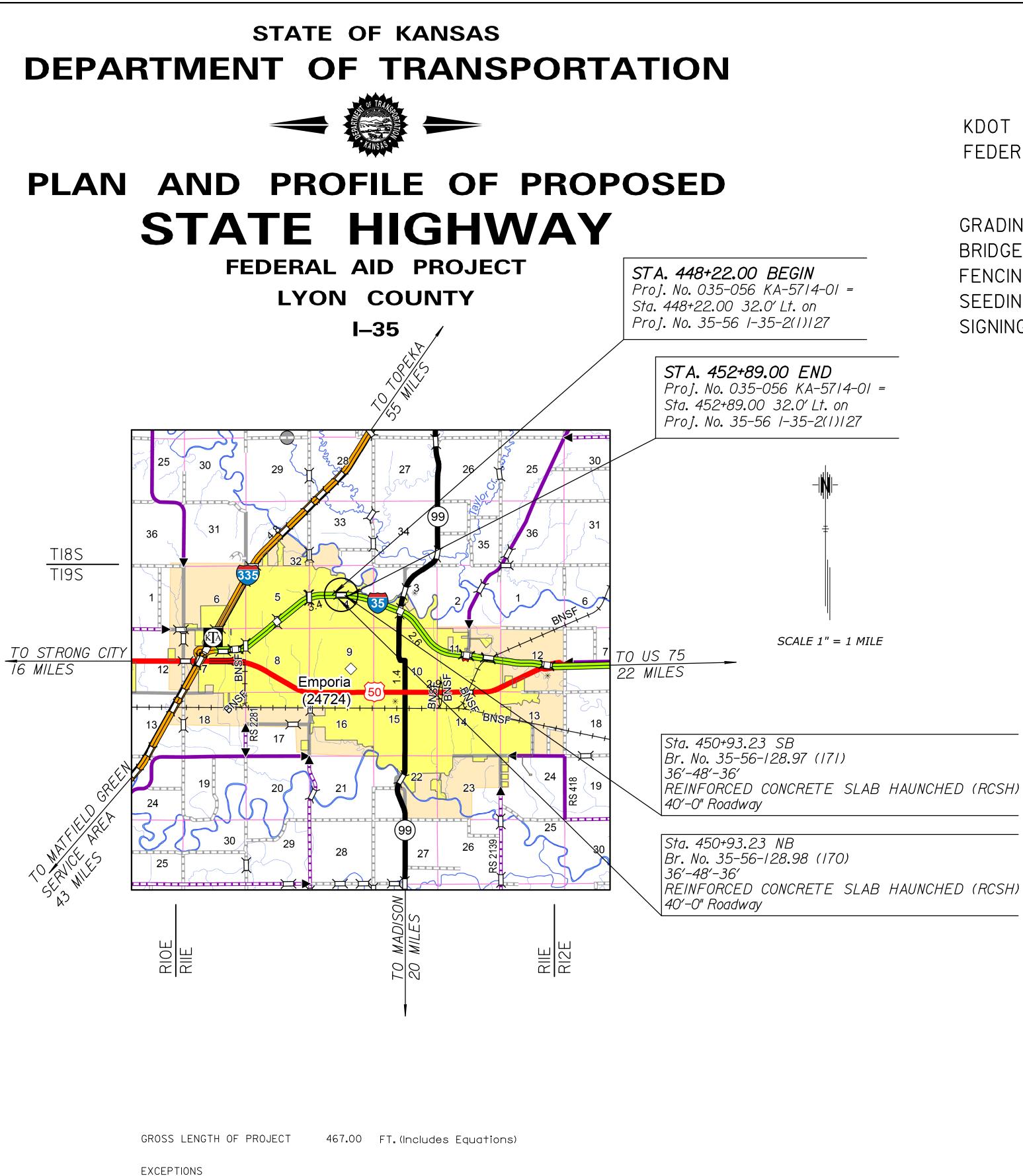
I-35 DESIGN DES		LINCOLN S DESIGN DESI	
AADT(2024) AADT(2044) DHV D T V C of A Clear Zone	33,000 9% 55% 20.5% 70 mph FULL	AADT(2024) AADT(2044) DHV D T V C of A Clear Zone	- - 35 mph N/A
	CONVENTION	NAL SIGNS	
E NATIONAL LINE ECTION or GRANT LINE LINE		CENTER LINE OF PROJECT TERRACE CULVERTS DROP INLET & STORM SEV ACCESS CONTROL	····· لَــــــــــــــــــــــــــــــــ

	ВҮ	DATE
SURVEY	BARTLETT & WEST - SHANKS	2015
CADD TECHNICIAN	AN HDR - HORNER	2023
DESIGNERS	HDR - BUTTENOB (ROAD), KOSMICKI (BRIDGE)	2023
SQUAD	BASS (ROAD), PETERSON (BRIDGE)	2023

Plotted : 11-06-23 293301\KA571401rti-05. al01\d2 Drawn By : user File : c:\pwworkin

DUNTY LINE TY LIMITS	
ATE OR NATIONAL LINE	
NSHIP, SECTION or GRANT LINE	······
OPERTY LINE	····· — — — — — — — — — — — — — — — — —
GHWAY FENCE	_
KISTING FENCE	······ ×——×——×—
ARDRAIL	······
DNSTRUCTION LIMITS	
GHT OF WAY LINE	
AVELED WAY	
AILROADS	

CENTER LINE OF PROJECT	50	/
TERRACE	··· · · · · · · · · · · · · · · · · ·	1 /
CULVERTS		
DROP INLET & STORM SEWER		
ACCESS CONTROL		
POWER POLE		
TELEPHONE POLE		
MARSH		
HEDGE	···	
TREES	- A A A	2.18
PROFILE ELEVATION	\sim \sim \sim	117
STREAM or CREEK		



NET LENGTH OF PROJECT 467.00 FT. 0.088 MILES NET LENGTH OF BRIDGES 122.50 FT. 0.023 MILES NET LENGTH OF ROAD 344.50 FT. 0.065 MILES

= 1_____

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	1	200

KDOT PROJECT NO. 035-056 KA-5714-01 FEDERAL AID PROJECT NO. BRF-A57I(40I)

GRADING AND SURFACING (CONCRETE PAVEMENT) BRIDGES FENCING SEEDING SIGNING AND PAVEMENT MARKING

SCALE 1'' = 1 MILE

REINFORCED CONCRETE SLAB HAUNCHED (RCSH)

NOTE: TRAFFIC SHALL BE CARRIED THROUGH PHASED CONSTRUCTION ON TEMPORARY CROSSOVERS. SEE SH. NO. 124 - 128 FOR CONSTRUCTION SEQUENCE DETAILS.



PLANS PREPARED AND SUBMITTED BY HDR ENGINEERING, INC.

Approved Nov 08, 2023 Date Br.M. Sil State Transportation Engineer

By:

Detrup Dy Chief, Bureau of Road Design

KANSAS DEPARTMENT OF TRANSPORTATION

KDOT Graphics Certified 11-06-2023

1

k						ARY OF Q	UANTITIES * <i>Piles</i>
	Item	Class III	(Grade 4.0)	(Grade 4.0)		rcing Steel ade 60)	(Steel)
		01033 111	(AE) (SA)	(AE)		ky Coated)	(HPI2x53)
	Location	Cu. Yds.	Cu. Yds.	Cu. Yds.		Lbs.	Lin. Ft.
A	butment No. I	64	**	-		**	110
F	Pier No. I	5	**	9.2		1790	-
F	Pier No. 2	5	**	9.0		1770	_
A	butment No. 2	64	**	-		**	100
	ubstr. Total	/38	-	18.2		3560	210
	uperstr. Total	-	376.9	-		98660	-
	Total	/38	376.9 ** Quantities al	18.2		$\frac{12220}{12220}$	<u>† 210</u> Immary of P.
СС		bridges requir	Total Quantit AKING: Contractor C res two independent	y. Construction Sta	king	At	outment No. 1 outment No. 2
	Office, KDOT, E St., Topeka, KS IBANKMENT: Con the Bridge Ex commencing wi	Eisenhower Stat pplete the emban cavation sheet p th the abutment	alified bidders at the te Office Building, 7 nkment at the abutme prior to driving the t footing excavation. ion shall be Class II	00 SW Harriso ents as shown o abutment piling	on or	(placi coil il colum colum contil Speci	DOT Specifi ing resteel of nserts or oth n without the nue after the fications.
ΤE	EMPORARY SHOP labor and mate shown on the during excavat authorizes its designed and design calculat review 6 week begin until the exposure heigh be required. S Shoring Invest inspection by c	RING: The bid ite erial necessary plans for the te tion. Maintain th removal. The te sealed by a reg tions and shori and shallow ee the KDOT ge igation Memo (E qualified bidder	s of pay excavation. em "Temporary Shor to furnish shoring emporary bracing of the temporary shoring play gistered Profession of glans to the Field is scheduled to beg ts approval. Note the depth to rock, specie eotechnical report. T Dated January 2023 fs at the State Bridg ding, 700 SW Harri	ring" includes al at the location the embankmen g until the Engin ans are to be al Engineer. Sul Id Engineer for gin. Work shall r alized shoring he Temporary b) is available for ge Office, KDOT	t neer omit not rge will or	repor geote availa at the 700 ABUT MEN Drain BRIDGE "Abut REMOV AL inclua Sum.	des soil para t recommend chnical infor able. The rep State Bridg SW Harrison IT STRIP D SW Harrison IT STRIP D Ment Strip D OF EXIST ded in the b All materials
37	ACKFILL COMPAC	CTION: Compact L	backfill at the abutme	ents and piers.		·	roperty of th
ΡI	LING: Piles shall elevation within required resis Shale Member	rich	(Aggi as di desci	PROTECTION regate)(12") f rected by th ribed in Divi			
	determined in	the field based la calculations.	pile. Final pile tip e 1 on observed blow Drive all piling to ti	counts and	d De	the r	E PROTECT ock embankm rip lines of
	ļ ļ		4.0)(E:Superstru AE)(SA).S AE).The Co Ags.Bevel c			
	case shall the Formula Drivii experienced, pi Load occurs s	pile be driven f ng Load. At any le damage is su ignificantly abo request that the	e to the load and po to more than 110% of 1 location where pro uspected, or the Pile ve the design pile the Pile Driving Analyz	of Pile Driving blems are e Driving Formu ip elevation, the	Ila	triang Const	gular moldin truction join only at locat
PF	pre-drilled to Abutmeni Abutmeni Piles shall be After driving, i	these elevations t No. I – Elev t No. 2 – Elev set and driven the holes shall l	. 1124.3	aring value show ling to KDOT			

Location

Plotted By: use

	Pre-Drilled	Drilled	Sonic Test	Core Hole	Bridge	Abutment	Slope	Bridge	
	Pile Holes	Shaft (48")	(Drilled Shaft)	(Investigative)	Backwall	Strip	Protection	Deck	
)		(Cased)	(Set Price)		Prot. System	Drain	(Aggregate)	Grooving	
	Lin. Ft.	Lin. Ft.	Each	Lin. Ft.	Sq. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	L
	80	-	_	_	25	21	157	_	
	_	52	_	24	_	_	_	_	
	_	53	_	24	_	_	-	_	
	75	-	_	_	25	21	150	_	
	155	105	_	48	50	42	307	-	
	_	_	_	_	_	_	_	490	
	155	105	/	48	50	42	307	490	L
⁻ ili	ng								

5 @ 22 ft. 2 5 @ 20 ft. * NOTE: Only steel pile HPI2x53 shall be used on this project

GENERAL NOTES

TION:Cure the drilled shaft footing as required by ifications before beginning the column construction or formwork). Do not place cast in place shear bolts, other devices used as falsework support in the the approval of the Engineer. Do not remove the rk without the approval of the Engineer. Curing shall the formwork is removed as required by the KDOT

PORT: The geotechnical report (Dated January 2023) rameters for retaining wall (sheet pile) design. The nds a traffic surcharge of 250 lb/ft². The ormation shown on the plans is the best information eport is available for inspection by qualified bidders dge Office, KDOT, Eisenhower State Office Building, son, Topeka, KS.

DRAIN: See the General Notes on the "Abutment Strip

PROTECTION SYSTEM: See the General Notes on the Drain" sheet.

TING STRUCTURE: Removal of existing structure is bid item, "Removal of Existing Structures", Lump als removed from the existing structure shall become the Contractor. Remove this material from the site.

N (Aggregate): Place Slope Protection) to the limits and thicknesses shown on the plans or the Engineer. Use (Aggregate)(12") $D_{50}=4$ " as ivision IIOO placed to the limits shown in the plans.

CTION: Place a IO foot wide mat of geotextile under kment on the berm and berm slopes and centered on of the slab.

ructure concrete is bid as Concrete (Grade Substructure concrete is bid as Concrete (Grade Contractor may use Concrete (Grade 4.0) in the I all exposed edges of all concrete with a $\frac{3}{4}$ " ing, except as otherwise noted on the plans. ints are optional with the Contractor, but if used, cations shown, or at locations approved by the

REINFORCING STEEL: All reinforcing steel dimensions are to the centerline of bars unless otherwise noted. All reinforcing steel, except the spiral bars, shall conform to the requirements of ASTM A615, Grade 60. Spiral bars may meet the requirements of either ASTM A615 (Gr. 40 or 60) or AASHTO M 32, and are included in the bid item "Reinforcing Steel (Gr. 60) (Epoxy Coated)".

Where non-coated bars come in contact with epoxy coated bars, they need not be coated.

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

LRFD L

TRAFFIC [DATA
AADT (2024)	/3,200
AADT (2044)	18,150
DHV	9%
Τ	20.5%

Note: Traffic Data provided SB Bridge only.

Temporary	Falsework
Shoring	Inspection
ump Sum	Lump Sum
-	-
_	-
_	_
_	_
_	_
_	_
ump Sum	Lump Sum

	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		035-056 KA-57I4-0I	2023	59	200
		INDEX TO BRIDGE DRAW	INGS		
SHEET	NO. DRAWING TITLE				
59		General Notes and Quantities			
60 General Notes					
61	61 Contour Map				
62 Construction Layout					

61	Contour Map
62	Construction Layout
63	Engineering Geology
64	Abutment Details
65	Abutment Strip Drain
66	Pier Details
67	Superstructure Details
68	Superstructure Details
69	Slab Elevations
70	Corral Rail Details (1 of 2)
71	Corral Rail Details (2 of 2)
72	Bill of Reinforcing Steel and Bending Diagrams
	STANDARDS
87	Bridge Excavation (LRFD)
88	Standard Pile Details
89	Supports and Spacers for Reinforcing Steel
90	Bridge Berm and Slope Protection

DESIGN DATA

DESIGN SPECIFICATIONS:

Superstructure (Reinforced Concrete Haunch Slab Design): AASHTO Specifications, 2007 Edition and latest Interim Specifications. Load and Resistance Factor Design.

Substructure: AASHTO Specifications, 2020 (9th) Edition and latest Interim Specifications. Load and Resistance Factor Design.

DESIGN LOADING: HL-93

> Design Dead Load includes an allowance of 15 psf for a future wearing surface.

UNIT STRESSES:

	Concrete (Grad	de 4.0) de 4.0)(AE) de 4.0)(AE)(SA) teel (Grade 60)	f'c f'c fy	= 4.0 ksi = 4.0 ksi = 4.0 ksi = 60 ksi = 50 ksi	
LRi	FD DESIGN Pl Design Loadir Abutment No. Abutment No.	ng (Tons/Pile) I	Strength I 60 60	Service I 42 42	Phi 0.50 0.50
RFD DESIGN DRILLED SHAFT L Design Loading (Tons/Shaft) Pier No. I Pier No. 2		Service I 216 216	End Bearing Phi 0.45 0.45	Side Frictic 0.50 0.50	
LFD & LRFR RATING FAC	Operating	3 2 1 NO.	REVISIONS	B`	Y APP'D
HS-20 (36T) 1.66 Type HET (110T) 2002 LFD Rating. 17th Edition	2.77 1.31 AASHTO	Br. No. 035-	DEPARTMENT OF T -056-128.97 (171) RAL NOTES AND	Sta. 450	ertifie
HL-93 Loading 1.63 2020 Manual for Bridge Evaluat	2.12 ion	S.Bd.	1-35 OVER LINC 35-056 KA-5714	OLN STREE	

SHEET NO.OFSCALEAPP'DDESIGNEDASFDETAILEDJAHQUANTITIESTKDESIGNCK.TKDETAILCK.ASFQUAN. CK.ASFCADDCK.CK.CK.CK.CADDCK.

permanent casing pipes for Sonic complete the sho Specifications s (Cased)". Use Gr shall the bottom	Construct the drilled shafts using the cased method. A g is required. All excavation, concrete, reinforcing steel, Testing, casing, labor, and incidentals necessary to aft as shown on the details and as directed by KDOT shall be included in the bid item "Drilled Shaft (48")	FALSE fal Pri 10:
	rade 4.0 Concrete in the drilled shaft. In no instance of the drilled shaft be placed higher than the unless otherwise directed by the KDOT Geologist.	KD FALSE wh fal
within the manth walls. Casing wi be set into bedro the risk that ove socket. A wet po	drilled shafts will need to be cased. Water movement le could cause caving and collapse of the excavation ill be required for drilled shafts. Casing will need to ock a maximum of 1.0 feet, less if possible, to reduce erburden, and groundwater does not enter the rock our may be anticipated if groundwter is not sufficiently of there is water flowing into the excavation.	fal all FALSE sys FALSE aff
Drill an Investig See KDOT Spec	ative Core Hole at the location(s) shown on the plans. ifications.	En
overtopped to re to over-pour the	of the top of the shaft is such that the casing cannot be emove concrete impurities, provide extra casing length e concrete in the shaft and chip back to the plan top of the shaft.	CAMBE Coi Ioa tha tha
lf permanent cas galvanized.	sing to be corrugated metal pipe (CMP) then it will be	PIER E Sp
important that th	illed shafts have end bearing components. It is ne bottom socket be clean and relatively flat. Allow no ithin the footing when the drilled shaft is ready to	res the En bet
Shales of the R degrade rapidly reinforcing stee completion of the	Poot Shale Formation and the Stotler Formation could in the presence of air and water. Place the al and concrete no more than eight (8) hours from e excavation of the shaft to minimize exposure time of and groundwater.	CONCRE sla alte sec the pla
to be done. Insta will be tested. A non-destructive, testing shall be Shaft) (Set Price the shaft, the En and the Contrace shaft. Report test	Lip all drilled shafts with piping to allow sonic testing all pipes at locations shown on the plans. All wet pours lso, the Engineer has the option to require sonic, integrity testing at any location of concern. Sonic paid for at the unit price set for "Sonic Test" (Drilled e). If the sonic testing indicates defective concrete in ngineer will measure the first sonic test for payment, stor is responsible for subsequent sonic testing of that st results directly to KDOT's Chief Geologist. No work we the top of drilled shaft without the approval of the	equ qua the adr cor Ap pla SLAB "SL and
one course deck anv exposed dec	ADS:Limited traffic is permitted on the new sub-deck, or any concrete overlay during the curing period, keep ok wet during the curing period. See KDOT Section 710,Tables 710–1 & 710–2 for additional	CORRAL TEMPE QUANTI
CONSTRUCTION SEC information see	QUENCING:For construction sequencing and phasing Roadway Plans.	<u>sui</u> DIMENS diri
Specifications S information. CONSTRUCTION SEC information see PERMANENT CASIN	'G: See KDOT Specifications.	roc CONST the sho

NOTES

EWORK PLANS: A licensed Professional Engineer shall design the alsework details. Details shall bear the seal of a licensed Professional Engineer. Submit electronic plans conforming to Section 05 of the Standard Specification with details in compliance with (DOT Specifications to the Field Engineer for review.

EWORK INSPECTION: This project has falsework plan requirements which are considered "Category" I" by KDOT specifications. The alsework designer of record will conduct an inspection of the as-built alsework. The bid item, "Falsework Inspection" is full compensation for all materials, labor and equipment. See KDOT Specifications.

EWORK PLANS AND SHOP DRAWINGS: Use the U.S. Customary system of units on falsework plans and shop drawing details.

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

SER: Provide camber as shown on the Camber Diagram unless the Contractor uses either long span steel beam falsework (concrete dead oad deflection greater than $\frac{1}{4}$ ") or timber falsework with greater han 12'-0" clear span. If either case exists, submit falsework plans hat show the additional required camber.

BEAM CONSTRUCTION: Cure the columns as required by the KDOT Specifications before beginning the pier beam construction (placing esteel or formwork). Do not drill and grout bolts or other devices into he columns used for falsework support unless approved by the Engineer. Cure the column as required by the KDOT Specifications before beginning to place the superstructure concrete.

RETE PLACING SEQUENCE: The sequence of placing concrete in the slab and curbs shall be as shown, or the Contractor may submit an Iternate placing sequence for review. Submit the alternate placing sequence to the Engineer at the Preconstruction Conference. Include he 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 he Contractor's alternate plan of placing concrete, including admixtures, shall be at the Contractor's expense and shall be considered <u>subsidiary</u> to the bid item, "Concrete (Grade 4.0)(AE)(SA)". Approval of the Contractor's alternate sequence is required prior to placement of concrete in the deck.

ELEVATIONS: The Contractor shall record elevation readings on the Slab Elevations" sheet in the table at locations designated by a "(2)" and submit the sheet to the Engineer.

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

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

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

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

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

- BRIDGE DECK GROOVING: After the bridge deck has cured, transversely be perpendicular to the centerline of the bridge.
- DEMOLITION PLANS: This is a <u>Category C</u> Demolition. Submit detailed Supervisor will attend the required pre-demolition meeting before these operations begin, as described in KDOT Specifications. No demolition work will begin without approved Demolition Plans.
- ASBESTOS INFORMATION: Samples of this structure were tested to in the components. The results are listed below:

Concrete (Abutment. Deck) Date of Report

For any result above greater than 1%, abatement shall be performed according to KDOT Specifications. Results less than 1% require no abatement.

DECK PROTECTIVE SYSTEM: Epoxy coat all reinforcing steel in the deck, slab, abutments, pier beams, columns and rails.

	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-57I4-0I	2023	60	200
ncvercelu					

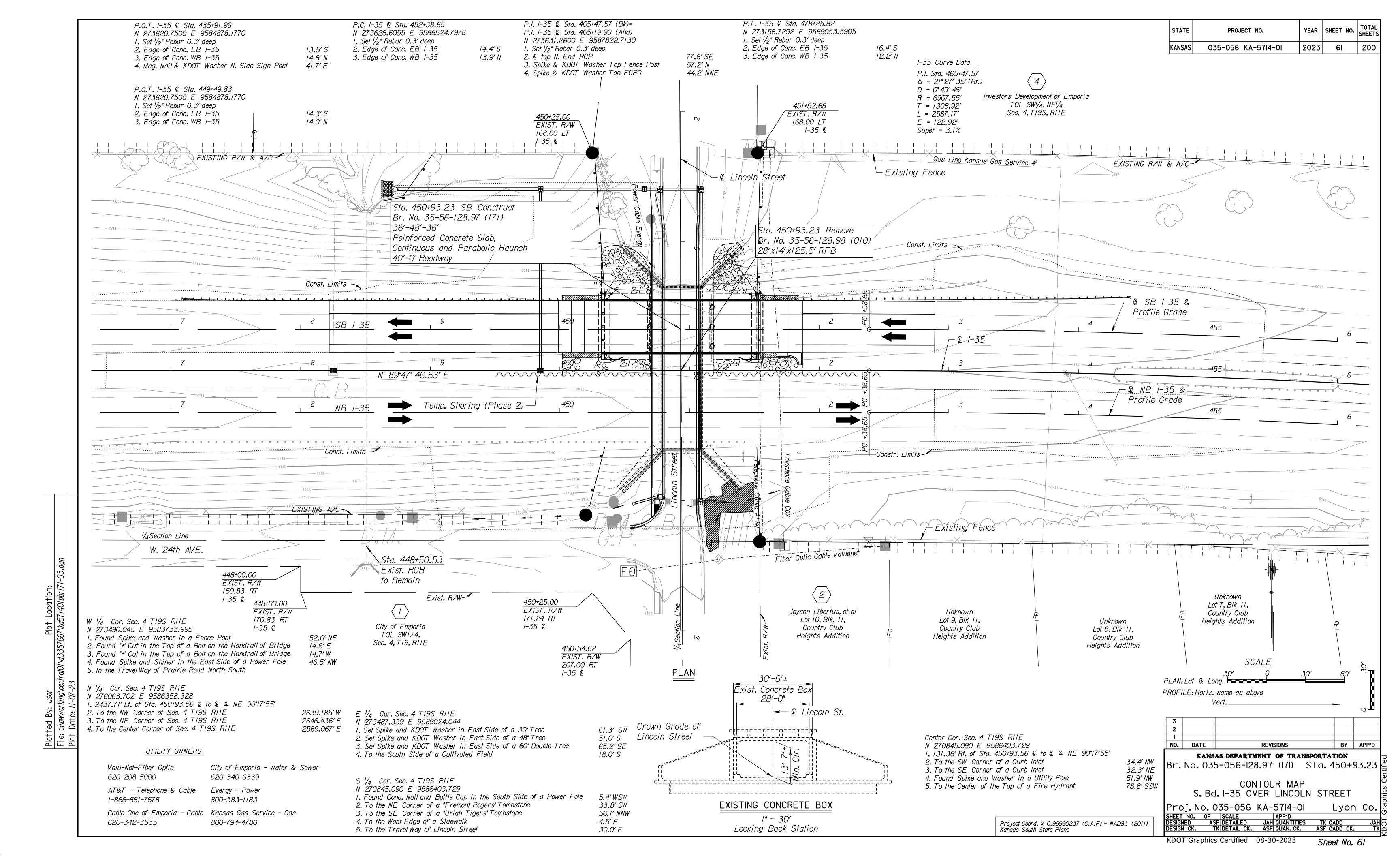
groove the deck in accordance with KDOT Specifications. For phased construction groove each completed phase before opening to traffic. Align the grooves from each adjacent phase across the bridge deck without jogs or discontinuities. For skewed bridges all grooving will

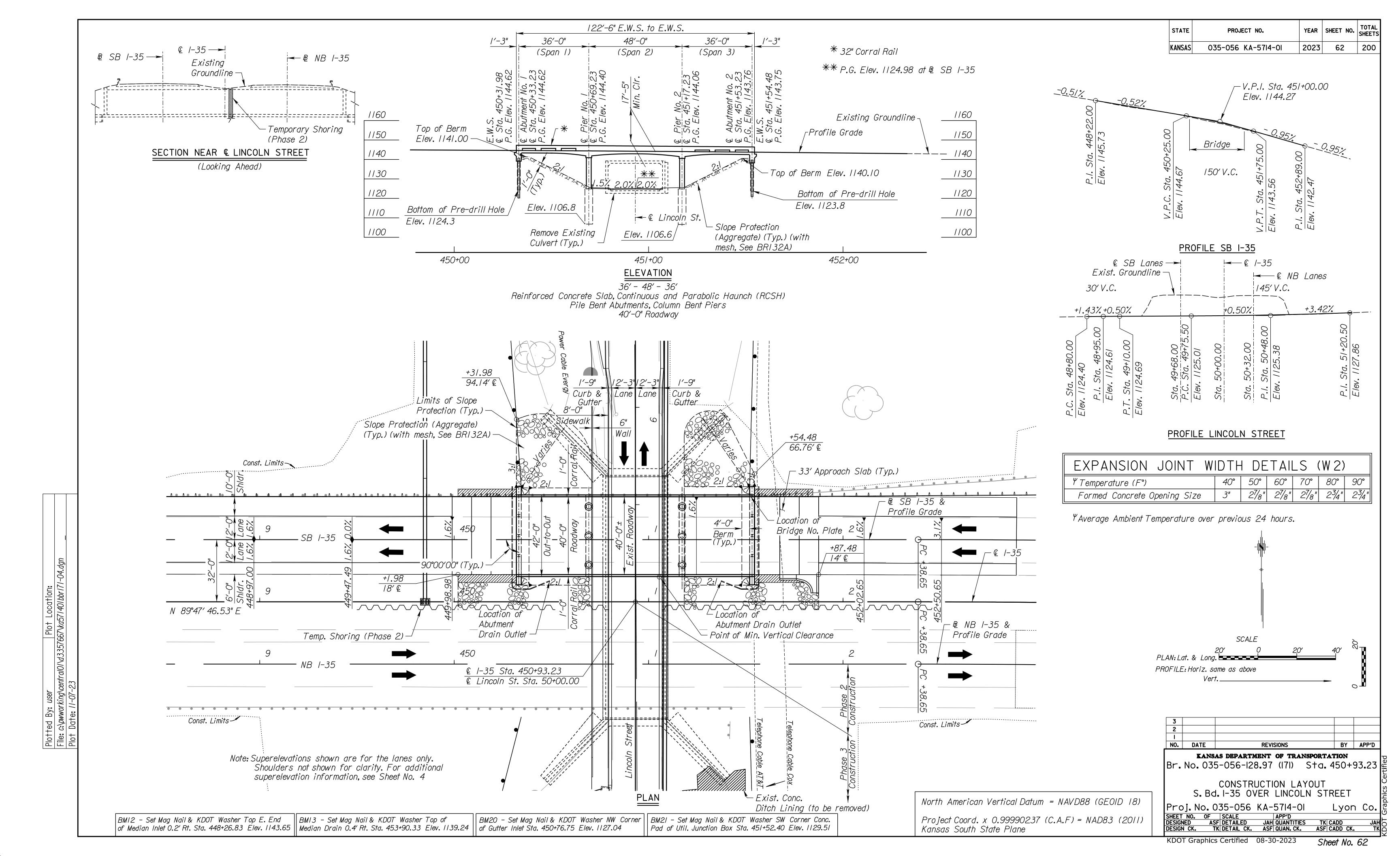
Demolition Plans to the State of Bridge Office (or Bureau of Local Projects) at least 4 weeks before beginning the demolition process. Portions of the submitted details shall bear the seal of a Licensed Professional Engineer. Identify, on the plans, the Demolition Supervisor meeting the requirements of the KDOT Specifications. The Demolition

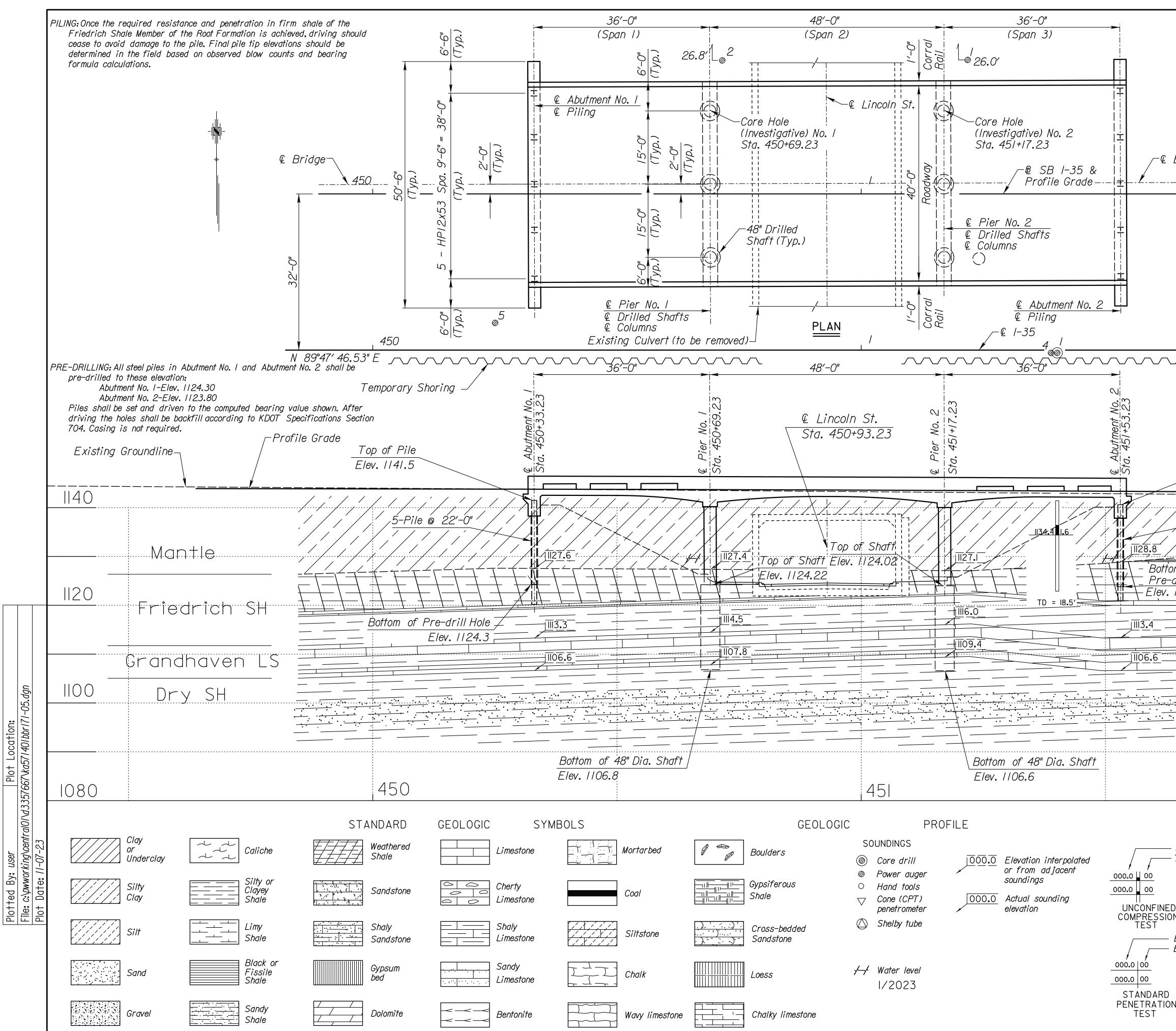
determine the amount of Asbestos Containing Materials (ACM) present

0% 12/07/2021

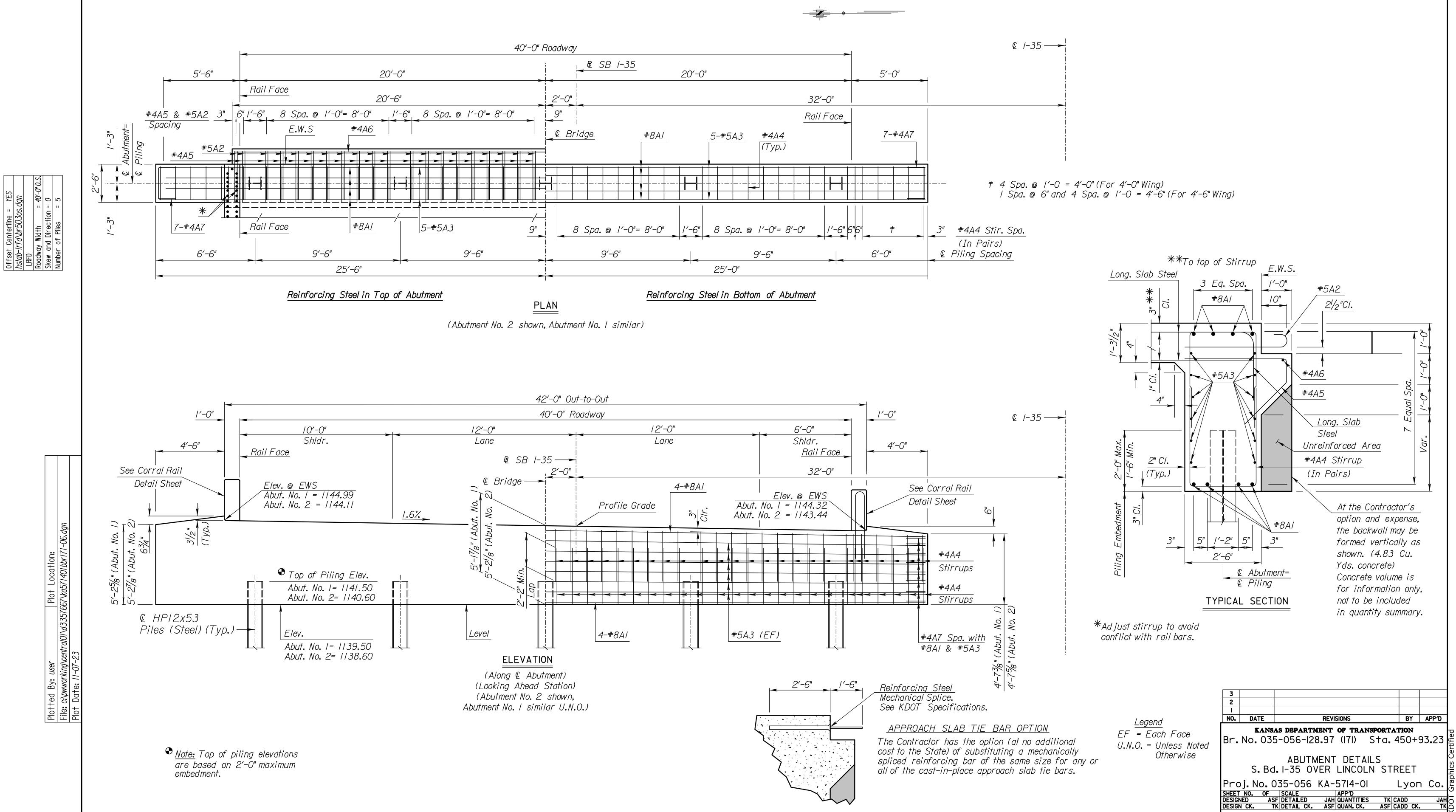
3						
2						
Ι						
NO.	DATE		REVI	SIONS	BY	APP'D
	KANS	AS DEPART	MENT	OF TRANSP	ORTATION	
Br.		-		(171) S	-	-93 . 23
	S.Bc	GEN 1.1-35 0	ERAL VER	. NOTES LINCOLN	STREET	-93.23 n Co.
Pro	j. No. (035-056	KA-	5714-01	Lyo	n Co.
SHEET		SCALE		APP'D		
DESIGN		SF DETAILED			TK CADD	
DESIG		K DETAIL CK.	ASF	QUAN. CK.	ASF CADD C	<u>n. Ik</u>
KD0	T Graphic	s Certified	10-2	5-2023	Sheet No	. 60





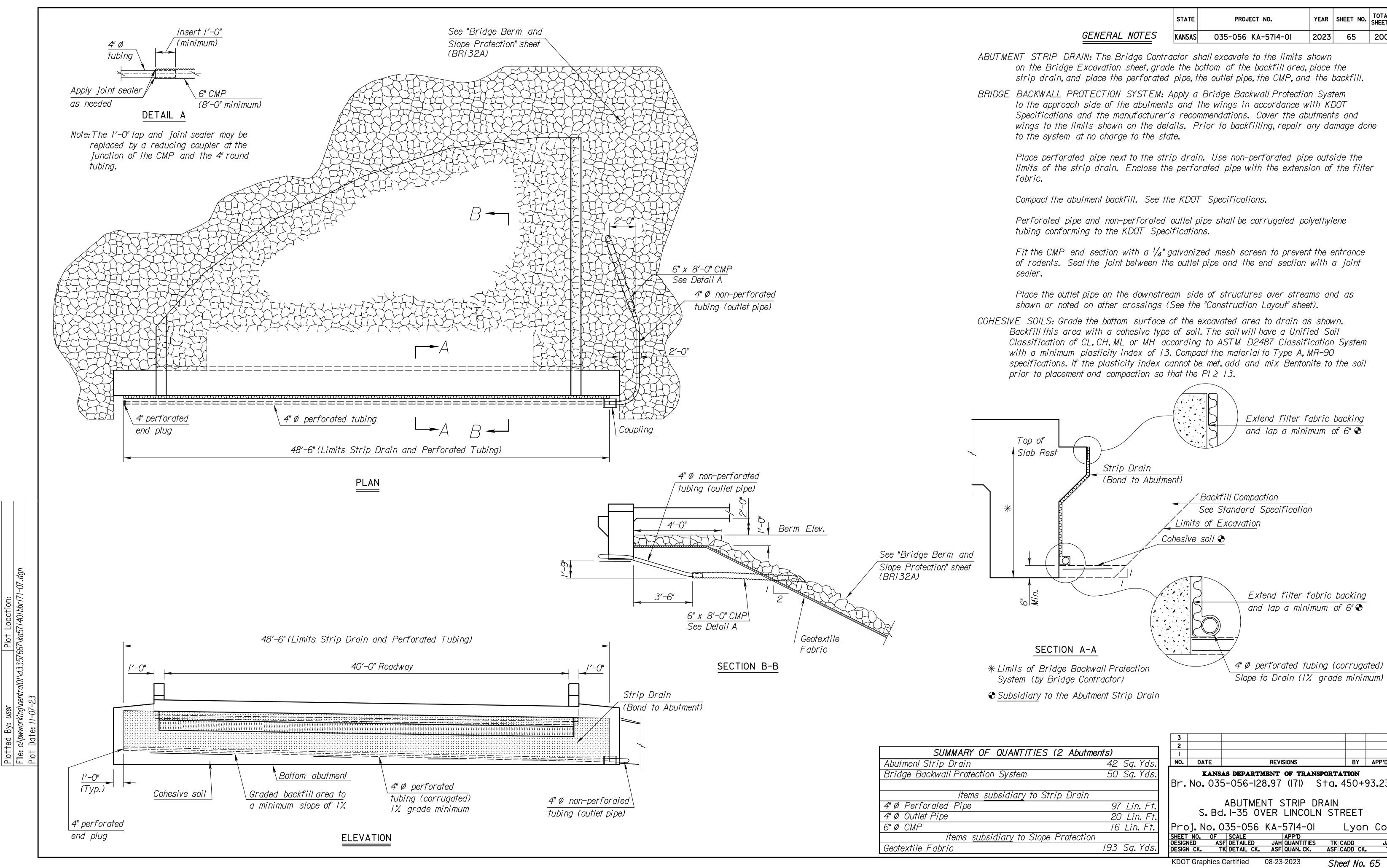


			CTATE	884		VELE		ΤΟΤΑΙ
1	2 1	6	STATE KANSAS		ест NO. КА-5714-01	YEAR 2023	SHEET NO.	SHEET
45.8′ [_@ DR Bridge	50.7 50	vations for drin aving and colle g will need to overburden, and undwater is no important that poting when the hale Formation water. Place th	lled shafts apse of the be set into l d groundwa of sufficient the bottom e footing is and the St he reinforci	will need to excavation bedrock a m ter does no ly sealed of shafts, note socket be ch considered otler Forma ng steel and	be cased. Water walls. Casing wi maximum of 1.0 t enter the rock f or if there is that the shafts f lean and relative ready to pour. tion could degra	2023 To movement Il be requ feet, less socket. A water flo have end ly flat. A nade rapid re than e	63 nt within th Jired for if possible wet pour owing into the bearing llow no loc ly in the bight (8) how	200 e e, to may the ose
 83.9′∫ [©] 3	Piles sha	nly Gr. 50 Stea						
Top of Pile Elev. 1140.6 5-Pile @ 20'-0"				 Mant	 le		4()
om of			Fr	iedr	ich SH		1120)
	$5.6 \underbrace{-}_{525} \underbrace{-}_{-} \underbrace{-} \underbrace{-}_{-} \underbrace{-}_{-} \underbrace{-}_{-}$		Gro	ndhe	oven L	S		
	2.6			Dr.y	SH		<u> </u>	J
- Elevation - Tons/sq. ft.	Graphic representation of Cone Penetr Test in N60	 400 T	from i bestin are pro from f Topeka bidder 3 2 1 NO. DATE Br. NO. (S. Proj. No	notes obtain formation a pvided with the Kansas for inspec s. NSAS DEPA 035-056 ENGI Bd. 1-35		and repre- these so nts, or ar ansporta d and qu and qu and qu Sta Sta OLOGY OLN S -OI	esent the undings re available tion in ualified BY TATION 1. 450+9 TREET Lyon	<u>APP'D</u>



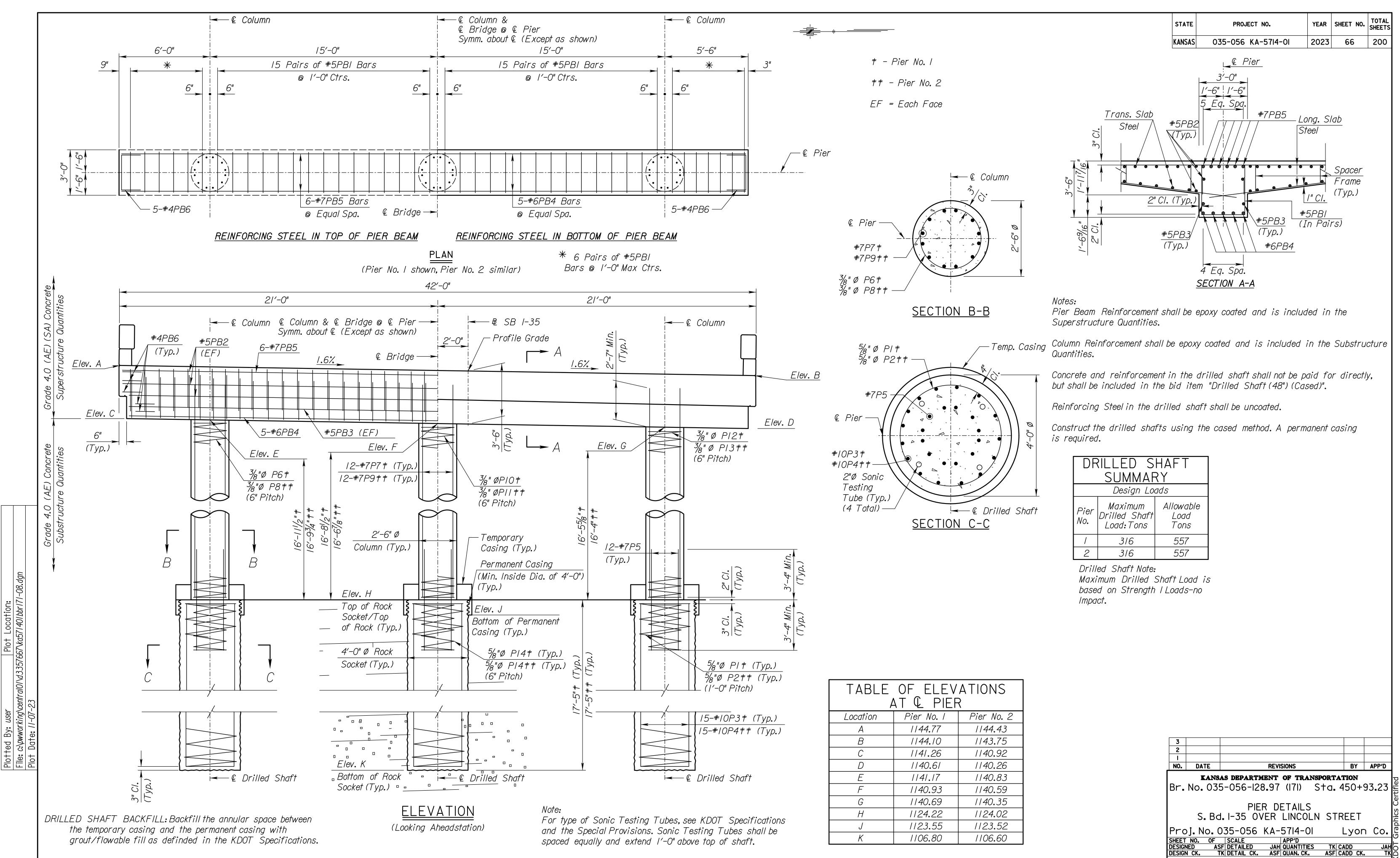
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	64	200

KDOT Graphics Certified 06-28-2023 Sheet No. 64



	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
<u>GENERAL NOTES</u>	KANSAS	035-056 KA-5714-01	2023	65	200

	42 Sq. Yds.	NU. DATE REVISIONS	BY APP'D
	50 Sq. Yds.		
		Br. No. 035-056-128.97 (171) Sta	450+93 . 23
o Strip Drain			
	97 Lin. Ft.		
	20 Lin. Ft.		
	16 Lin. Ft.		Lyon Co.
lope Protection		SHEET NO. OF SCALE APP'D DESIGNED ASF DETAILED JAH QUANTITIES TK	
	193 Sq.Yds.		CADD JAH CADD CK. TK
		KDOT Graphics Certified 08-23-2023	poot No 65

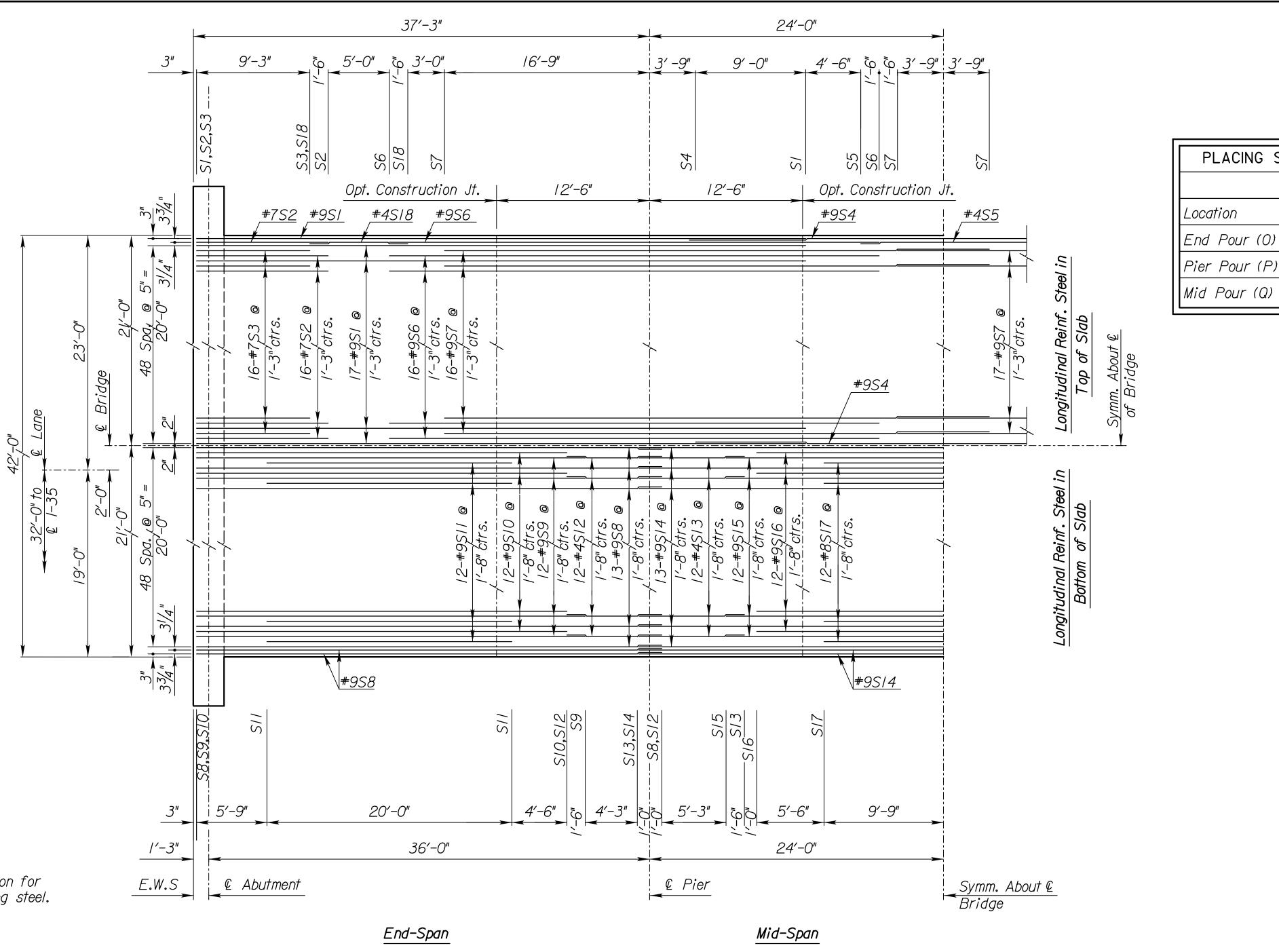


KDOT Graphics Certified 11-06-2023 Sheet No. 66

Irfd/hr519ns dan	DIAT 2
a war of own age	1 101 2
Roadway Width = 40' 0.5	40' 0.S. Longest Span Length = 48'
Skew and Direction = 0	Total No. of Spans = 3
Loading = HL-93	: HL-93 Railing Type = Corral



Plotted By: user	Plot Location:
File: c:\pwworking\central0I\d3357667\ka571401bbr171-09.dgn	67\ka57 40 bbr 7 -09.dgn
DIA+ DA+A: 11-07-03	



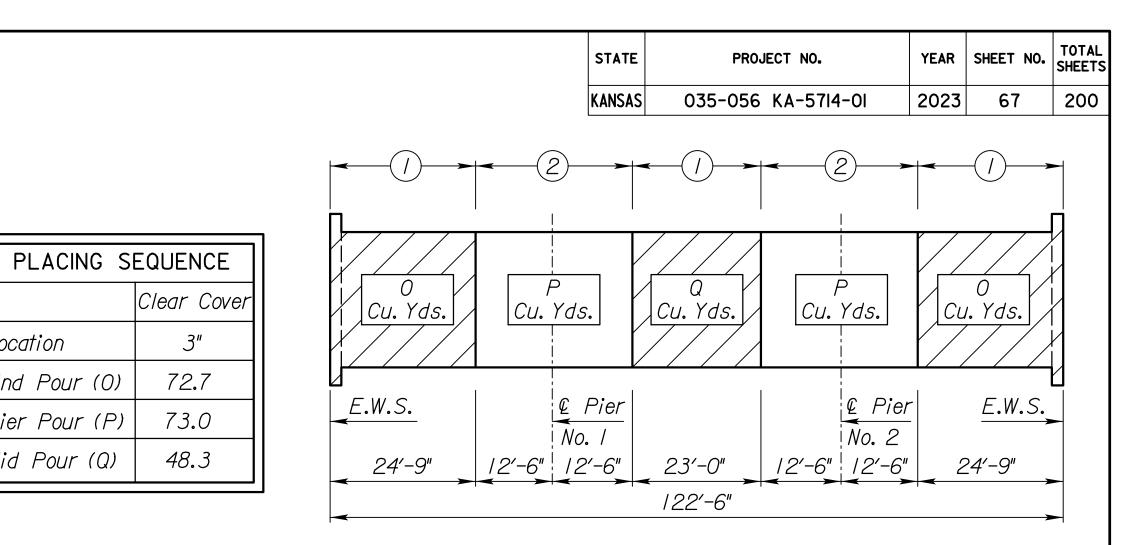
Note: See longitudinal section for transverse reinforcing steel.

Note: I.O & 4.0 pts. are taken at € of abutments 2.0 & 3.0 pts. are taken at € of piers

	Top of Form Elevation at 10th Points, (ft.)														
1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
//43.35	1143.34	1143.34	1143.33	1143.30	1143.23	1143.13	1142.99	1142.81	1142.61	1142.38	1142.62	1142.82	1142.95	1143.02	1143.03
2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	
1142.95	42.8	1142.61	1142.35	1142.04	1142.22	1142.37	1142.49	1142.58	1142.63	1142.65	1142.62	1142.58	1142.54	1142.49	

Note: Elevations are taken at Profile Grade. Note: The change in elevation from Profile Grade to the Edge of Slab is -0.304' short side +0.368' long side

HALF PLAN



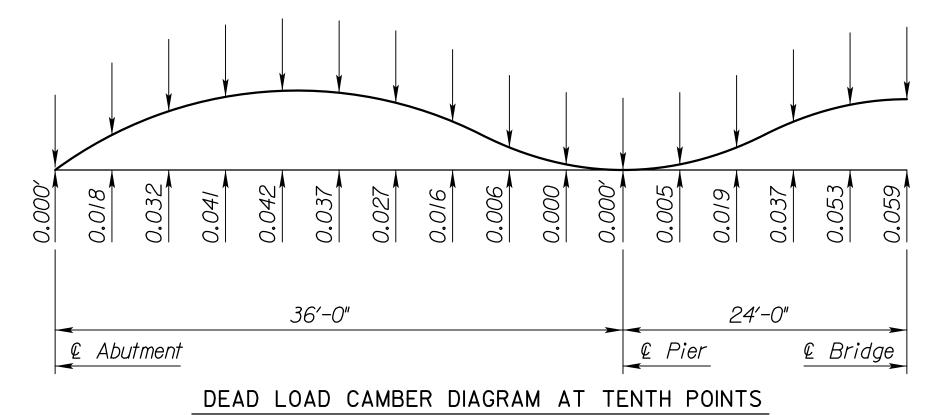
CONCRETE PLACING SEQUENCE DIAGRAM

CONCRETE PLACING SEQUENCE

When long span steel beams having a concrete dead load deflection greater than $\frac{1}{4}$ are used or when timber falsework with greater than 12'-0" clear span is used, follow the placing sequence shown. Segmental, combined or continuous pours are allowed, but stop a discontinuous pour at a construction joint short of a pier.

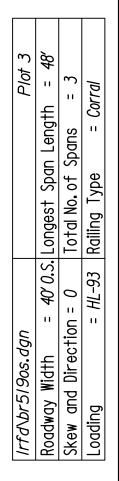
When timber falsework with 12'-0" or less clear span is used, the Contractor, subject to the approval of the Engineer, may use a continuous pour or may discontinue the pour at any construction joint shown.

The Contractor may place the corral rail continuously from one end of the bridge to the other.

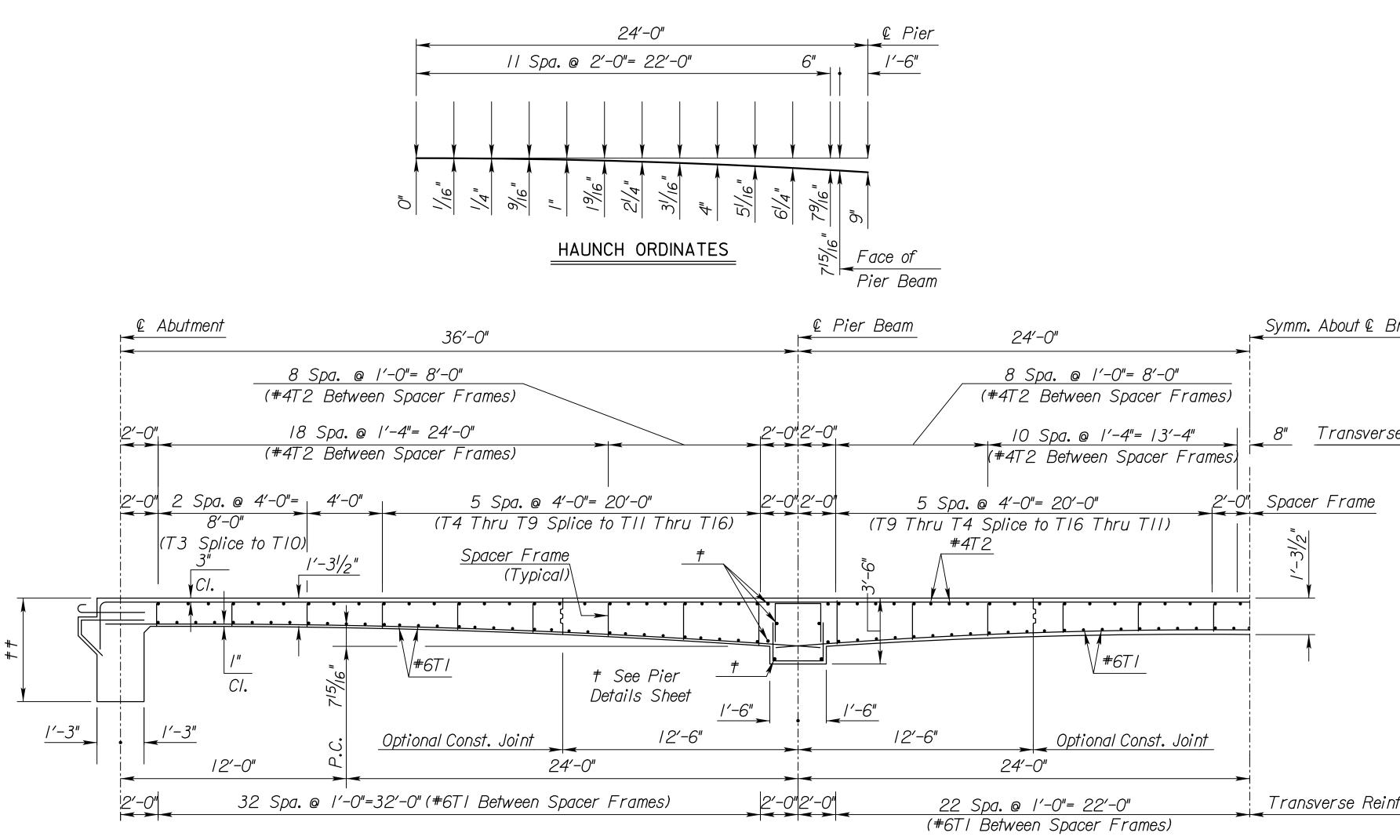


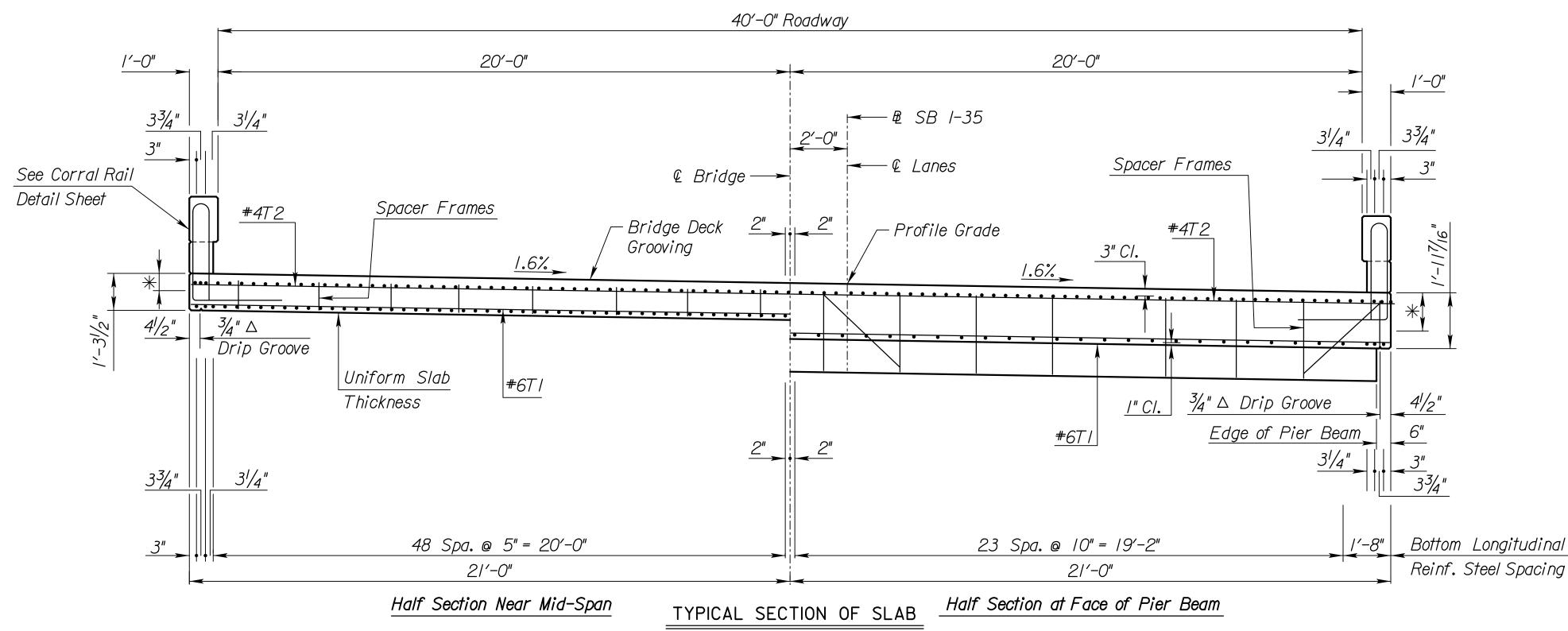
Long Term Deflections = Initial Deflections x 3.5 (Initial Deflections Based on E_c = 3.644 x 10⁶ p.s.i.) (camber values in feet)

4							
3							
2							
NO.	DATE		REVI	SIONS		BY	APP'D
	KAN	SAS DEPART	MENT	OF TRAN	SPORTAT	TION	
Br.	NO. US	35-056-12	.8.91		STA. 4	50+3	13.23
							93.23
		SUPERST					C
						+	
	2. B	d.I-35 0	VER	LINCOLI	N SIR	EE I	-
	• • • •						n Co.
ILLC	J. NO.	035-056	KA-	5/14-01	l	_уог	n Co.
SHEET				APP'D			
DESIGN		ASF DETAILED	JAH			DD	JAH
DESIG	N CK.	TK DETAIL CK.	ASF	QUAN. CK.	ASF CA	DD CK.	ΤΚ
KD0	T Graphi	cs Certified	08-24	4-2023	Shar	et No.	67
			55 E	0	SINCE	<i>i ivo</i> .	01









-10.dgn Plotted By: user | Plot Location: File: c:\pwworking\central01\d3357667\ka571401bbr171 Plot Date: 11-07-23

HALF LONGITUDINAL SECTION ALONG & BRIDGE

(Looking Ahead Station)

	STATE		PROJECT	Г NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	03	35-056 K/	4-5714-01	2023	68	200
Bridge							
se Reinforcing Steel							
pforoing Stool							
nforcing Steel							
	4						
* See Corral Rail Detail Sheet	3 2						
	I NO.	DATE		REVISIONS		BY	APP'D
.,	Br N/		AS DEPART	rment of t 28.97 (171	RANSPOR	TATION	
		S. Bo	1.1-35 C	RUCTURE	DETAT	LS TREET	
		No. (035-056	5 KA-5714		Lyon	Co.
	SHEET NO DESIGNED DESIGN CI	0. OF AS K. T	SCALE SF DETAILED TK DETAIL CK	APP'D JAH QUAN . ASF QUAN.	rities t	K CADD F CADD CK.	JAH TK
				06-28-202			l>

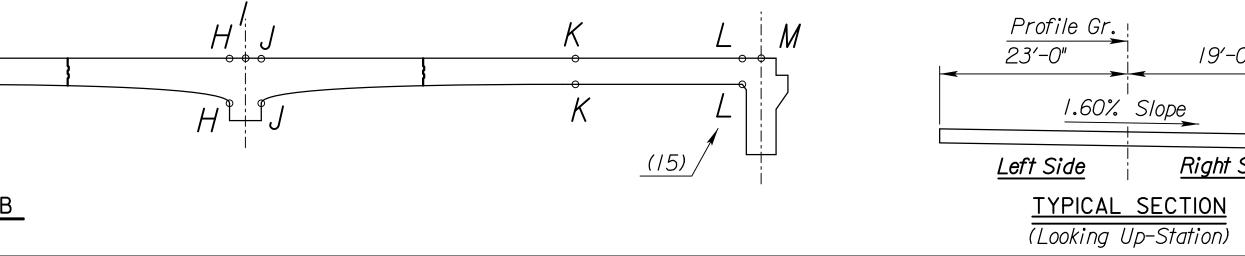
KDOT Graphics Certified 06-28-2023 Sheet No. 68

									SLAB ELE	EVATIONS						STATE	PROJECT NO.	YEAR SHEET NO. SHEET NO.
					For	mwork			Screed			Thickness		Deck	. Profile	KANSAS 03	5-056 KA-57I4-0	l 2023 69 2
/	2	3	4	5	6	7	8	9	10	//	12	/3	14	15	16	1		Datas (2)
Survey	Station	<i>† Location</i>	Transverse	Estimated	Target	Actual	TOF	Target	Actual Bottom	Screed	Plan	Measured	Deck	Plan	Actual			our Dates (2) Deck
			Location	Falsework Crush	Elevation TOF	Elevation TOF	Variance (QA/QC)	Screed FI. = TOC FI.	of Screed Elevation Prior	Variance (QA/QC)	Deck Thickness	Deck Thickness	Thickness Variance	TOC EI.	TOC EI. Optional			Left Rail (I.
					1.01				to Pour		1111001000	11110011000	(QA/QC)		Survey			Right Rail(1
	(1)(16)	(13)	(/3)	(inch) (1)(4)	(1)(6)	(2)	(± inch) (2)(5)	(1)(6)	(2)	(± inch) (2)(7)	(inch) (1)	(inch) (2)(8)	(± inch) (2)(9)	(1)	Date: (3)			
	(7)(70)		Left Fascia					//44.98	(2)			(inch) (2)(8)		//44.98		4	Surv	/ey Data (/)(//)
Λ	450+33.23	€ Brg. of	Profile Gr.					1144.62				\times	+///	1144.62		1	Bench Mar	
A	100 00.20	Abut. #1	Right Fascia			$\langle / / / / / / / / / / / / / / / / / / /$	$\left\langle \right\rangle / \left\langle \right\rangle$	1144.31						1144.31		1	12	//43.65
		Interior	Left Fascia		1143.69						151/2"			1144.98		1	/3	//39.24
R	450+34.48	Face of	Profile Gr.		//43.32						151/2"			1144.61		1	20	//27.04
		Abut. #I	Right Fascia		1143.01						151/2"			44.3			21	1129.51
		4/10 Point	Left Fascia	1/4"	//43.67			1144.97			15%6"			1144.90			Crown G	rade Profile(/)(/
C	450+47.63	from	Profile Gr.	1/4"	//43.30			1144.60			15%6"			1144.53		1	451+00	.00 VPI Station
<u> </u>		Abut. #/	Right Fascia		1142.99			1144.29			15%6"			1144.23		1	1144.2	27 VPI Elevatio
		Span #1	Left Fascia	1/4"	1142.85						237/16"			1144.78		-	-0.52	
D	450+67.73	Face of Pior Boam	Profile Gr.	1/4"	1142.48				· · · · · · · · · · · · · · · · · · ·		237/16"			1144.41	$\langle / / / / / / / / / / / / / / / / / / /$	4	-0.95	
		Pier Beam	Right Fascia	//4"	1142.18						237/16"			//44.//			/50.0	00 L in Station
_	450,00 03	€ Brg.	Left Fascia				$\langle / / / \rangle$	//44.77				+///	$\left\{ / / \right\}$	1144.77		Slab Thi	ckness (/)	Span Data(/)
E	450+69.23	Pier #I	Profile Gr. Right Fascia	$\langle / / / / \rangle$	\leftarrow	+	$\left\langle \right\rangle $	// <i>44.40</i> // <i>44.10</i>						//44.40 //44./0		151/2" Unifor	m Depth (inch) _F	IL-93 Design Loading
		Span #2	Left Fascia	1/4"	1142.83						237/16"			//44.76		1 ₇ /5/ " Haun	ich Depth @ 🔽	36 Span #1 (ft)
	450+70.73	Face of	Profile Gr.	1/4	1142.46					/ / / /	237/16"			1144.39			of PB (inch) -	48 Span #2 (ft)
		Pier Beam	Right Fascia	1/4"	1142.16						237/16"			1144.09	1////		nch Depth @ – Point (inch)	3 Clear Cover (inc
		Midpoint	Left Fascia	1/4"	//43.39			1144.69			151/2"			1144.61				
G	450+93.23	of	Profile Gr.	1/4"	//43.03			1144.32			151/2"			1144.24			Roadway	
		Span #2	Right Fascia	1/4"	1142.72			1144.01			151/2"			//44.93			42	Deck Width (ft) (1-
, ,		Span #2	Left Fascia	1/4"	1142.51						23 ^{7/} 16"			1144.44			+1.6%	% Slope Left (±)
H	451+15.73	Face of	Profile Gr.	1/4"	1142.14						237/16"			1144.07			-1.6%	% Slope Right (±)
		Pier Beam	Right Fascia	1/4"	1141.83						237/16"			1143.77			00:00:00	Skew (dd:mm:ss)
,		€ Brg.	Left Fascia			$\langle / / / / \rangle$		1144.43						//44.43		4	Cambe	er (/)(/;
/	451+17.23	07 Pier #2	Profile Gr.		$\langle / / / / \rangle$		$\left\langle \right\rangle / \left\langle \right\rangle$	//44.06						1144.06			0.042	Span #1 0.4 Point(f
			Right Fascia Left Fascia	1/4"	1142.48			//43.75			237/16"			//43.75 //44.4/		ł 🗌	0.059	Span #2 Midspan (fi
./	451+18.73	Span #3 Face of	Profile Gr.	1/4	1142.11					/ / / /	237/16 237/16"			//44.05		1		
0	431.10.13	Pier Beam	Right Fascia	· · ·	//4/.8/				1		237/16"			//43.75	+////////////////////////////////////	(I) By the	Design Engineer	
		4/10 Point	Left Fascia	1/4"	1143.01			//44.3/			15%6"			1144.25		1 (2) By the C		
K	45/+38.83	from	Profile Gr.	1/4"	//42.65			//43.95			15%6"			1143.88		- (3) By Requi	est ed crush for tv	pical falsework. Revis
		Abut. #2	Right Fascia	1/4"	1142.34			1143.64			15%6"			1143.58				ccurate information
,		Interior	Left Fascia		//42.84						151/2"			44. 4			available.	
	451+51.98	Face of	Profile Gr.		1142.48						151/2"			1143.77		(5) (col 7 –		imber must be include
		Abut. #2	Right Fascia		1142.17						151/2"			1143.46		(7) (col 10 -		
11		€ Brg.	Left Fascia			$\langle / / / / \rangle$		//44./3						//44./3		(8) (col 10 -	- col7)x12	
M	451+53.23	$\int of f = \frac{1}{2} \int f = \frac{1}{$	Profile Gr.					1143.76						1143.76		(9) (col 3 -		bridge, then enter
		Abut. #2	Right Fascia					//43.45						1143.45			for the % Slope	•
		+ Ctationing	bown increasio	<i>a</i>					TE The Contractor	r will outmit a op	mplatad	* It is assu	umed that piling have	e been driven	to design	(11) From "Co	onstruction Layo	ut" sheet
		Stationing 8	shown increasin	g					TE: The Contractor y of this table to 1		•		nd checked by ENR					ertical curve, enter elevation from the
									inserted into the A			No allowar	nce for pile settleme	nt is included	in crush.			et. Represent a chang
																in grade	with GI only.	
																(13) Looking ((14) Out-to-Ou		
																(14) 001-10-00 (15) Ignore F		
																(16) Non-skew	ved bridges only	v require ∉ stations.
																(17) Ignore th	neoretical camber	at face of pier bean
																3 2		
							,											

Plotted By: user | Plot Location: File: c:\pwworking\central0/\d3357667\ka571401bbr171-11.dgn Plot Date: 11-07-23

E D↓*F* AB С G **└ ↔ ↔** BС G D + F(15)

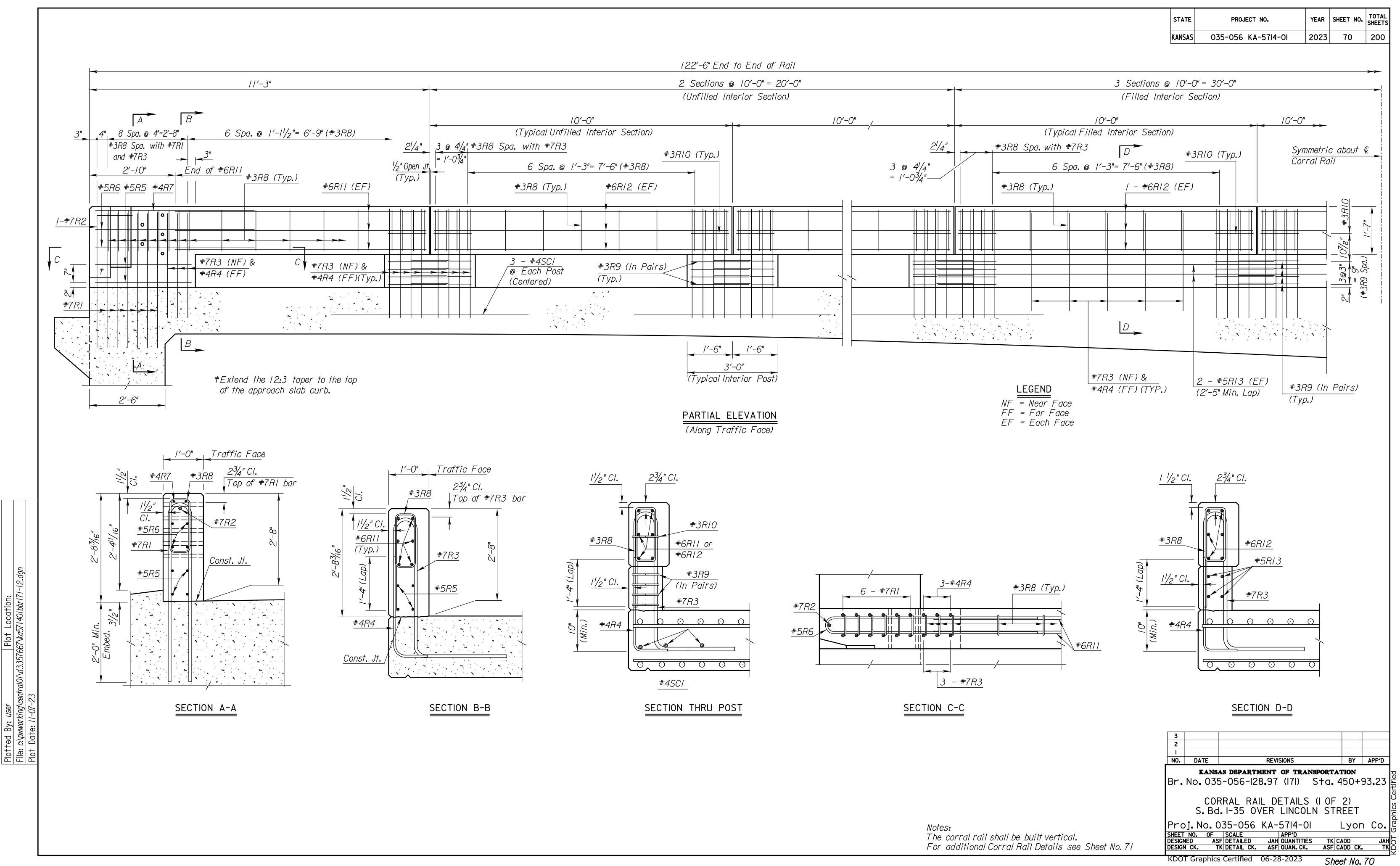
ELEVATION OF SLAB

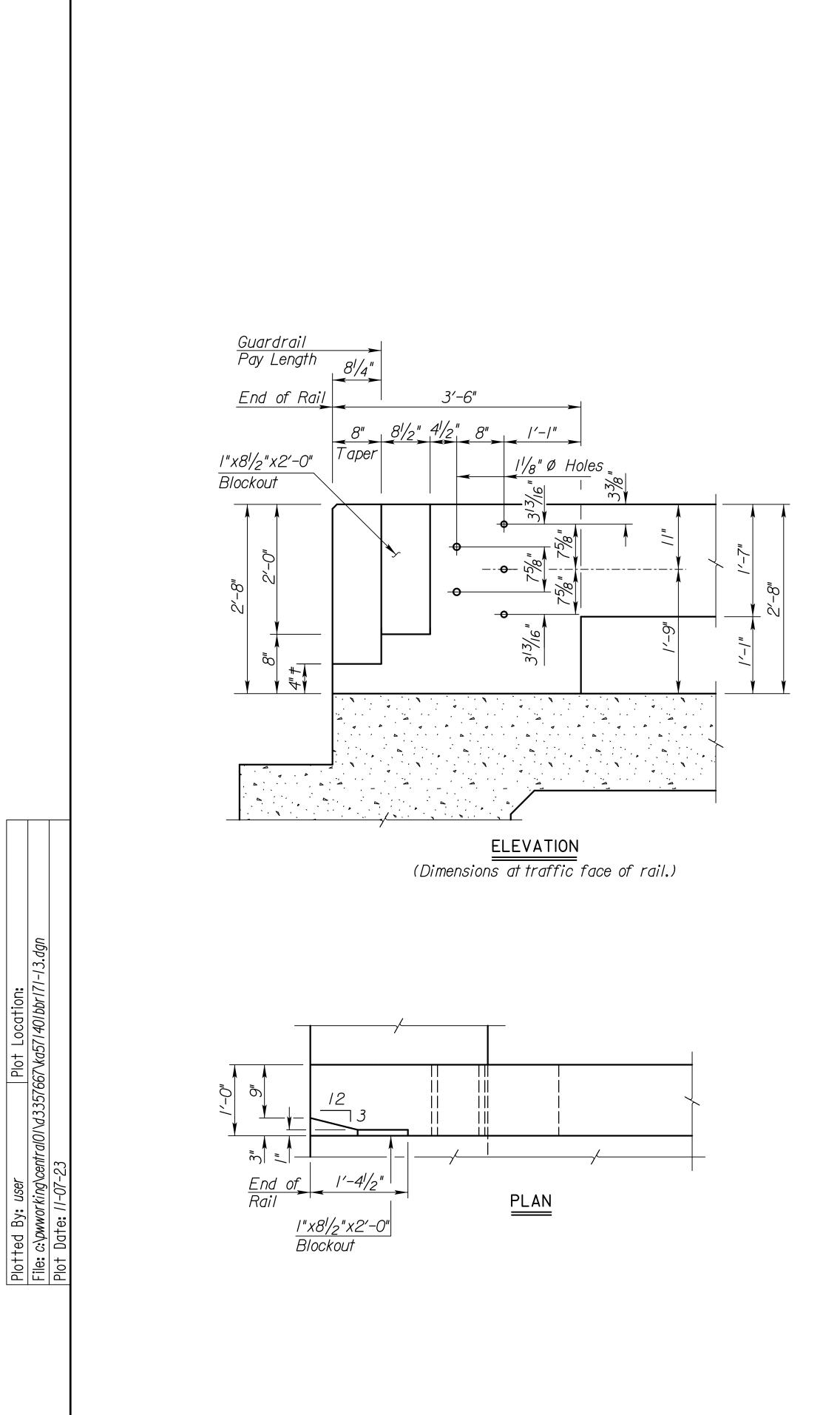


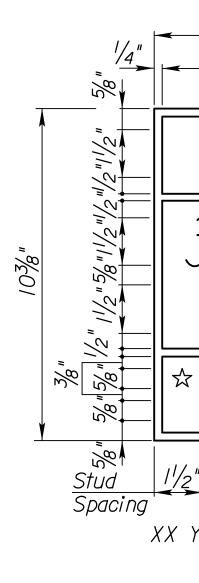
	3							
	2							
	1							
	NO.	DATE		REVISIONS		BY	APP'D	
		KANS	AS DEPARTI	MENT OF 1	TRANSPORTA	FIO N		T
	Br.	No. 03	5-056-12	8.97 (17)) Sta. 4	150+9	93.23	tifie
Legend TOF = Top of Formwork		S.Bc	SLAE 1.1-35 0'	3 ELEVA VER LING	TIONS COLN STR	EET		ahirs Cer
TOC = Top of Concete	Pro	oj.No.(035-056	KA-5714	1-01	Lyor	n Co.	
QA = Quality Assurance QC = Quality Control	SHEET DESIGI DESIGI	NED AS	SCALE SF DETAILED K DETAIL CK.	APP'D JAH QUAN ASF QUAN	TITIES TK C	ADD ADD CK.	JAH TK	
	KDO	T Graphics	s Certified	06-28-202	²³ She	et No.	69	×

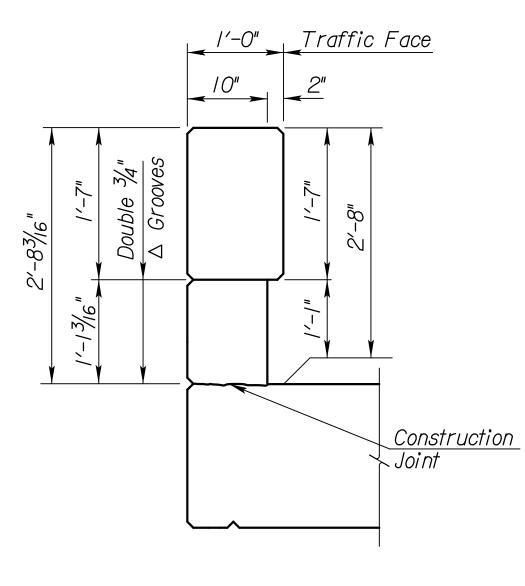
19′-0″

Right Side

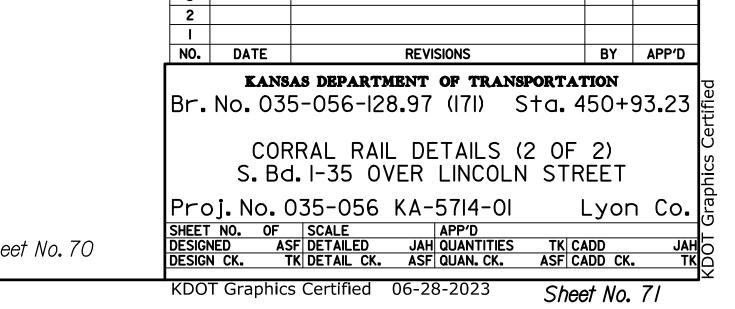




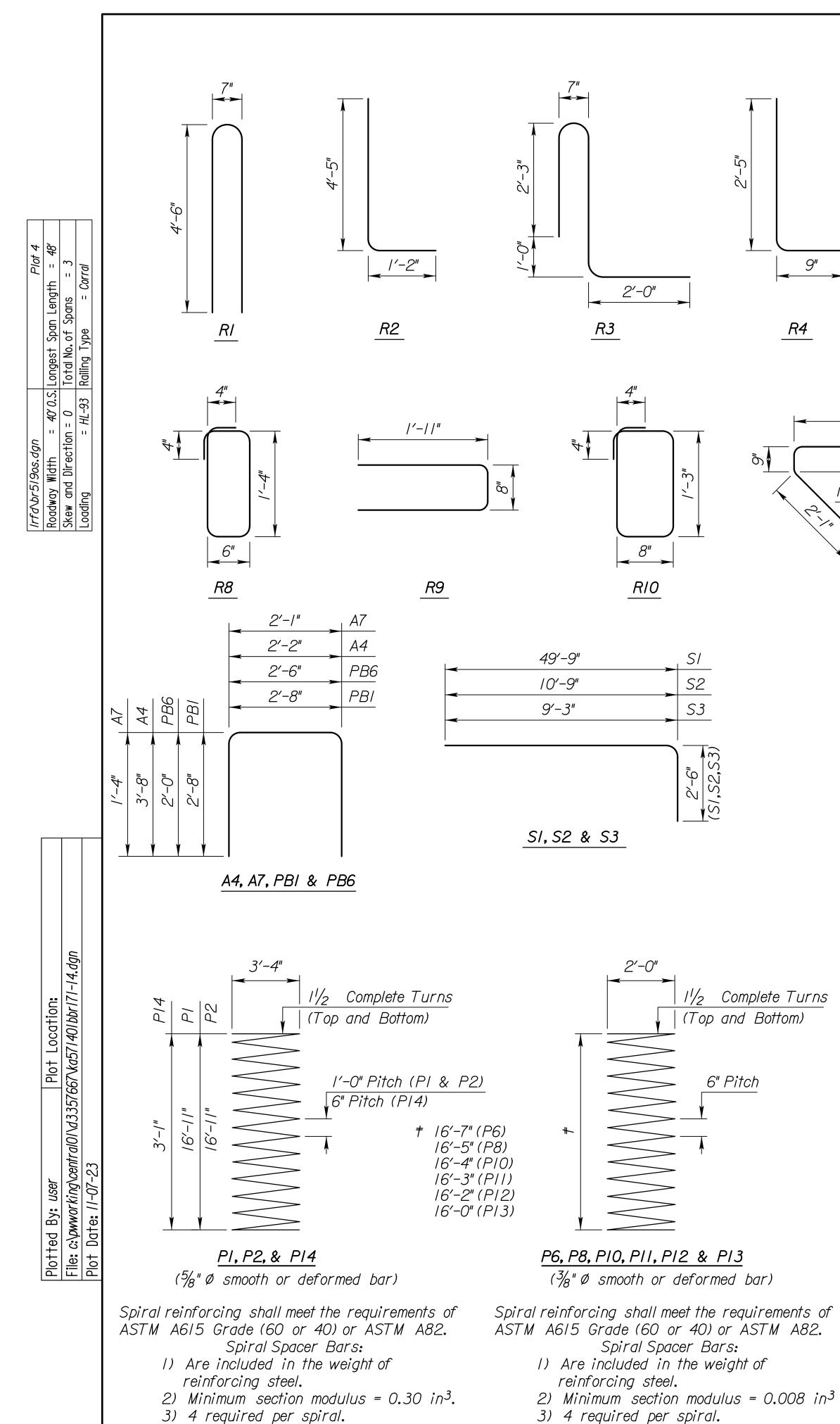


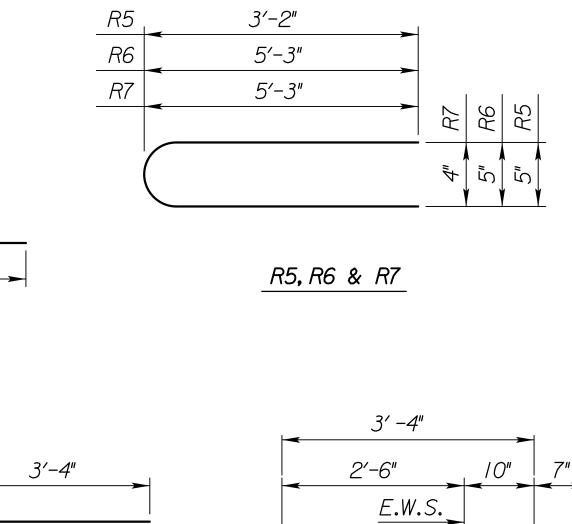


TYPICAL INTERIOR POST



Note: For additional Corral Rail Details see Sheet No. 70



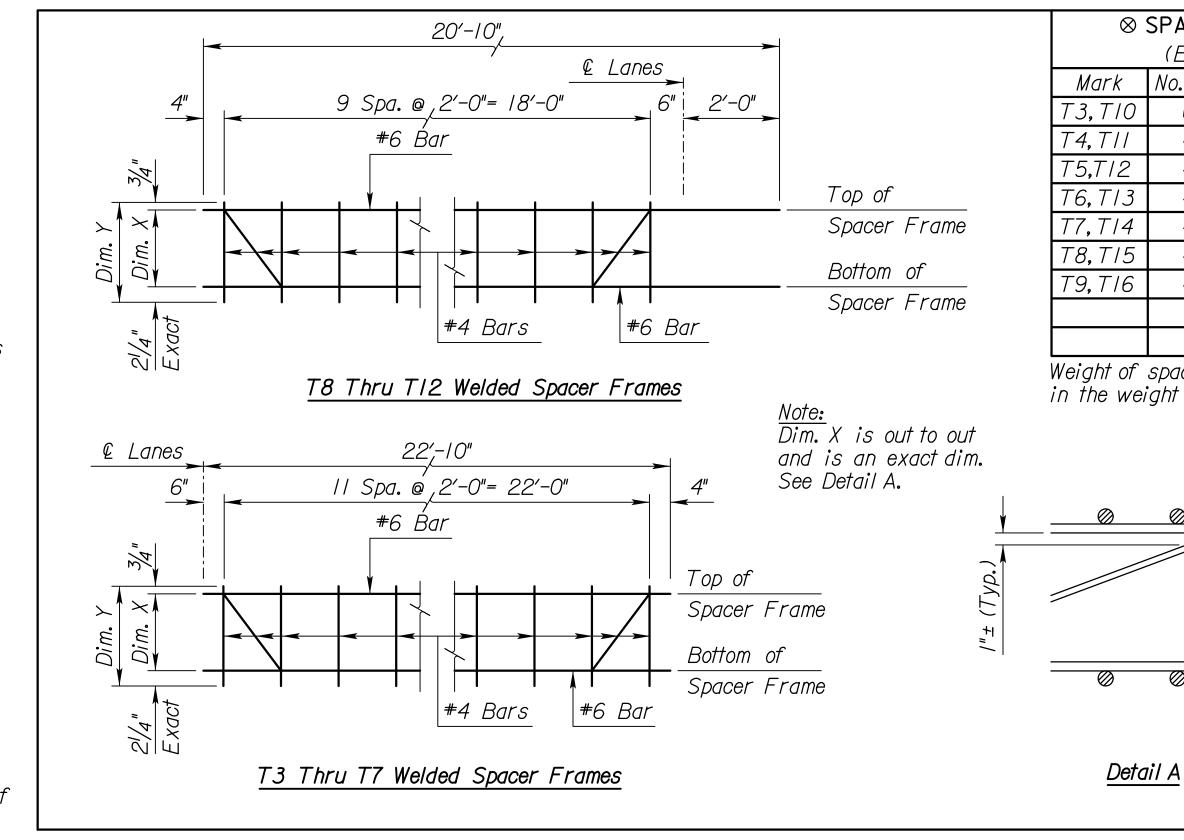


<u>A2</u>

-53/4"

A5

													STATE	PR	OJECT NO.		YEAR	SHEET NO.	TOT/ SHEE
												I	ANSAS	035-05	6 KA-57I	4-01	2023	72	20
					FORCING ted - (ORCING d - Gr]
	C S		nt Bar	-			Bars				S	traigh	nt Bar	S		Bent	Bars		
	Mark	Size	Number			Size	Number				Mark	Size	Number	Length	Mark	Size	Number	Length	
	P3 P4	#/0 #/0	45 45	/6′-//" /6′-//"	<i>PI</i> <i>P2</i>	5/, " 	3	\otimes			S4	#9		40'-6"	S/	#9	72	52'-3"	_
	P5	#/0	72	6′-8″	P14		6	\otimes			S6 S7	#9 #9	68 64	40'-0" 44'-6"	RI	#7	24	9′-3″	-
						/0					S8	#9	60	38'-0"	R2	#7	4	5'-7"	_
											S9	#9	48	3/'-9"	<i>R3</i>	#7	218	7'-9"	
											S10 S11	#9 #9	48 48	30′-3″ 20′-0″	S2 S3	#7 #7	68 64	/3'-3"	4
											S/4	#9 #9	30	20 -0 50'-0"	55	" /			-
2 C											S/5	#9	24	35′-6″	A2	#5	80	3'-11"	-
										a:	S/6	#9	24	30′-6″	<i>R5</i>	#5	8	6′-6″	_
										ľ	A/	#8	16	50'-2"	R6	#5	8	10'-8"	-
											S/7	#8	24	19'-6"	A4	#4	202	9'-4"	-
	⊗ Se	ee Bendi	'ng Diagr	am											A5	#4	80	6'-2"	
	-		-	PI4 ba	nrs are a	II consid	lered				RII	#6	24	8'-3"	A7	#4	32	4'-9"	
Dal	rt of the	drilled	shafts.						Ð	+	RI2	#6 #6	120	9'-8"	R4 R7	#4 #4	218	3'-2"	_
										nen†		#6	81	4/′-8″		#4	4	/0′-8″	-
									uctur	n+m	A3	#5	24	50'-2"	<i>R8</i>	#3	332	4'-4"	-
									stri		R13	#5	16	7'-7"	R9	#3	176	4'-6"	
												<u> </u>	0		RIO	#3	44	4'-6"	_
									Super		A6 S5	#4 #4	2	40′-8" 3′-6"	T3-T16			\otimes	-
									S		S12	#4	48	7′-9″	10110				-
											S/3	#4	48	8'-9"					
											S18	#4	4	8'-0"					_
											SCI T2	#4 #4	66 62	6′-6" 4/′-8"					4
				Т	🛇 🕻		FRAME	<u>د</u>											-
	>						Coated)	5											-
\sim						No. Ea.		Dim. Y											
2 -	-0"				T3, T10	6	<i>9</i> "	/'-0"			PB5	#7	10	4/′-8″	PBI	#5	168	8'-0"	4
					T4, T11 T5,T12	4	9 ¹ /16" 9 ⁹ /16"	/'-0 [/] / ₁₆ " /'-0 ⁹ / ₁₆ "		E E		<i>#7</i>	12	41 -0	ΓΒΙ	# 5	160	0-0	-
		Top of			T6, T13	4	10%6"	1'-19/16"		Bed	PB4	#6	10	40′-8″	PB6	#4	20	6′-6″	-
		Spacer	Frame		T7, T14	4	1'-0 ¹ / ₁₆ "	'-3 / ₁₆ "		Ι.									
		Bottom	of		T8, T15	4	1'-2 ¹ /16"	1'-5 ¹ / ₁₆ "		Pier	PB2	#5 #5	12	41′-8" 40′-8"					4
			Frame		T9, T16	4	'-4 ⁹ / ₁₆ "	′-7 ⁹ / ₁₆ "			PB3	# 5	4						-
				F						0	P7	#7	36	19′-5″	P6	3/ "	/	\otimes	
							rames in			⊥ L	P9	#7	36	/9′-3″	P8	3/ " /8		\otimes	
	Note). 		ir	n the weig	gnt of r	einforcing	, steel.		LC+					PIO PII	3/ " 	/	\otimes	-
			ut to out xact dim.							└_ ┿					P12	78 		\otimes	-
_		Detail A								Subs					P13		/	\otimes	-
-				↓ _	Ø	<u> </u>				รี									
											⊗ See	Bending	Diagra	m					
P		_	L	(<i>I</i> , <i>y</i>),			" <u>+</u>)	n. X											
аС	er Fram	е	ŗ				(1 y P•')	Dii											
ttc	om of	_		+ 			⊐	¥											
аС	er Fram	е			\bigotimes	00							3 2						
							//4" Xact						I IO. DATE	-	DF	VISIONS		BY	APP'
					Deta	il A	21/4 Exa										ANSPORT		
						<u> </u>	I					В	r.No.(035-05	6-128.9	7 (171)	Sta.	ATION 450+93 AND TREET Lyon	3.2
													BI	LL UF B	ENDING		SIEEL	AND	
													S.	Bd. 1-3	5 OVER	RLINC	OLN ST	FREET	
												P	roj. No	0.035- of scal	056 KA	-5714-	01	Lyon	Сс
												DE	SIGNED	ASF DETA TK DETA	VILED J	AH QUANTI SF QUAN. C	ries tk	CADD CADD CK.	
																J. LADAIL	AJF		



_____ _

KDOT Graphics Certified 11-06-2023

Sheet No. 72

																	STATE			AR SHEET NO.
	Excavation	Concrei	te	Reinforcing Steel	* Piles	SUMMARY Pre-Drilled	OF QUANT	Sonic Test	Core Hole	Bridge	Abutment	Slope	Bridge	Temporary	Falsework		KANSA	S 035-056 KA-5714	4-01 202	023 73
Item	Class III	(Grade 4.0)	(Grade 4.0)	(Grade 60)	(Steel)	Pile Holes			(Investigative)	, v	Strip	Stope Protection	Deck	Temporary Shoring	r disework Inspection					
Logation		(AE) (SA)	(AE)	(Epoxy Coated)	(<i>HPI2x53</i>)		(Cased)	(Set Price)		Prot. System	,	(Aggregate)	Grooving							
Location	Cu. Yds.	Cu. Yds.	Cu. Yds.	Lbs.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Each	Lin. Ft.	Sq. Yds.	Sq. Yds.	Cu. Yds.	Sq. Yds.	Lump Sum	Lump Sum					
Abutment No. /	64	**	_	**	105	75	-	_	-	25	21	152	-	_	-					
Pier No. /	5	**	9.0	1750	-	_	52	_	24	_	-	_	-	_	-					
Pier No. 2 Abutment No. 2	5 64	**	8.8	1730 **	- 100	75	53	_	24	- 25	- 21		-	_	_					
	07	小 小			100	13						210								
Substr. Total	/38	_	17.8	3480	205	/50	105	_	48	50	42	392	-	-	-					
Superstr. Total	-	376.9	-	98730	-	-	-	_	_	-	-	_	490	-	-					
Total	/38	376.9	17.8	102210	<i>† 205</i>	/50	105	/	48	50	42	392	490	Lump Sum	Lump Sum					
		** Quantities a Total Quanti		•	Summary of Pi Abutment No. I	1111g 5@2	<u>21 ft.</u>	* NOTE:	Only steel pile	HPI2x53						Г				
			•		Abutment No. 2	5 @ 2	20 ft.		e used on this											
		TAKING:Contractor (ires two independent		•													<u>SHEET NO.</u> 73	General Notes and (VING TITLE Quantities	
Specifications	÷ .							GENERAL N	NOTES							-	74	General Notes		
			<u> </u>										Para 1 1 1 •	• • • • • • •		-	75	Contour Map		
		f the existing struct Jalified bidders at t						`ooting as requi e column consti	•			L:All reinforci s unless othe	•				76	Construction Layout	L	
		nte Office Building,	•		•		• •	ist in place she				l bars, shall co		•		Ļ	77	Engineering Geology	/	
St., Topeka, K		-		coil	inserts or oth	er devices use	ed as falsew	ork support in a	the			Spiral bars m	•	•			78	Abutment Details	in	
EMBANKMENT, CO	omplete the emb	ankment at the abutm	nents a.sshown				•	Do not remove t Engineer. Curin				r. 40 or 60) o einforcing Stee		•		F	79 80	Abutment Strip Dra Pier Details	111	
the Bridge E.	xcavation sheet	prior to driving the	abutment piling					required by the	•			·		-		F	81	Superstructure Dete	ails	
commencing w	with the abutmer	nt footing excavation	·	Spe	ecifications.							d bars come i bod	n contact with	n epoxy coated	l bars, they	F	82	Superstructure Dete		
BRIDGE EXCAVAT	TION: All excave	tion shall be Class i	III. See the Brid	dae GEOTEC	CHNICAL REPO	RT:The aeoted	chnical report	(Dated January	(2023)	neea	not be coat	<i>ea.</i>					83	Slab Elevations		
		f pay excavation.		incl	ludes soil para	meters for ret	aining wall(s	sheet pile) desig	n. The			ATION: Integra	• •		•	-	84	Corral Rail Details		
FMPARARY SHA	DRING. The hid i	tem "Temporary Sho	orina" includes	•			•	50 lb/ft4. The			ria for, Abu ils" Sheet (B	itments No. 1 8	& 2 will follo	w the "Stando	nrd Pile	-	85	Corral Rail Details (Bill of Reinforcing		Rendina
		to furnish shoring	*	5			•	is the best info on by qualified		Derai	IS SHEEL (D	ΠΠΟ).					86	Diagrams		Denanny
shown on the	e plans for the a	temporary bracing of	f the embankme	ent at t	he State Bridg	ne Office, KDOT	•	State Office B												
		the temporary shorin temporary shoring pi) SW Harrison	n, Topeka, KS.										_		t	ANDARDS	
		egistered Profession			ENT STRIP D	RAIN: See the	General Notes	on the "Abutme	ent Strip							-		Bridge Excavation Standard Pile Deta		
•		ing plans to the Fie	•	or Dra	in" sheet.				,					DESIGN DAT	Δ	-	<u> </u>	Supports and Spac		einforcina (
		' is scheduled to be hts approval. Note th	•		RACKWALL	PRATECTION (SYSTEM. SOO	the General Note	es on the			DESIGN	SPECIFICATI					Bridge Berm and		
exposure heig	ght and shallow	depth to rock, speci	ialized shoring	_ · · · _ · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · _ · · · · _ · · · · _ · · · _ · · · _ · · · · _ · · · · _ · · · · _ ·	utment Strip D										oncrete Haunch S	Slab Design):				
		geotechnical report. 7		for					, .				•		Edition and late					
		Dated January 202. Trs at the State Brid						f existing struc g Structures",L				Sp	echications. L	oaa ana Resi	stance Factor De	esign.		TRAFFI	C DATA	
		Iding,700 SW Harr		•			•	, structure sha	•				bstructure:					AADT (2024)) 13,20	00
	ACTION. Compact	backfill at the abut	nonto and niora	the	property of th	e Contractor.	Remove this	material from th	he site.				•		(9th) Edition an			AADT (2044)	18,15	50
DACKFILL CUMFA	ACT TON: COMPACT	backfill at the abutm	ienis ana preis		PROTECTION	(Aggregate): I	Place Slope F	rotection				Sp	ECHTCUHUHS. L	ouu unu resi	stance Factor De	551 <i>911</i> .		DHV	9%	<u>,</u>
		and then driven to	•	(Ag			•	s shown on the	plans or			DESIGN L						T	20.5	5%
		h Shale of the Root etration in firm sha		e the as	directed by th	e Engineer. U	se (Aggregate	e)(2") D ₅₀ =4" a	15			HL-9	J					Note: Traffic Do	ata provideo	
•		rmation is achieved,		200	cribed in Divi	sion ITUU plac	ea to the lim	its shown in th	ne plans.			Desig	in Dead Load	includes an	allowance of 15	psf for a		NB Bridge only		
cease to avoid	d damage to the	e pile. Final pile tip	elevations shou	ild be DRIP Li				mat of geotextile				•	e wearing su				F			
		d on observed blow Drive all piling to t					m and berm	slopes and cer	ntered on				DECCEC					LFD & LRFR R		ACTORS
Formula Load		ו 10 איווע ווים סעריים 1	ער איז	the	drip lines of	The SIdD.						UNIT STR	12323:					Rating Lev	el Inventorv	y Operating
		00 T		CONCRE	TE: Superstru	cture concrete	is bid as Co	oncrete (Grade				Concr	ete (Grade 4.	0)	f'c =	4.0 ksi		Т ГИСК HS-20 (36Т)	/.66	2 77
	Abutment No. 1 Abutment No. 2							as Concrete (G					ete (Grade 4.		f'c =	4.0 ksi		Type HET (110T)		1.31
								′Grade 4.0) in : rete with a ³ ⁄4"					ete (Grade 4. orcing Steel(4.0 ksi 60 ksi	1	2002 LFD Rating.		
	•	le to the load and p		in no tria	•			on the plans.				Steel	0			50 ksi		HL-93 Loading	/.63	2.12
	•	to more than 110% ny location where pro	•	CON	•	•		tractor, but if u							-		1	2020 Manual for Br		
experienced, p	pile damage is s	suspected, or the Pil	le Driving Forn	nula Enc	ce only at locai gineer.	IUNS SNOWN, OI	αι ιυ <i>C</i> ΔΤιΟΝS	approved by th					SIGN PILE L			a	<u> </u>			
		ove the design pile i Pile Driving Angly		9	, <u> </u>							0	n Loading (T ment No. I	ons/Pile)	Strength I 60	Service I Phi 42 0.50	2			
equipment be		e Pile Driving Analy	ΖσΙ (ΓυΑ)										nent No. 7 nent No. 2		60	42 0.50 42 0.50	 NO.	DATE RE	VISIONS	BY
		, , , .	, ,															KANSAS DEPARTMENT	Г OF TRANSP	PORTATION
	steel piles in A. these elevation	butment No. I, & Abu	utment No. 2 sh	all be					LR	FD DESIGN L Design Load			nath I	Priving I Ca	d Roaring Dh:	Side Friction Phi	Br.N	10.035-056-128.98	8 (170) S [.]	ta. 450+9
'	ent No. I – Ele									Pier No. I	1119 (1 UHS/ .		ngth I S 17	216 En	0.45	0.50		GENERAL NOTES		
Abutmei	ent No. 2 – Ele	ev. 1123.8								Pier No. 2		3	17	216	0.45	0.50		N. Bd. I-35 OVER		
	e set and driven	to the computed be	earing value she	OWN.														No.035-056 KA		Lyor
		be backfilled accord	dina to KDOT															NO. OF SCALE D ASF DETAILED JA CK. TK DETAIL CK. AS		

Note	e:Traffic Dat	a provided
NB	Bridge only.	·

								_	
) & L	RFR	RA	TING FA	CTOF	RS]	
	Truck	Rai	ting L	evel	Inventory	/ Oper	ating	-	
	HS-20		(367	r)	1.66	2.	.77		
	Туре Н	'ET	(//0	T)	$>\!$	\int /.	31]	
	2002	LFD F	Rating	. 177	th Editio	n AAS	SHTO		
	HL-93	Loadi	'ng		1.63	2.	.12	1	
	2020 1	Manual	for E	Brid	ge Evalu	ation]	
3								<u>-</u> 1 │	
2									
-									
NO.	DATE			REVIS	ONS		BY	APP'D	
Br.	No. 03	5-056 ERAL	5-128 . Note	.98 ES /	of trans (170) S AND QU	ANTI	150+ FIES	93.23	s Certified
	N. Bo	I. I-35	ove	ER L	INCOLN	STR	RET		Graphics
Prc) j. No.()35-0	56 K	(A-5)	6174-01		Lyor	Co.	<u>J</u> ra
SHEET Desigi Desigi		SCALE SF DETAIL K DETAIL	.ED . CK.	JAH (APP'D QUANTITIES QUAN. CK.	TK CA	ADD ADD CK	JAH . TK	Ľ
									÷

KDOT Graphics Certified 11-06-2023 Sheet No. 73

		<u>GENERAL</u>
	DRILLED SHAFTS: Construct the drilled shafts using the cased method. A permanent casing is required. All excavation, concrete, reinforcing steel, pipes for Sonic Testing, casing, labor, and incidentals necessary to complete the shaft as shown on the details and as directed by KDOT Specifications shall be included in the bid item "Drilled Shaft (48") (Cased)". Use Grade 4.0 Concrete in the drilled shaft. In no instance shall the bottom of the drilled shaft be placed higher than the elevation shown unless otherwise directed by the KDOT Geologist.	FALSE fc Pi IC KI FALSE Wi fc
	Excavations for drilled shafts will need to be cased. Water movement within the mantle could cause caving and collapse of the excavation walls. Casing will be required for drilled shafts. Casing will need to be set into bedrock a maximum of 1.0 feet, less if possible, to reduce the risk that overburden, and groundwater does not enter the rock socket. A wet pour may be anticipated if groundwater is not sufficiently sealed off or if there is water flowing into the excavation.	fa al FALSE sy FALSE af Ei
	Drill an Investigative Core Hole at the location(s) shown on the plans. See KDOT Specifications.	CAMBE Ca Io
	If the location of the top of the shaft is such that the casing cannot be overtopped to remove concrete impurities, provide extra casing length to over-pour the concrete in the shaft and chip back to the plan elevation of the top of the shaft.	th th PIER
	If permanent casing to be corrugated metal pipe (CMP) then it will be galvanized.	S, re th
	Note that the drilled shafts have end bearing components. It is important that the bottom socket be clean and relatively flat. Allow no loose material within the footing when the drilled shaft is ready to pour.	E be CONCR sl
	Shales of the Root Shale Formation and the Stotler Formation could degrade rapidly in the presence of air and water. Place the reinforcing steel and concrete no more than eight (8) hours from completion of the excavation of the shaft to minimize exposure time of the shale to air and groundwater.	al se th pl eq qL
	SONIC TESTING: Equip all drilled shafts with piping to allow sonic testing to be done. Install pipes at locations shown on the plans. All wet pours will be tested. Also, the Engineer has the option to require sonic, non-destructive, integrity testing at any location of concern. Sonic testing shall be paid for at the unit price set for "Sonic Test" (Drilled Shaft) (Set Price). If the sonic testing indicates defective concrete in the shaft, the Engineer will measure the first sonic test	th ac cc Ap pl SLAB "S
on: br170-02.dgn	for payment, and the Contractor is responsible for subsequent sonic testing of that shaft. Report test results directly to KDOT's Chief Geologist. No work will be done above the top of drilled shaft without the approval of the Chief Geologist.	ar CORRA TEMPI
ted By: user Plot Location: c:\pwworking\central01\d3357666\ka571401bbr170-02.dgn	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	QUANT
01\d33576	KDOT Specifications Section 710, Tables 710-1 & 710-2 for additional information.	DIMEN di ra
user king\central	CONSTRUCTION SEQUENCING:For construction sequencing and phasing information see Roadway Plans. PERMANENT CASING:See KDOT Specifications.	CONST th
	PERMANENT CASING: See KDOT Specifications.	st

NOTES

SEWORK 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.

SEWORK INSPECTION: This project has falsework plan requirements which are considered "Category I" by KDOT specifications. The falsework designer of record will conduct an inspection of the as-built falsework. The bid item, "Falsework Inspection" is full compensation for all materials, labor and equipment. See KDOT Specifications.

SEWORK PLANS AND SHOP DRAWINGS: Use the U.S. Customary system of units on falsework plans and shop drawing details.

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

BER: Provide camber as shown on the Camber Diagram unless the Contractor uses either long span steel beam falsework (concrete dead load deflection greater than $\frac{1}{4}$ ") or timber falsework with greater than 12'-0" clear span. If either case exists, submit falsework plans that show the additional required camber.

BEAM CONSTRUCTION: Cure the columns as required by the KDOT Specifications before beginning the pier beam construction (placing resteel or formwork). Do not drill and grout bolts or other devices into the columns used for falsework support unless approved by the Engineer. Cure the column as required by the KDOT Specifications before beginning to place the superstructure concrete.

CRETE 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)(SA)". Approval of the Contractor's alternate sequence is required prior to placement of concrete in the deck.

ELEVATIONS: The Contractor shall record elevation readings on the "Slab Elevations" sheet in the table at locations designated by a "(2)" and submit the sheet to the Engineer.

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

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

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

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

STRUCTION 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.

- BRIDGE DECK GROOVING: After the bridge d aroove the deck in accordance with KDO construction groove each completed phase Align the grooves from each adjacent ph without jogs or discontinuities. For skew be perpendicular to the centerline of the
- DEMOLITION PLANS: This is a <u>Category C</u> Demolition. Submit detailed Supervisor will attend the required pre-demolition meeting before these operations begin, as described in KDOT Specifications. No demolition work will begin without approved Demolition Plans.
- ASBESTOS INFORMATION: Samples of this structure were tested to in the components. The results are listed below:

Concrete (Abutment, Deck) Date of Report

For any result above greater than 1%, abatement shall be performed according to KDOT Specifications. Results less than 1% require no abatement.

DECK PROTECTIVE SYSTEM: Epoxy coat all reinforcing steel in the deck, slab, abutments, pier beams, columns and rails.

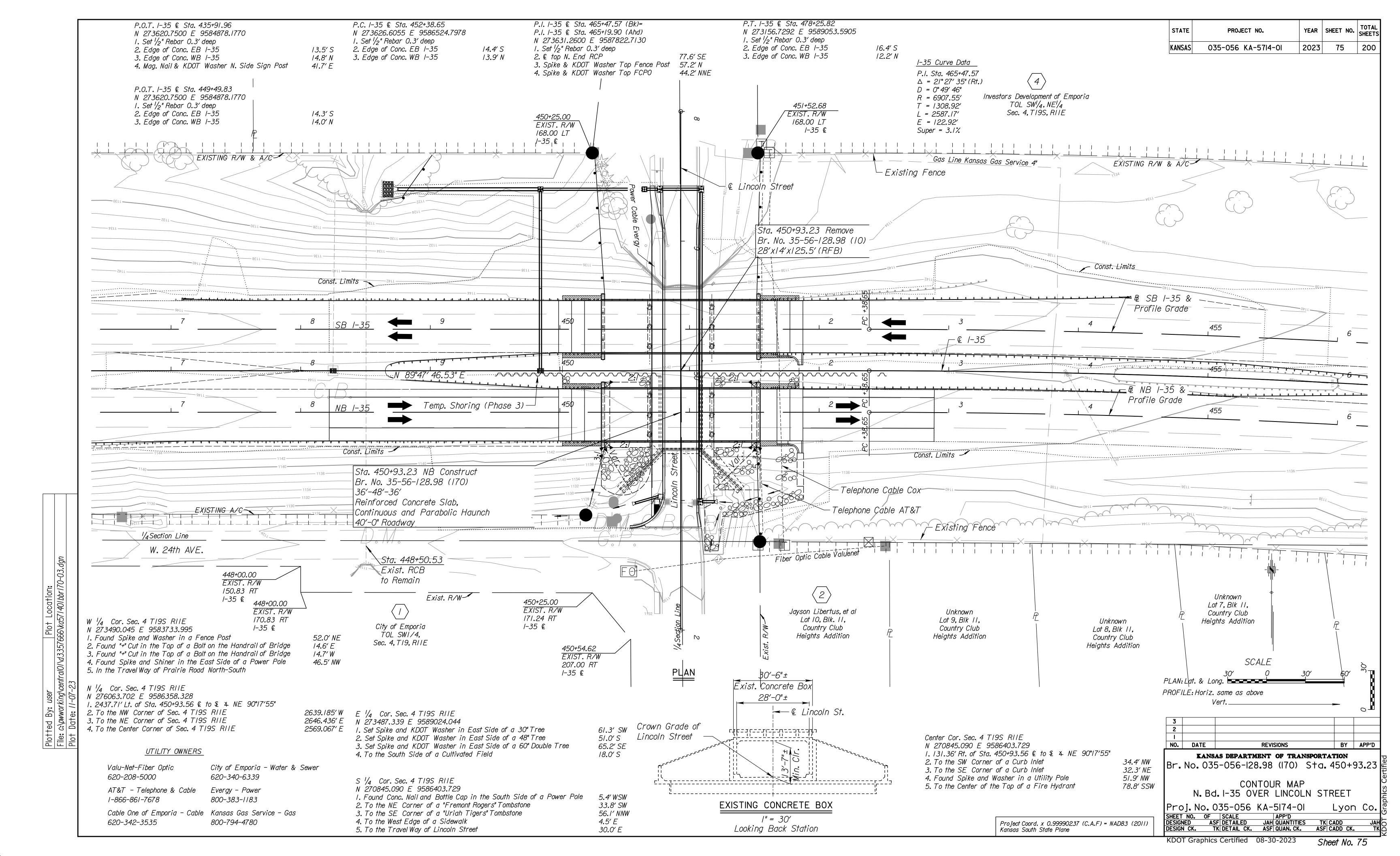
	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-57I4-0I	2023	74	200
deck has cured, transversely OT Specifications. For phased se before opening to traffic. phase across the bridge deck wed bridges all grooving will e bridge.					

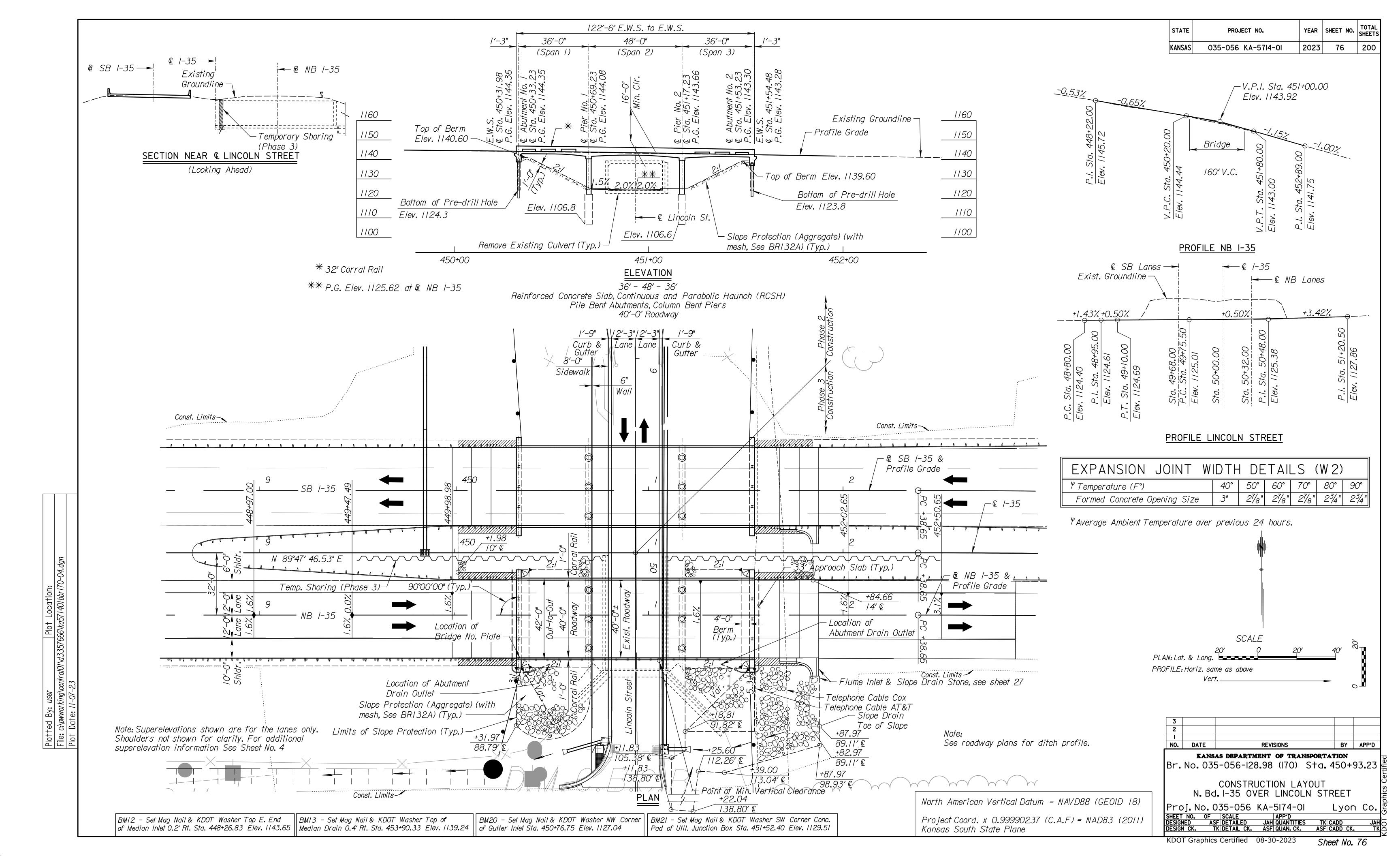
Demolition Plans to the State of Bridge Office (or Bureau of Local Projects) at least 4 weeks before beginning the demolition process. Portions of the submitted details shall bear the seal of a Licensed Professional Engineer. Identify, on the plans, the Demolition Supervisor meeting the requirements of the KDOT Specifications. The Demolition

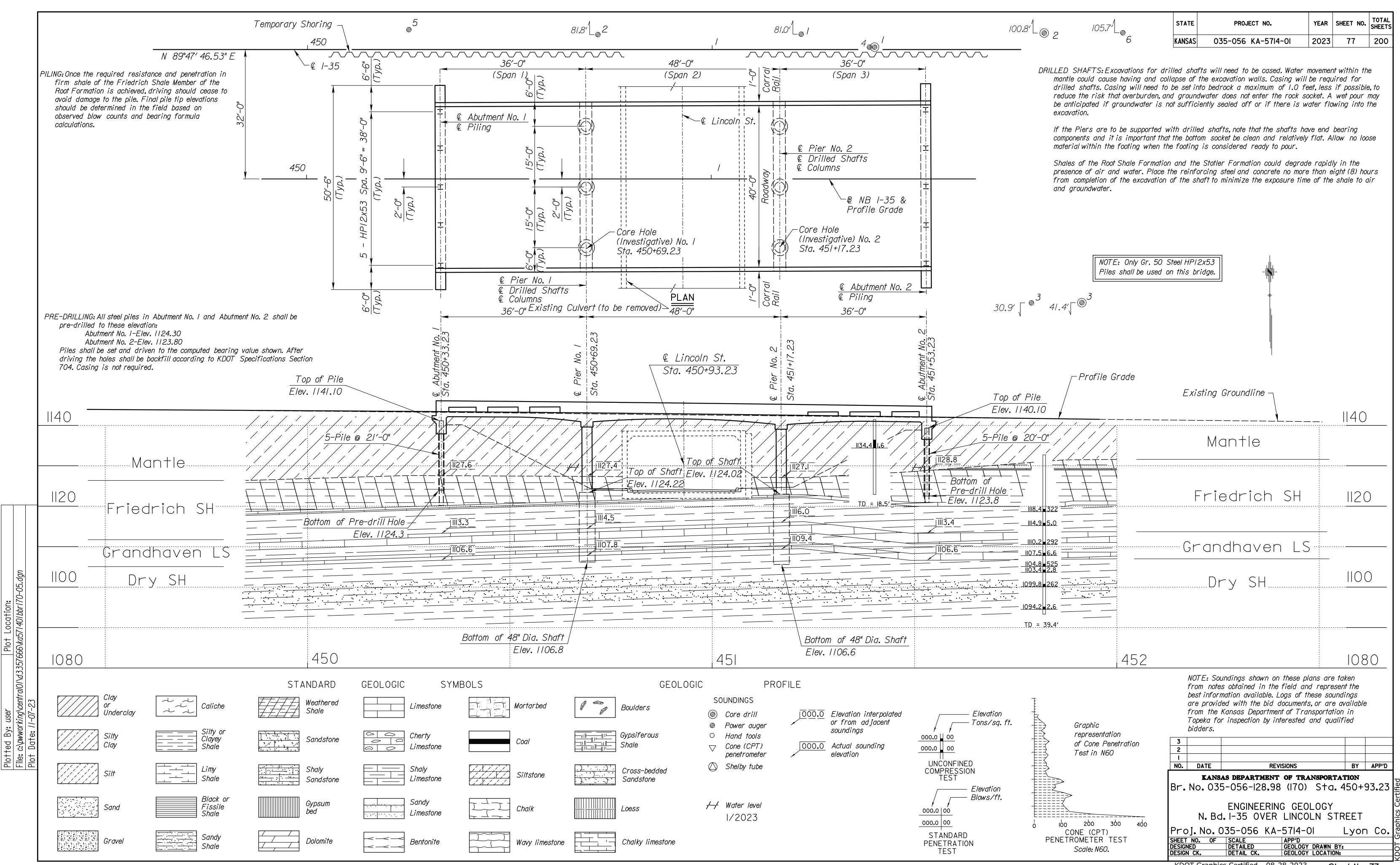
determine the amount of Asbestos Containing Materials (ACM) present

0% 12/07/2021

3							
2							
Ι							
NO.	DATE		REVI	SIONS		BY	APP'D
	KANS	AS DEPART	MENT	OF TRAD	NSPORTA1	TION	
Br.		5-056-12		-	-		93.23
				NOTE			
	N. BC	1. I-35 0'	VER	LINCOL	N SIR	EEI	
Pro	j.No.(035-056	KA-	5174-0	l l	_yon	Co.
SHEET		SCALE		APP'D			
DESIG		F DETAILED		QUANTITIES	<u>S TK CA</u> ASF CA		
DESIG		NULTAL CR.	ASF	QUAN. CR.	ASF CA	NUD CR.	
KDO	T Graphics	s Certified	10-24	4-2023	Shee	et No.	74

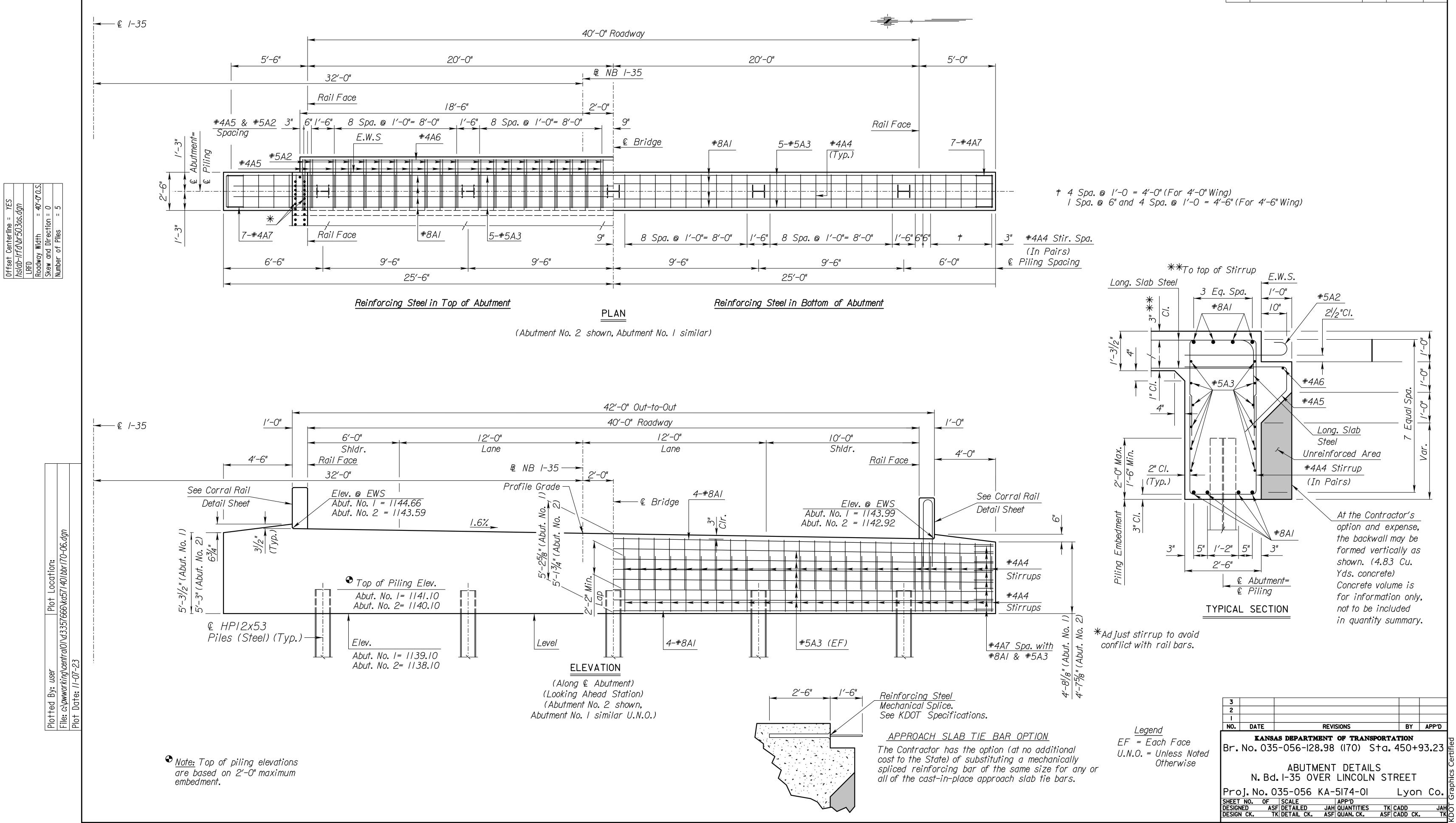




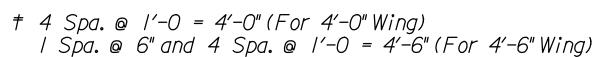


KDOT Graphics Certified 08-28-2023

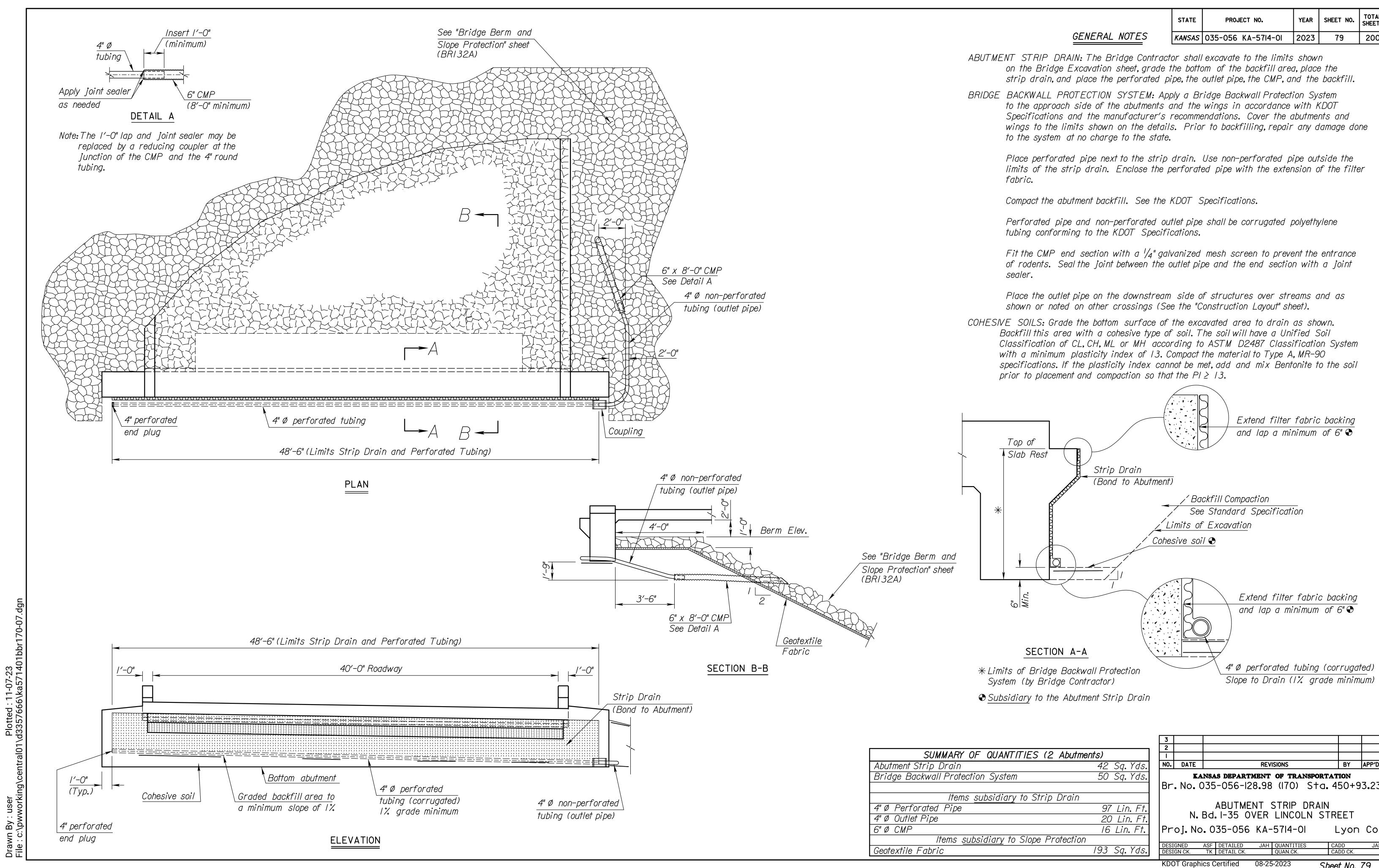
Sheet No. 77



	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	78	200

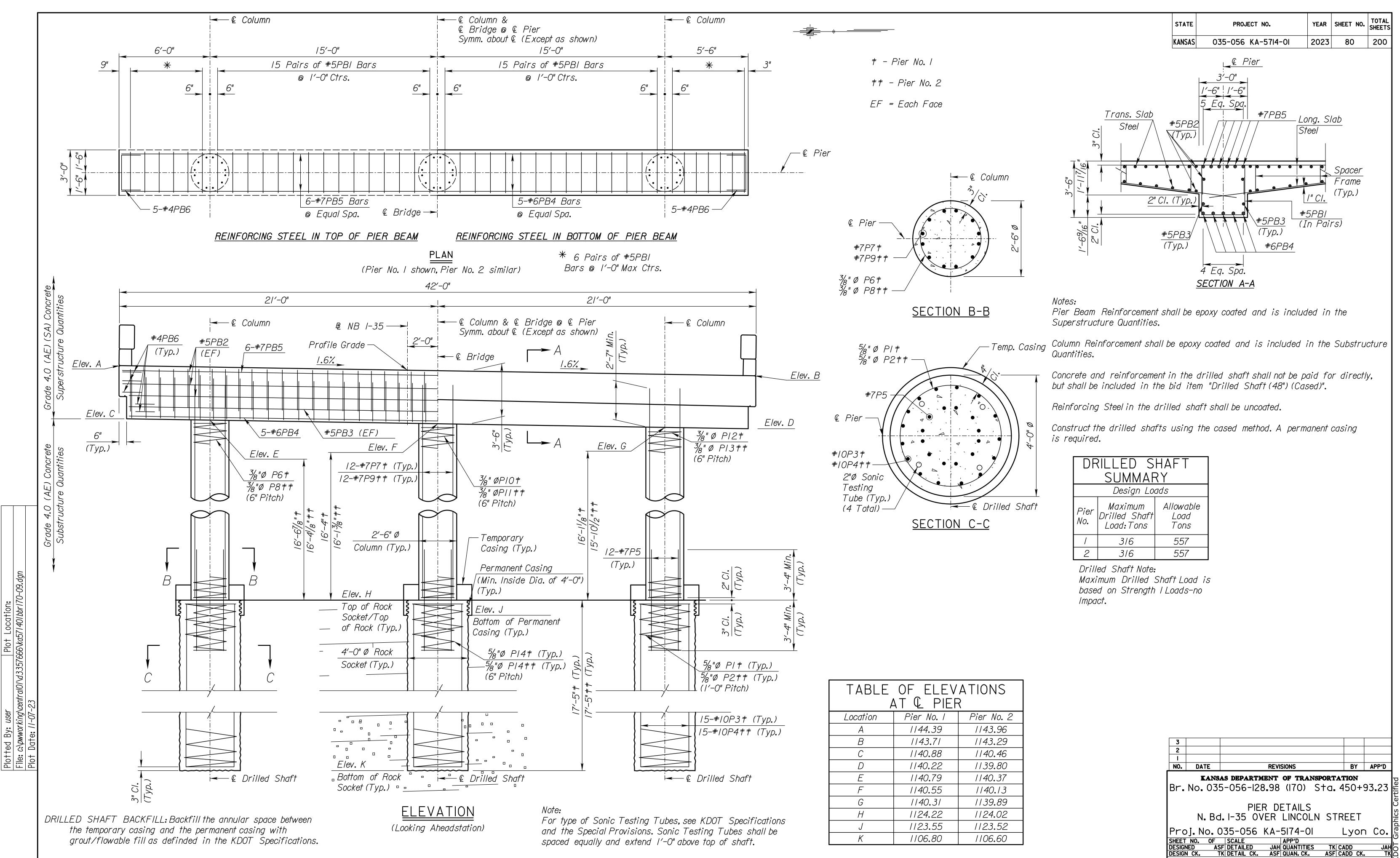


KDOT Graphics Certified 06-28-2023 Sheet No. 78



	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
<u>GENERAL NOTES</u>	KANSAS	035-056 KA-5714-01	2023	79	200

		- 2							
RY OF QUANTITIES (2 Abutmei	nts)								
ר	42 Sq. Yds.	NO.	DATE		REVISIONS		BY	APP'D	
tection System	50 Sq. Yds.		KA	NSAS DEPART	MENT OF TRAN	NSPORTAT	ION		
	·	1 Br	• No. ()35-056-12	8.98 (170)	Sta. 45	50+9	3.23	ed
ms subsidiary to Strip Drain		1							Certifi
e	97 Lin. Ft.				NT STRIP [S
	20 Lin. Ft.		N.	Bd. 1-35 0	VER LINCOL	.N STRE	ET		ics
	16 Lin. Ft.	1 Pr	oj.No	. 035-056	KA-5714-0	l L	yon	Co.	ap
subsidiary to Slope Protection		1 📖	•				<u> </u>		Q
/	193 Sq. Yds.	DES	IGNED IGN CK.	ASF DETAILED TK DETAIL CK.	JAH QUANTITIES QUAN.CK.		DD DD CK.	JAH	<u>lod</u>
		KD(OT Graphi	ics Certified	08-25-2023	Sheet	t No.	79	Ι×



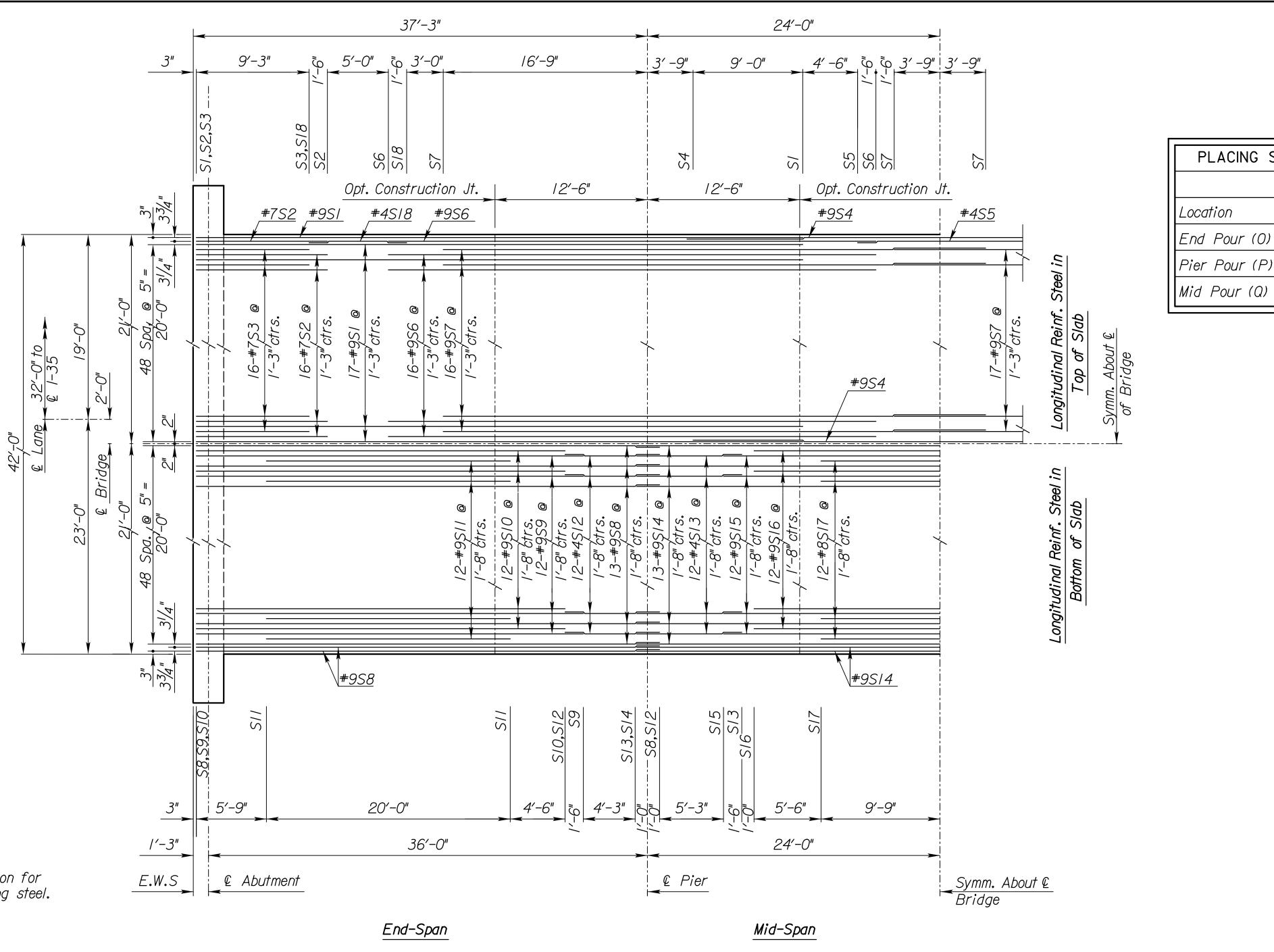
KDOT Graphics Certified 08-24-2023

Sheet No. 80

Irfd\br519os.dan	Plot 2
11	-
	-
SKEW GNG DIFECTION = U	10TOL NO. OT SPORS = 3
Loading = HL-93	HL-93 Railing Type = Corral



Plotted By: user	Plot Location:
File: c:\pwworking\central0I\d3357666\ka571401bbr170-10.dgn	366\ka571401bbr170-10.dgn



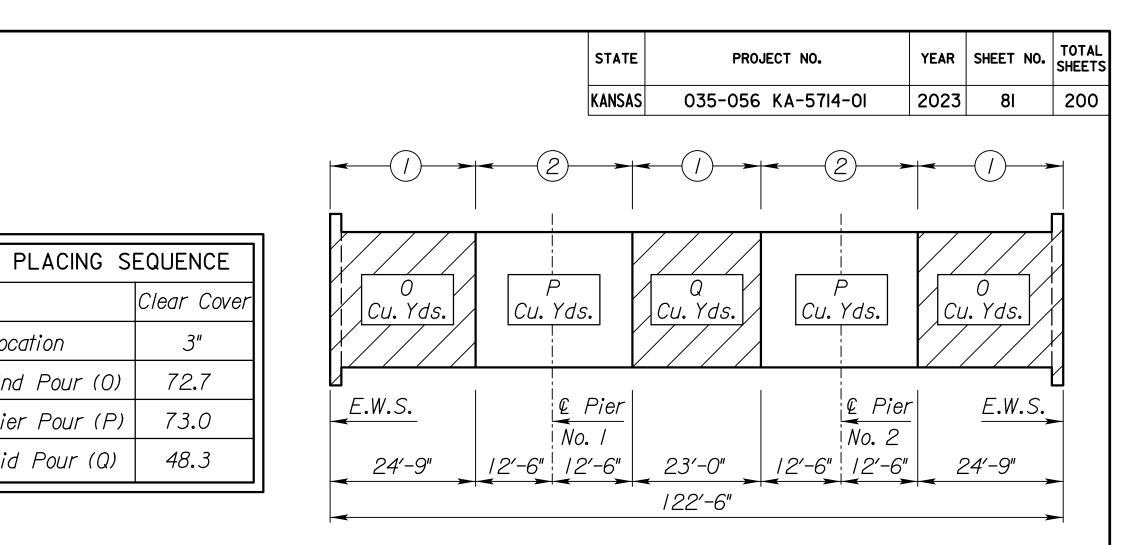
Note: See longitudinal section for transverse reinforcing steel.

Note: 1.0 & 4.0 pts. are taken at *Q* of abutments at theoretical Top of Form 2.0 & 3.0 pts. are taken at *Q* of piers at theoretical Top of Form

						Top of For	m Elevation	at 10th Po	ints,(ft.)						
1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
1143.08	//43.07	1143.06	1143.04	43.0	1142.94	1142.83	1142.68	1142.51	1142.30	1142.06	1142.30	1142.48	1142.61	1142.67	1142.67
2.6	2.7	2.8	2.9	3.0	3./	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	
1142.59	1142.44	1142.23	1141.96	1141.64	4 .8	1141.96	1142.07	1142.16	1142.20	1142.21	1142.18	1142.13	1142.08	1142.03	
	stiona are t								•						

Note: Elevations are taken at Profile Grade. Note: The change in elevation from Profile Grade to the Edge of Slab is +0.304' short side -0.368' long side

HALF PLAN



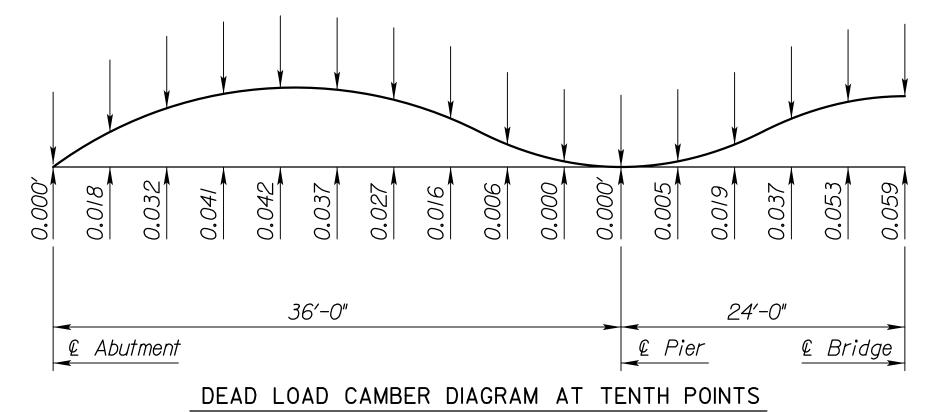
CONCRETE PLACING SEQUENCE DIAGRAM

CONCRETE PLACING SEQUENCE

When long span steel beams having a concrete dead load deflection greater than $\frac{1}{4}$ are used or when timber falsework with greater than 12'-0" clear span is used, follow the placing sequence shown. Segmental, combined or continuous pours are allowed, but stop a discontinuous pour at a construction joint short of a pier.

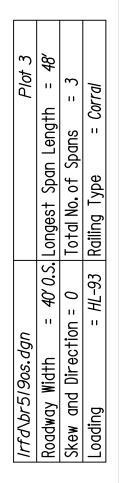
When timber falsework with 12'-0" or less clear span is used, the Contractor, subject to the approval of the Engineer, may use a continuous pour or may discontinue the pour at any construction joint shown.

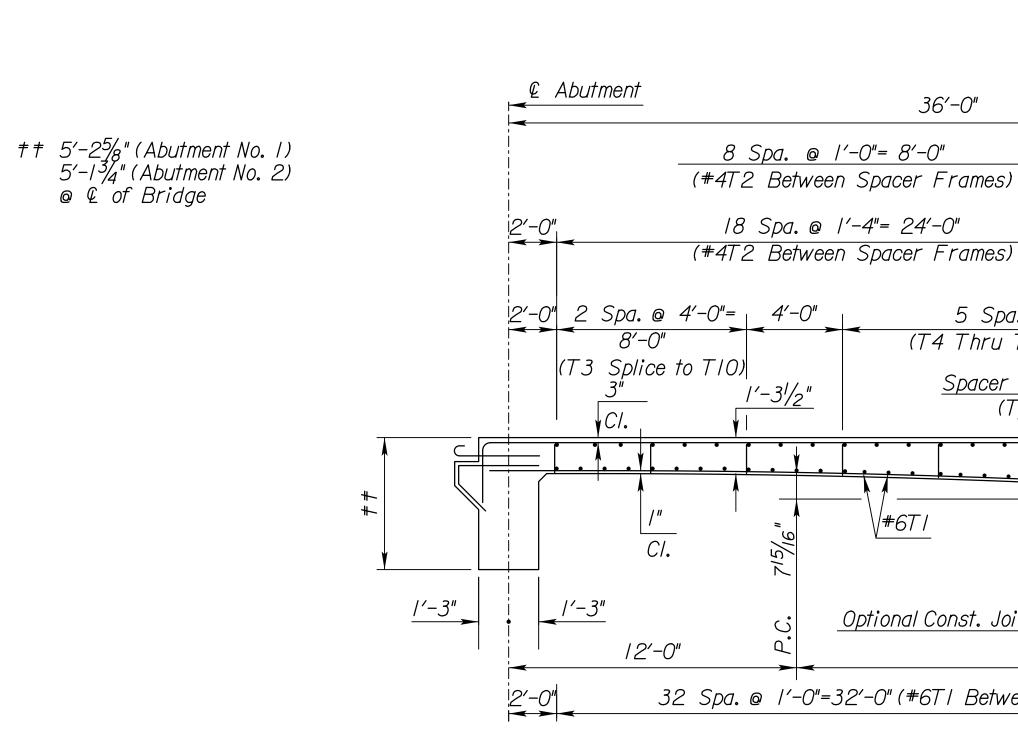
The Contractor may place the corral rail continuously from one end of the bridge to the other.

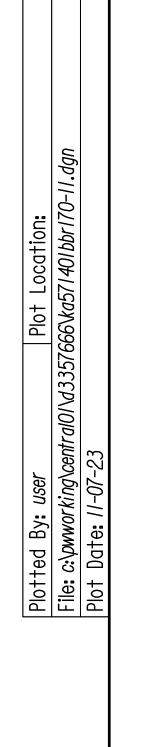


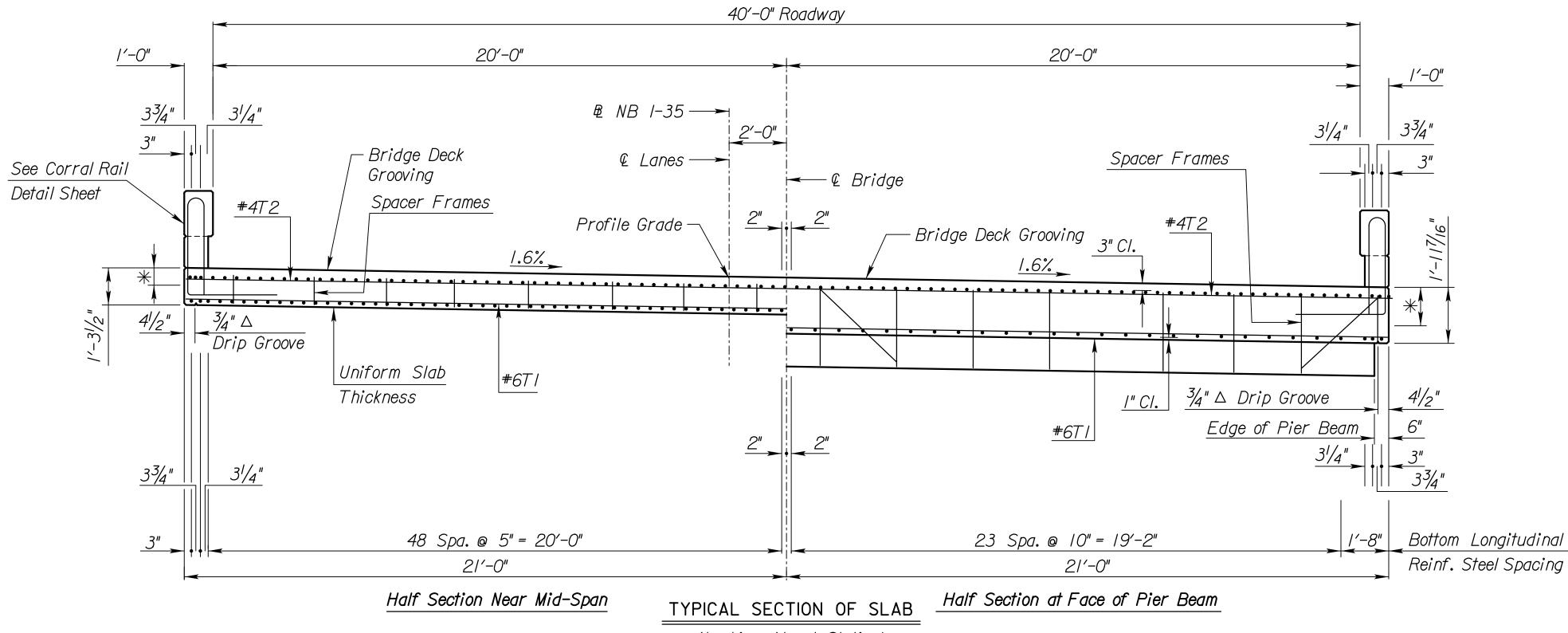
Long Term Deflections = Initial Deflections x 3.5 (Initial Deflections Based on E_c = 3.644 x 10⁶ p.s.i.) (camber values in feet)

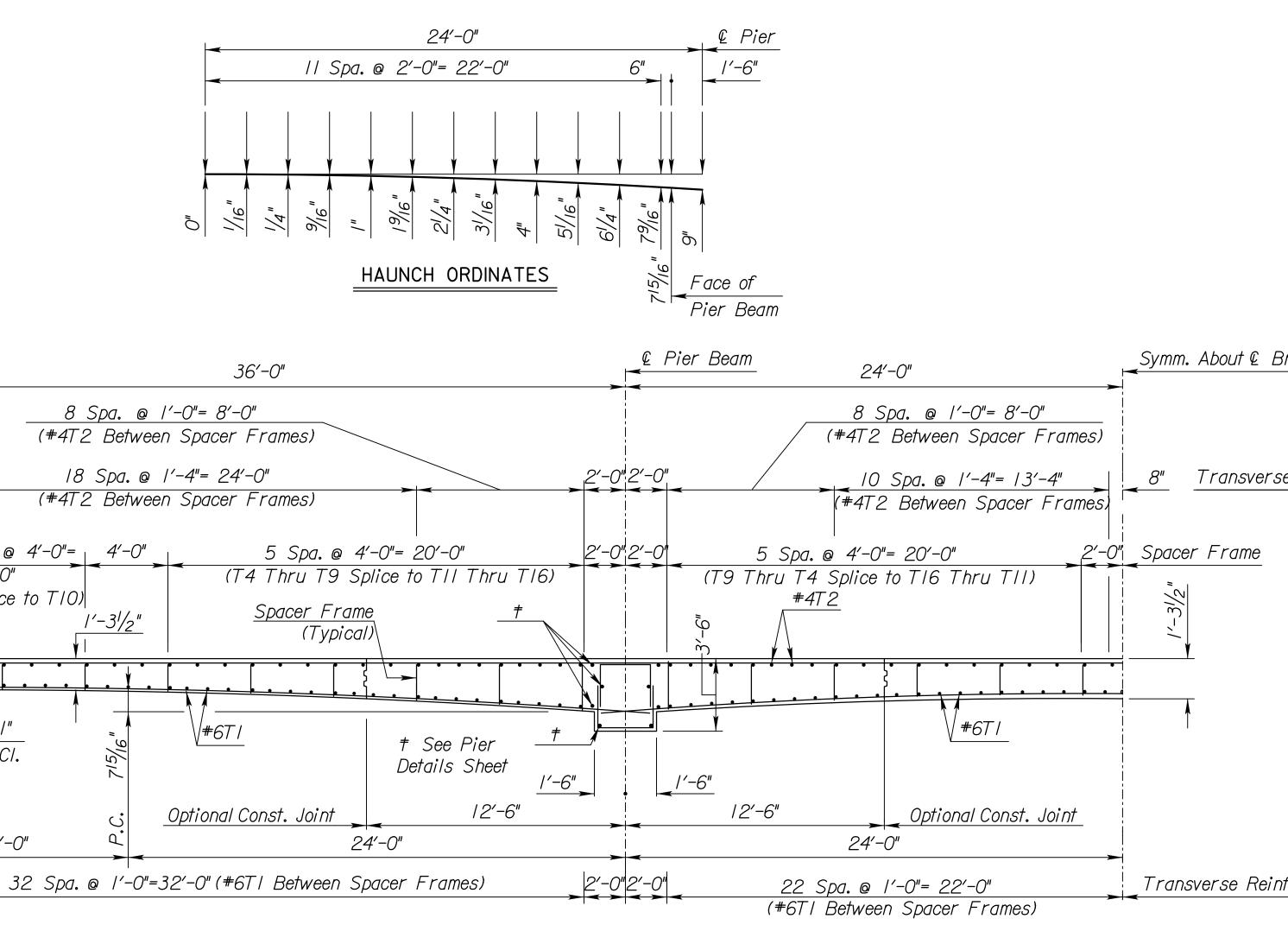
4								
3								
2								
I								
NO.	DAT	E		REV	ISIONS		BY	APP'D
	ĸ	ANSA	S DEPAR	TMENT	OF TRA	NSPORTA	TION	
Br.					(170)	-		93.23
	Ν.				TURE D			
Prc	oj. No	. 0	35-05	6 KA-	5174-0	1	Lyor	ъ Со .
SHEET		OF	SCALE		APP'D			
DESIGN			DETAILED			<u>S TK C</u> ASF C		
			•			MJF U		• •
KDO	T Grap	hics	Certified	08-2	4-2023	She	et No.	81











HALF LONGITUDINAL SECTION ALONG & BRIDGE

(Looking Ahead Station)

	STATE		PROJEC	T NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	03	35-056 K	A-5714-01	2023	82	200
Bridge							
se Reinforcing Steel							
pforoing Stool							
nforcing Steel							
¥	4						
* See Corral Rail Detail Sheet	3 2						
	I NO.	DATE		REVISIONS		BY	APP'D
.,	Br N/		AS DEPAR	fment of ti 28 . 98 (170	ANSPOR	TATION 45∩+9	3 27
	או אוע אוע אוע						
2		S N. Bc	UPERST 1.1-35 (RUCTURE	DETAI OLN S	LS TREET	
	Proj.	No. (035-056	5 KA-5174-		Lyon	Co.
	SHEET NO DESIGNED DESIGN CI). OF AS K. T	SCALE SF DETAILED IK DETAIL CK	APP'D JAH QUANT ASF QUAN.	TIES T CK. AS	K CADD F CADD CK.	JAH TK
				06-28-2023			<u>`</u>

KDOT Graphics Certified 06-28-2023 Sheet No. 82

									SLAB EL	EVATIONS						STATE	PROJECT NO.	YEAR	SHEET NO. TOTAL
					Fori	nwork			Screed			Thickness		Deck	· Profile	KANSAS 035-	056 KA-5714-01	2023	3 83 200
/	2	3	4	5	6	7	8	9	10	//	12	/3	4	15	16				
Survey	Station	<i>+ Location</i>	Transverse	Estimated	Target	Actual	TOF	Target	Actual Bottom	Screed	Plan	Measured	Deck	Plan	Actual		Pc		tes (2)
			Location	Falsework Crush	Elevation TOF	Elevation TOF	Variance (QA/QC)	Screed	of Screed Elevation Prior	Variance	Deck	Deck	Thickness	TOC EI.	TOC El.				Deck
									to Pour	(QA/QC)	Thickness	Thickness	Variance (QA/QC)		Optional Survey				Left Rail (13) Right Rail(13)
		(1.2)	(12)							$(\cdot, $		(i_{1}, j_{1})						/	
	(1)(16)			(inch) (1)(4)	(1)(6)	(2)	(± inch) (2)(5)		(2)	(± inch) (2)(7)	(inch) (1)	(inch) (2)(8))(±inch)(2)(9)		Date: (3)		Surv	ey Dat	ta (/)(//)
	450+33.23	€ Brg.	Left Fascia Profile Gr.				$\{ / / / / / / / / / / / / / / / / / / /$	//44.66			+////	$\left\{$	$\left\{ / / \right\}$	//44.66 //44.35			Bench Mark	No.	Elevation
$\parallel A$	430133.23	Abut. #1	Right Fascia				\times	1/43.98						1143.98			12		1143.65
		Interior	Left Fascia		1143.35			1143.30			151/2"			1144.65			/3		1139.24
	450+34.48	Face of	Profile Gr.		//43.05						151/2"			1144.34	$\left\{ / / / \right\}$		20		1127.04
		Abut. #I	Right Fascia		1142.68						151/2"			1143.97			21		1129.51
		4/10 Point	Left Fascia	1/4"	1143.32			1144.62			15%16"			1144.55			Crown Gr	ade Pi	rofile(/)(/2)
C	450+47.63	from "	Profile Gr.	1/4"	1143.01			1144.31			15%16"			1144.25			451+00.0	i	VPI Station
		Abut. #I	Right Fascia	1/4"	1142.64			1143.94			15% ₁₆ "			1143.88			//43.92		VPI Elevation
		Span #I	Left Fascia	1/4"	1142.47						237/16"			1144.40			-0.65%	. (GI %
D	450+67.73	Face of	Profile Gr.	1/4"	1142.16						237/16"			1144.09			-1.15%	í (G2 %
		Pier Beam	Right Fascia	//4"	1142.79						237/16"	L , , , , , , , , , , , , , , , , , , ,		//43.73			/60.00) [L in Stations
	450,00 03	€ Brg.	Left Fascia		$ \qquad \qquad$		$\langle / / / / / / / / / / / / / / / / / / /$	//44.39				$\langle / / / / \rangle$		//44.39		Slab Thick	kness (/) S	Span Do	ata (/)
	450+69.23	0/ Pier #/	Profile Gr.		$\left\{ - \right\}$			// <i>44.08</i> // <i>43.7</i> /						1144.08		15½" Uniform			
			Right Fascia Left Fascia	1/4"	1142.44			1143.11			237/16"			//43.7/ //44.37		715/" Haunch	n Depth @		n #1 (ft)
	450+70.73	Span #2 Face of	Profile Gr.	/ <u>/</u> //////////////////////////////////	1142.14						237/16"			1144.07					n #2 (ft)
	100 10.10	Pier Beam	Right Fascia	1/4"	1141.77						237/16"			1143.70			h Depth @ pint (inch)		ar Cover (inch)
		Midpoint	Left Fascia	1/4"	1142.97			1144.26			151/2"			1144.18					
$\mid G \mid$	450+93.23	of	Profile Gr.	1/4"	1142.67			//43.96			151/2"			//43.88			Roadway (_	(1)(10)(13)
		Span #2	Right Fascia	1/4"	1142.30			1143.59			151/2"			43.5			42		Width (ft) (14)
, ,		Span #2	Left Fascia	1/4"	1142.05						237/16"			//43.98			+1.6%	_	pe Left (±)
\mid	451+15.73	Face of	Profile Gr.	1/4"	1141.74						237/16"			1143.67			-1.6%	_	pe Right (±)
		Pier Beam	Right Fascia	1/4"	1141.37						237/16"			43.3			00:00:00	SKEW	(dd:mm:ss)
,		⊈ Brg.	Left Fascia				$\langle / / / / / / / / / / / / / / / / / / /$	1143.96						//43.96			Camber	-	(1)(17)
	451+17.23	Pier #2	Profile Gr.					//43.66						//43.66			0.042 S	pan #1 (0.4 Point (ft)
			Right Fascia	1/4"	1142.02			1143.29			237/16"			//43.29 //43.95			0.059 S	pan #2	Midspan (ft)
	451+18.73	Span #3 Face of	Left Fascia Profile Gr.	//////////////////////////////////////	1142.02						237/16			1143.65					
	431.10.13	Pier Beam	Right Fascia		//4/.35						237/16"			1143.28		(I) By the De	sign Engineer		
		4/10 Point	Left Fascia	1/4"	1142.51			1143.81			15%[6"			//43.75		(2) By the Cor	ntractor		
$\parallel K$	451+38.83	from	Profile Gr.	1/4"	1142.21			//43.5/			15%6"			//43.45		(3) By Reques **(4) Estimated		'cal false	work Revise
		Abut. #2	Right Fascia	1/4"	1141.84			//43./4			15%16"			//43.08			<i>`/when more ac</i>		
,		Interior	Left Fascia		1142.32						151/2"			43.6		becomes av			
	451+51.98	Face of	Profile Gr.		1142.02						151/2"			1143.31		(5) (col 7 - co (6) Crush (Ta	ol 6)XI2 ike Up) and can	nher mus	st he included
		Abut. #2	Right Fascia		1141.65						151/2"			1142.94		(7) (col 10 - c)	•		
		€ Brg.	Left Fascia				$\langle / / / / / / / / / / / / / / / / / / /$	//43.60						1143.60		(8) (col 10 - c			
	451+53.23	0^{\dagger}	Profile Gr.	$\langle / / / / \rangle$	$\langle / / / / / \rangle$	\leftarrow		//43.30						//43.30		(9)(col 3 – ((10)		hridae ti	hen enter
		Abut. #2	Right Fascia					//42.93				1 / / /	1 / / / /	1142.93			the % Slope	<i></i>	
		+ Stationing	shown increasing	a				۲۵	F. The Contracto	or will submit a co	moleted		umed that piling ha			(11) From "Cons			
		STUTIVITING		9						the Field Engined			nd checked by ENF			(12) If bridge i. Abutment #	s not on the ve ⁼I © bearing ele		
										As-Builts plan se		INO allowal	nce for pile settlem	IENI IS INCIUDED	III CLUSN.	"Constructio	on Layout" sheer		
																in grade w	ith GI only.	·	-
																(13) Looking Up (14) Out-to-Out			
																(15) Ignore Fill			
																(16) Non-skewed (17) Tanore theo			



AB

└ ↔ ↔

|B|

(15)

С

С

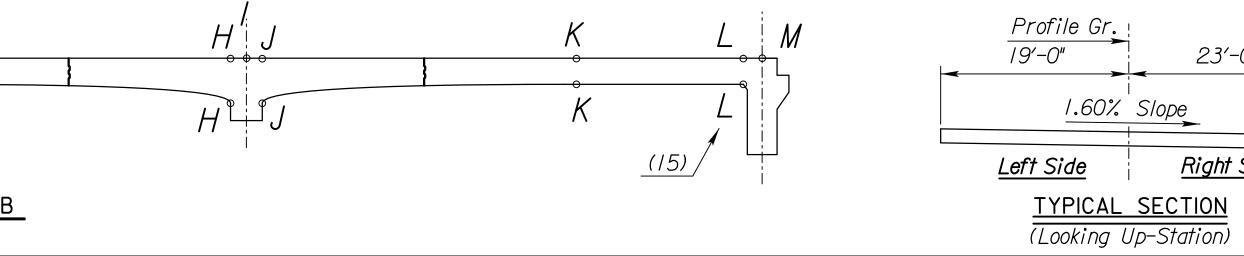
ELEVATION OF SLAB

G

G

E D↓*F*

D + F

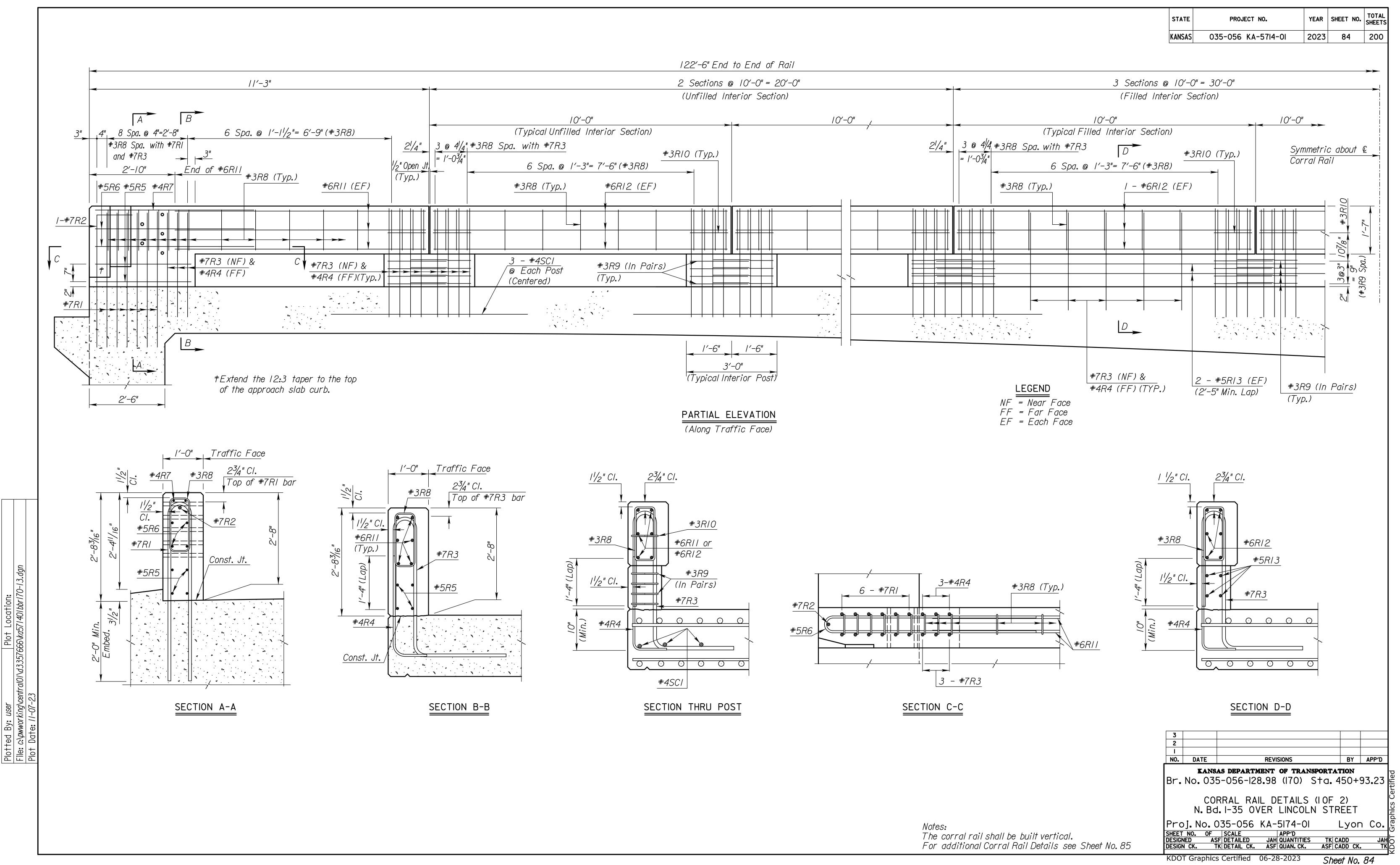


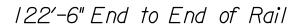
		·					
17) Ignore	theoretical	camber	at face	of	pier	beams.	

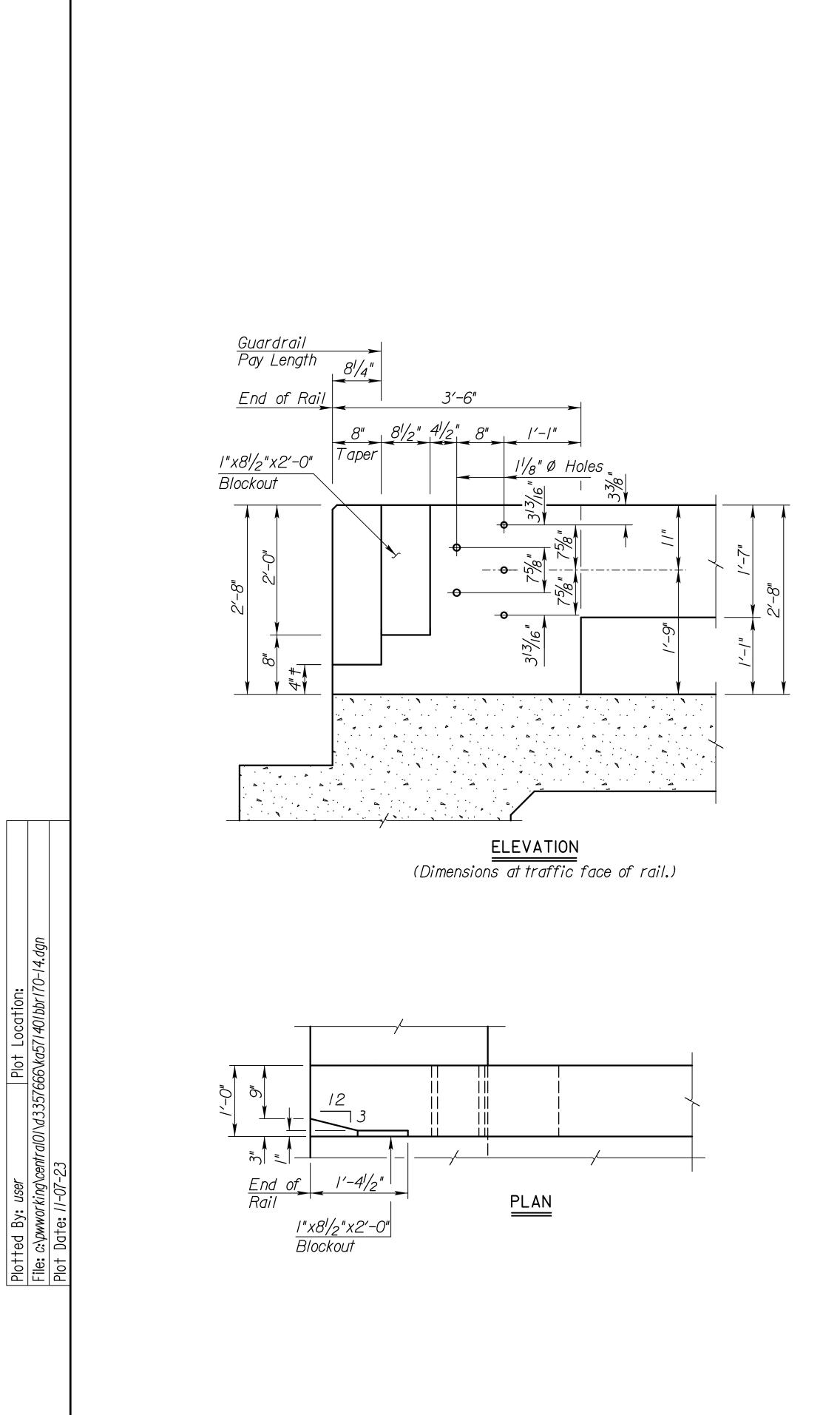
	32						
	NO.	DATE		REVISIONS		BY	APP'D
		KANS	AS DEPARTI	MENT OF TR	ANSPORTA	TION	
	Br.	No. 03	5-056-12	8.98 (170)	Sta.4	150+9	93.23
Legend TOF = Top of Formwork		N . Bc	SLAE 1.1-35 01	BELEVATI	IONS DLN STF	RET	
TOC = Top of Concete	Pro	oj. No. (035-056	KA-5174-	01	Lyon	Co.
QA = Quality Assurance QC = Quality Control	SHEET DESIGI DESIGI	NED AS	SCALE SF DETAILED TK DETAIL CK.	APP'D JAH QUANTIT ASF QUAN. CI		ADD ADD CK.	JAH TK
	KDO	T Graphic	s Certified	06-28-2023	She	et No.	83

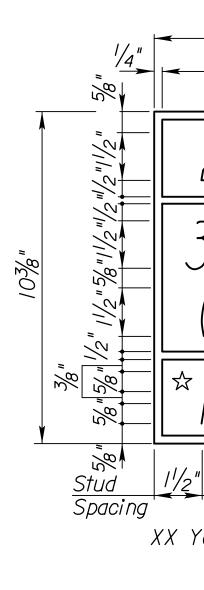
23'-0"

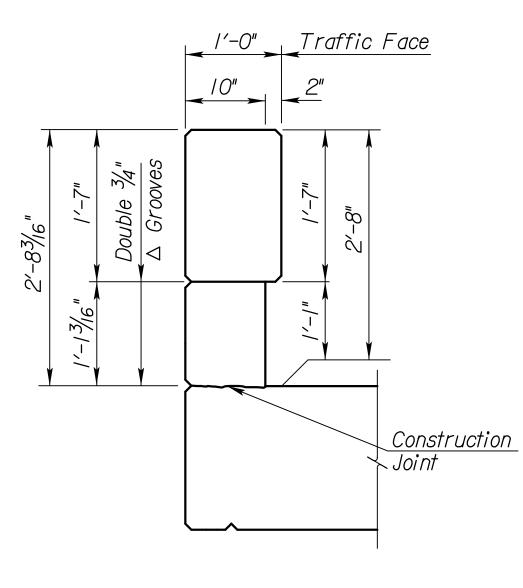
Right Side





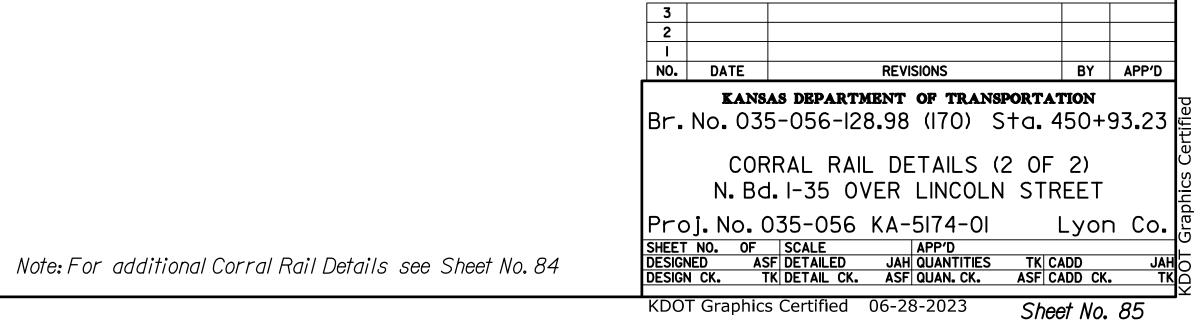


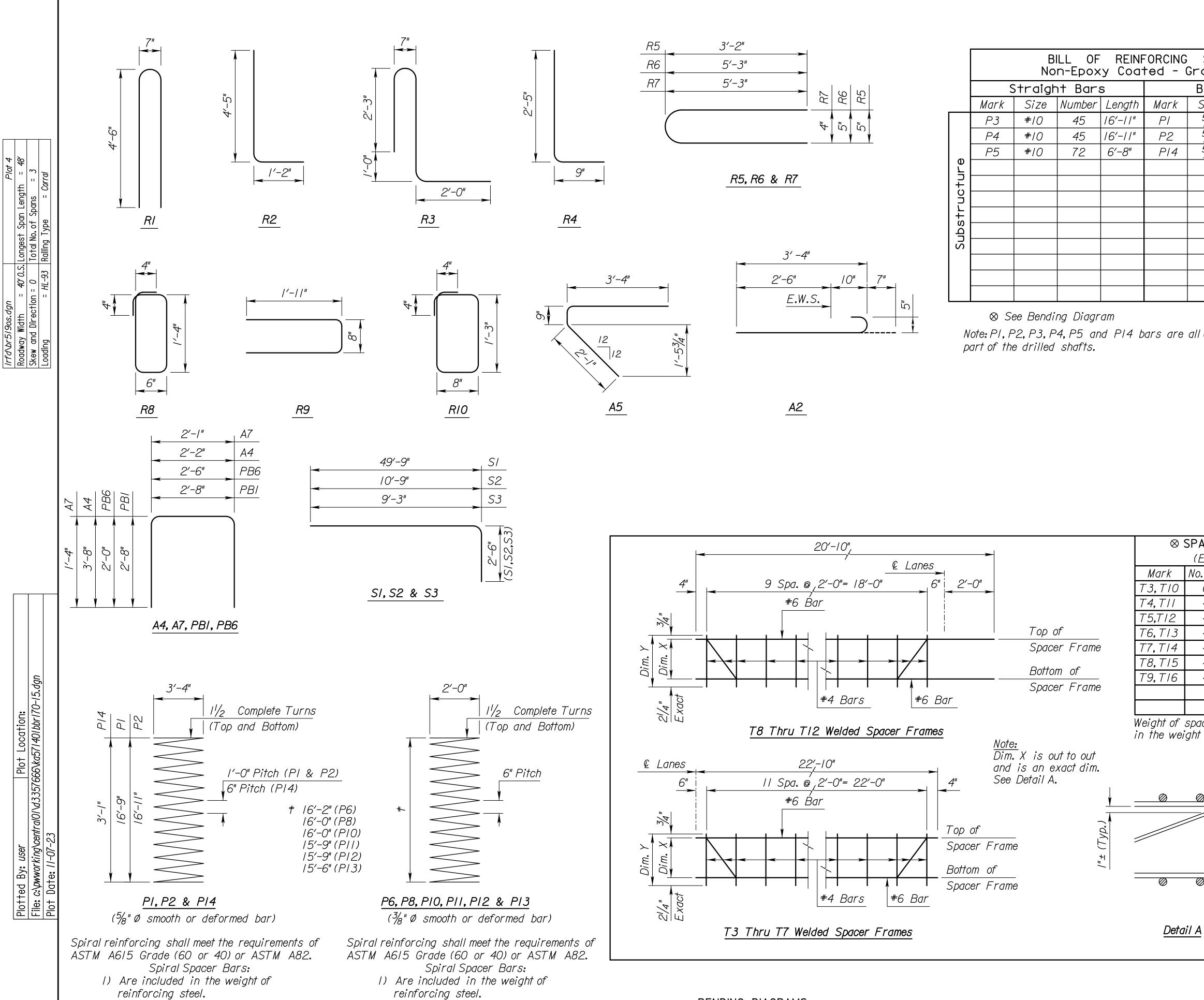




TYPICAL INTERIOR POST

$\begin{array}{c c c c c c c c c c c c c c c c c c c $
$\frac{5}{16}^{"}$ $\frac{dll four corners}{for All Thread}$ $\frac{5}{16}^{"}$ $\frac{dll four corners}{for All Thread}$ $\frac{5}{16}^{"}$ $\frac{7}{16}^{"}$ 7

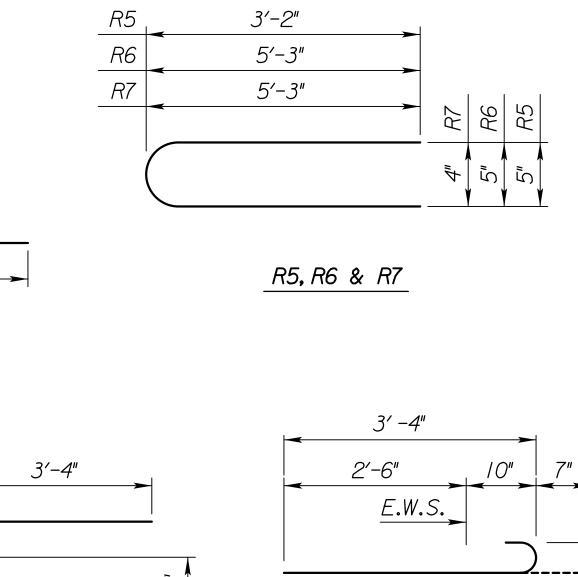




2) Minimum section modulus = 0.30 in³. 3) 4 required per spiral.

3) 4 required per spiral.

2) Minimum section modulus = 0.008 in³

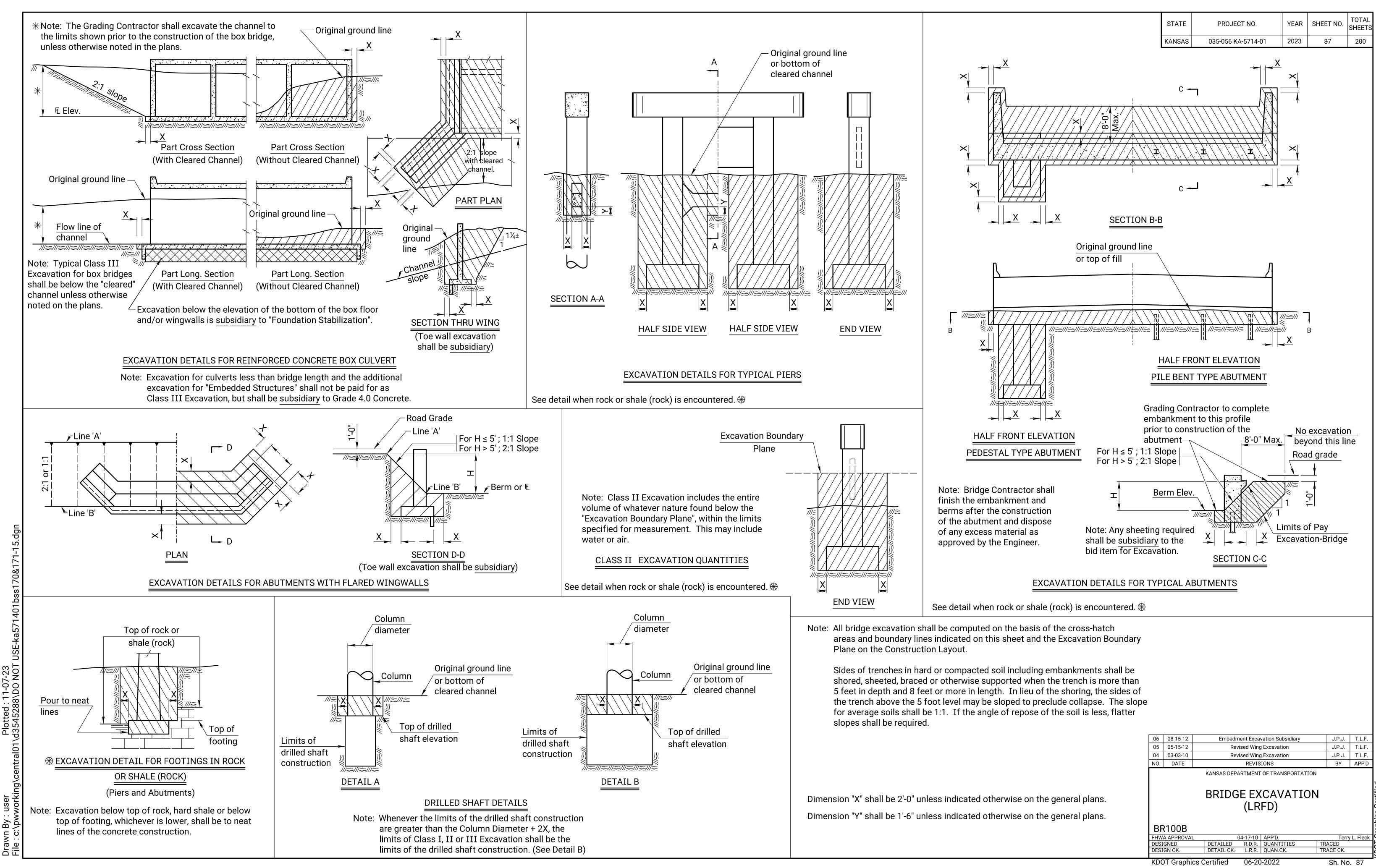


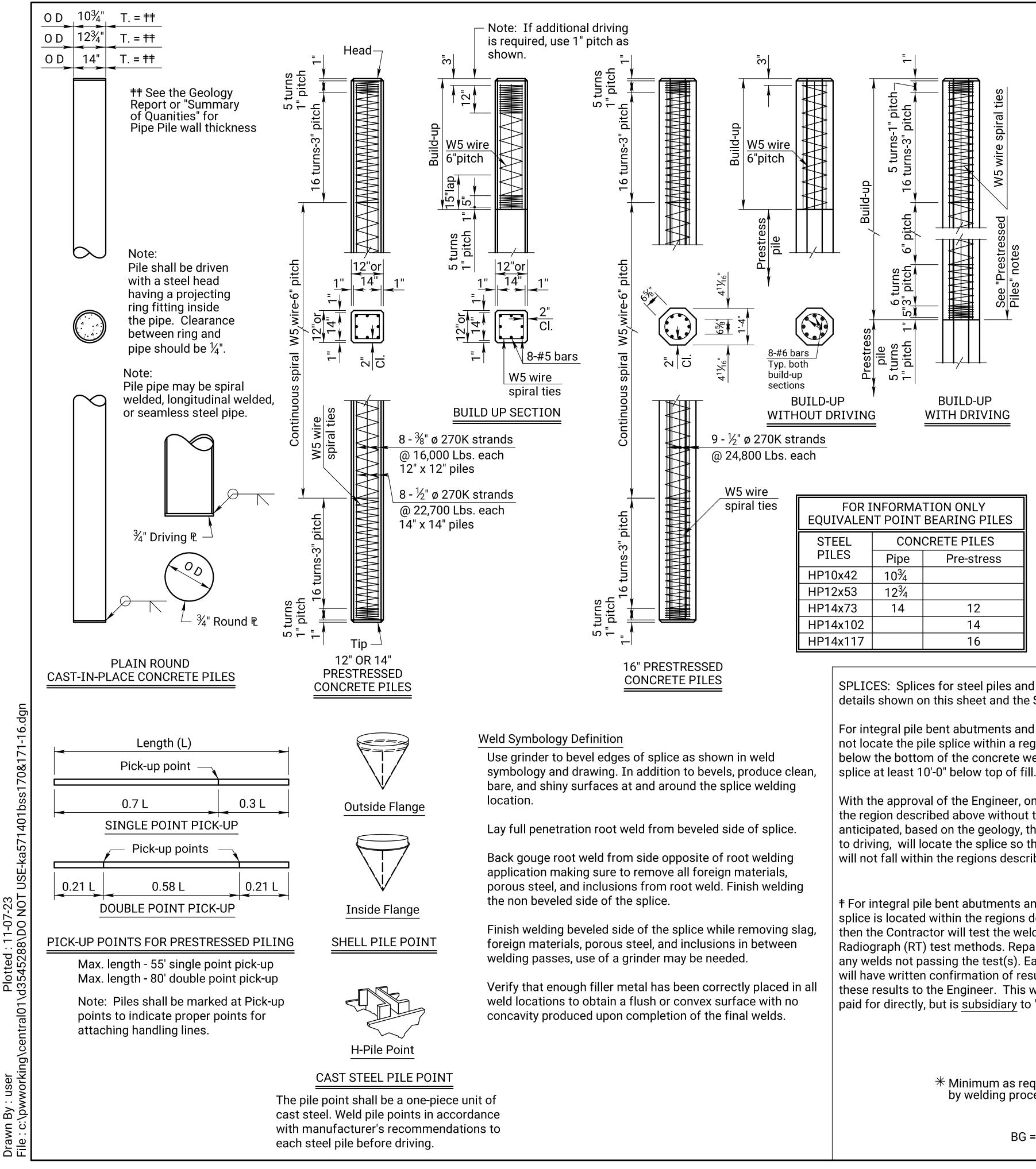
													STATE	PR	OJECT NO.		YEAR	SHEET NO.	TOTAL
												-	(ANSAS		6 KA-57I	4-01	2023	86	SHEETS
г												L	BILL O	F REINF	ORCING	STEE	 EL		<u> </u>
			ILL OF n-Epox		FORCING ted -									Coate					
ļ			nt Bar			1	Bars				S	traig	nt Bai	rs		Bent	Bars	; 	
	Mark P3	Size #10	Number 45	Length 16'-11"	Mark Pl	Size 5/8"	Number 3	<i>Length</i> ⊗		<u> </u>	Mark							r Length	_
	P4	#/0	45	16'-11"	P2	5/8"	3	\otimes			54 56	#9 #9	4 68	40'-6" 40'-0"	S/	#9	72	52'-3	-
Φ	P5	#/()	72	6′-8″	P14	5/s "	6	\otimes			S7	#9	64	44'-6"	RI	#7	24	9'-3"	_
												#9 #9	60 48	38'-0" 31'-9"	R2 R3	#7 #7	218	<u>5'-7"</u> 7'-9"	
											S10	#9	48	30′-3″	S2	#7	68	3'-3"	1
Substr											S11 S14	#9 #9	<u>48</u> 30	20'-0" 50'-0"	53	#7	64	///-9"	_
Sub											S/5	#9	24	35'-6"	A2	#5	80	3'-//"	
										Rail	S16	#9	24	30′-6″	R5	#5 #5	8	6'-6"	
											A/	#8	16	50'-2"	R6	#5	8	10′-8″	-
										eck	S17	#8	24	/9′-6″	A4	#4	202	9'-4"	
٨/,			'ng Diagr P4 P5 ar		bars are	alloope	dered			De	RH	#6	24	8′-3″	A5 A7	#4 #4	80	6'-2" 4'-9"	_
			shafts.								RI2	#6	120	9'-8"	R4	#4	218	3'-2"	_
										Abutment	TI	#6	81	4/′-8″	<i>R</i> 7	#4	4	10′-8″	_
									uctur	1 1 1 2 1	A3	#5	24	50'-2"	R8	#3	332	4'-4"	-
									stri	Ab	R13	#5	16	7'-7"	R9	#3	176	4'-6"	
											A6	#4	2	40'-8"	RIO	#3	44	4'-6"	-
									Super		S5	#4	2	/3′-6″	T3-T16		<u> </u>	\otimes	
											S12 S13	#4 #4	48 48	7′-9″ 8′-9″					_
											S18	#4	40	8'-0"					
											SCI	#4	66	6'-6"					
					× •	SPACER	FRAME	<u>ح</u>			<u>T2</u>	#4	62	4/′-8″					-
							Coated)										<u> </u>		
2'-	0"			-		No. Ea. 6	Dim. X 9"	Dim. Y									+		_
◄					T3, T10 T4, T11	6 4	9 9//6	/'-0" /'-0 [/] / ₁₆ "			PB5	#7	12	4/′-8″	PBI	#5	168	8'-0"	
		T	-f	-	T5,T12	4	9%16"	1'-0%6"		Beam		#0	10			-#- 1			_
		Τοριά Σρας	er Frame		T6, T13 T7, T14	4	10%16" 1'-01/16"	'- ⁹ / ₁₆ " '-3 / ₁₆ "			PB4	#6	10	40′-8″	PB6	#4	20	6′-6″	-
			m of		T8, T15	4	'-2 / ₁₆ "	'-5 / ₁₆ "		Pier	PB2	#5	12	4/′-8″			<u> </u>		
			er Frame		T9, T16	4	′-4%/6"	′-7%/ ₁₆ "			PB3	#5	4	40′-8″					_
nr				F						0 0	P7	#7	36	/9′-0″	P6	3/	/	\otimes	
				W	eight of a	spacer f	rames in einforcing	cluded	-	uctur	P9	#7	36	18'-10"	P8 PI0	3/ " 8 	/	\otimes	_
	Note Dim	: Xisov	ut to out			gni or ru		, 31001.		1					PII			\otimes	
	and	is an e	xact dim.	•					-	STL					PI2	3/ " 8 3/ "	/	8	
4" 	566	Detail A	•	Ļ	Ø	<u> </u>				SUD					P13	3/ " 8		\otimes	-
							<u> </u>				⊗ See	Bendina	' Diaaro	 					
Тор (Space	of er Frame	- 9	Į	(Typ.)			1"± (Typ.)	Dim. X											
Botto	m of		:	<i>∓</i> "_			-												
	er Frame	- 9			0	00	J	<u>I</u>				F	3 2						
							(dct						2 0. DA	re l	R	VISIONS		BY	APP'D
					Deta	<u>il A</u>	21/4" Exact					Ĺ	r.No.	ansas de 035-05 ILL OF	PARTMEN 6-128.9	t of te 8 (170 RCING) Sta STEEL	FATION 450+9 AND	3.23
														. Bd. I-3	5 OVEF	R LINC	OLN S	TREET Lyon	-
												SI	EET NO.	0.035-	.E	APP'D			
													SIGNED SIGN CK.	ASF DETA TK DETA		AH QUANTI SF QUAN. (K CADD F CADD CK.	JAI TI

BENDING DIAGRAMS (All dimensions are out to out of bars.)

KDOT Graphics Certified 11-06-2023

Sheet No. 86





With the approval of the Engineer, one splice per bent may be allowed in 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 will not fall within the regions described above. RT

† 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".

> * Minimum as required by welding process.

PRESTRESSED PILES: Fabricate prestressed in accordance with the Manufacturer's recom the approval of the Engineer.

Method of attachment of pile to build-up may methods given in the notes on "Alternate Meth steel is used for attachment, the area shall be in the build-up.

ALTERNATE METHODS: Method of attachn may be by any of the following methods:

- 1. Cut off at least 2'-0" of pile and expose of strands.
- 2. Cast 8-#6, or 8-#5 bars (equally space bars shall extend into pile head and pro head a minimum of 2'-0".
- 3. Drill 8 holes in pile head (equally space 8 grouted dowel bars of same size and
- 4. Provide cored holes for bars as in 3.

No bars or strands are to extend from head into footing or pile cap unless approved by

TEST PILES: Drive test piles where called for The test piles located within the limits of the become a part of the bridge pile system.

DRIVING FORMULA: Driving formula shall com Specifications.

MEASUREMENT AND PAYMENT: Measurem piles shall comply with the Standard Specifica

REINFORCEMENT: Use reinforcing steel confe Grade 60. Hoops and spirals may be either pla

PRESTRESSING STEEL: Use uncoated seven prestressing strand conforming to ASTM A41

STEEL PILE: Steel pile shall conform to the re-Standard Specifications.

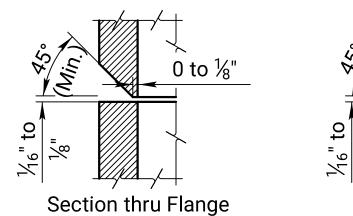
PILE POINTS: Pile points shall conform to th and to requirements of the Standard Specifica

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

Cope regions

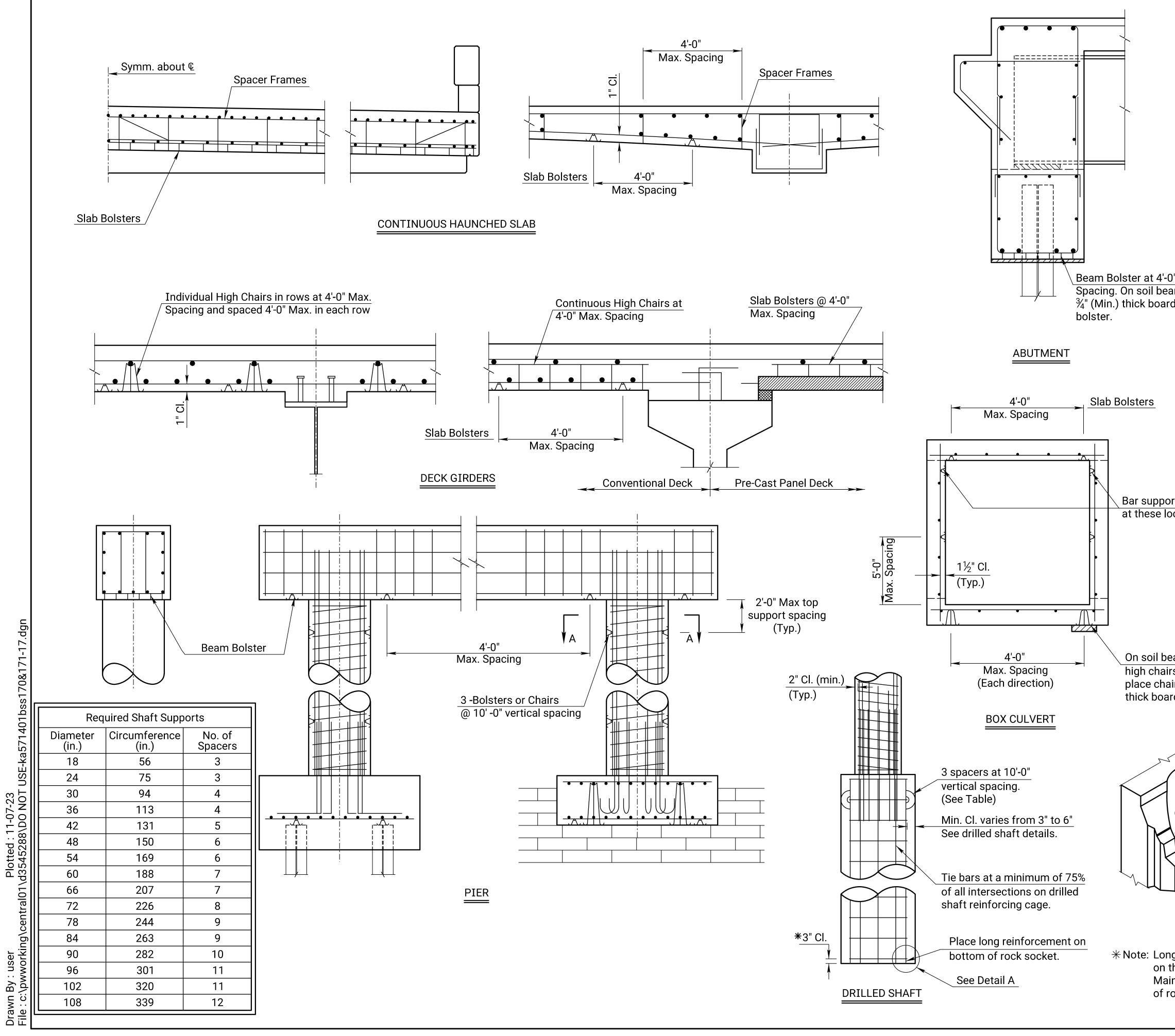
H-Pile Section



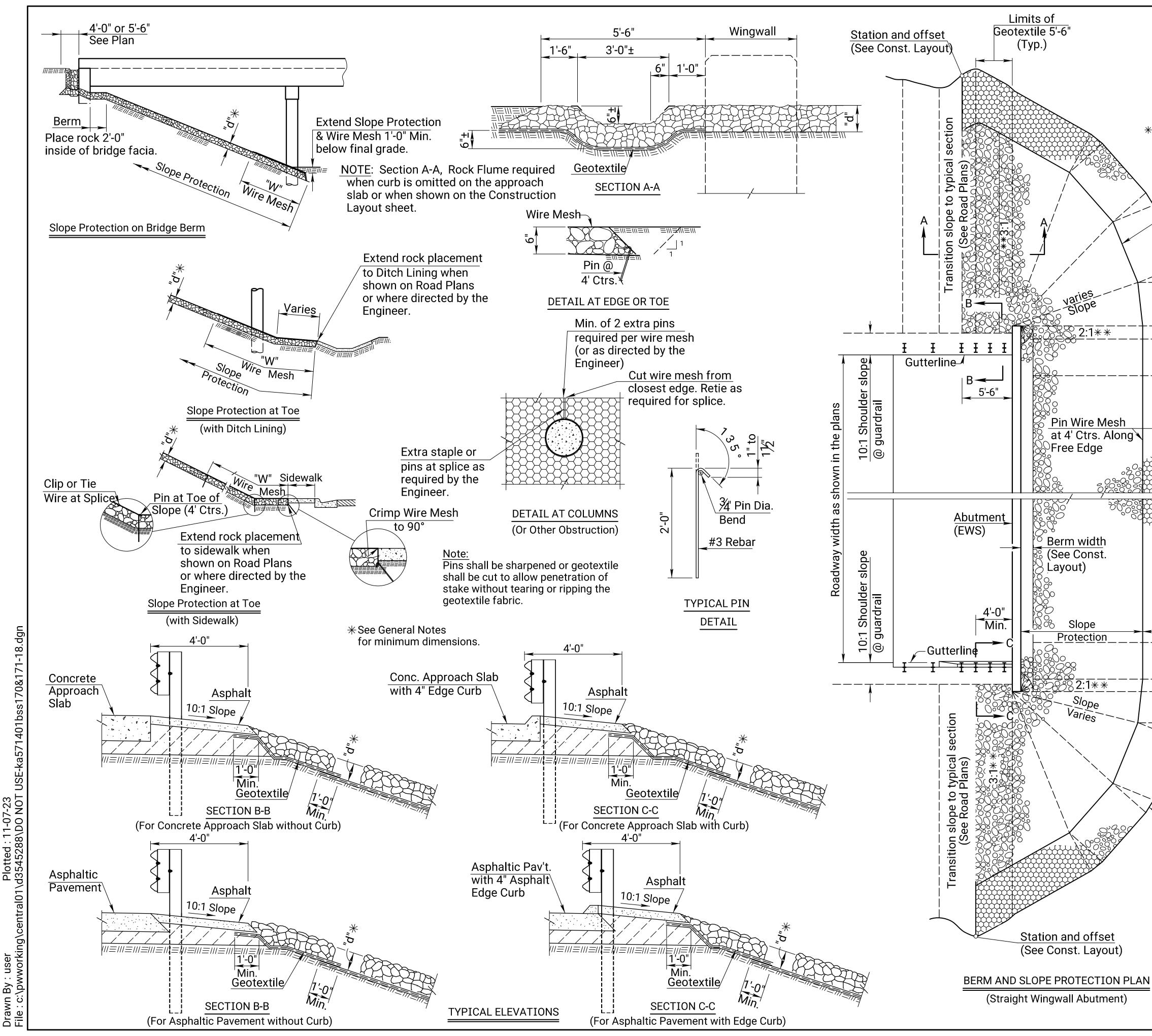
BG = Backgouge

PILE SPLICE DET

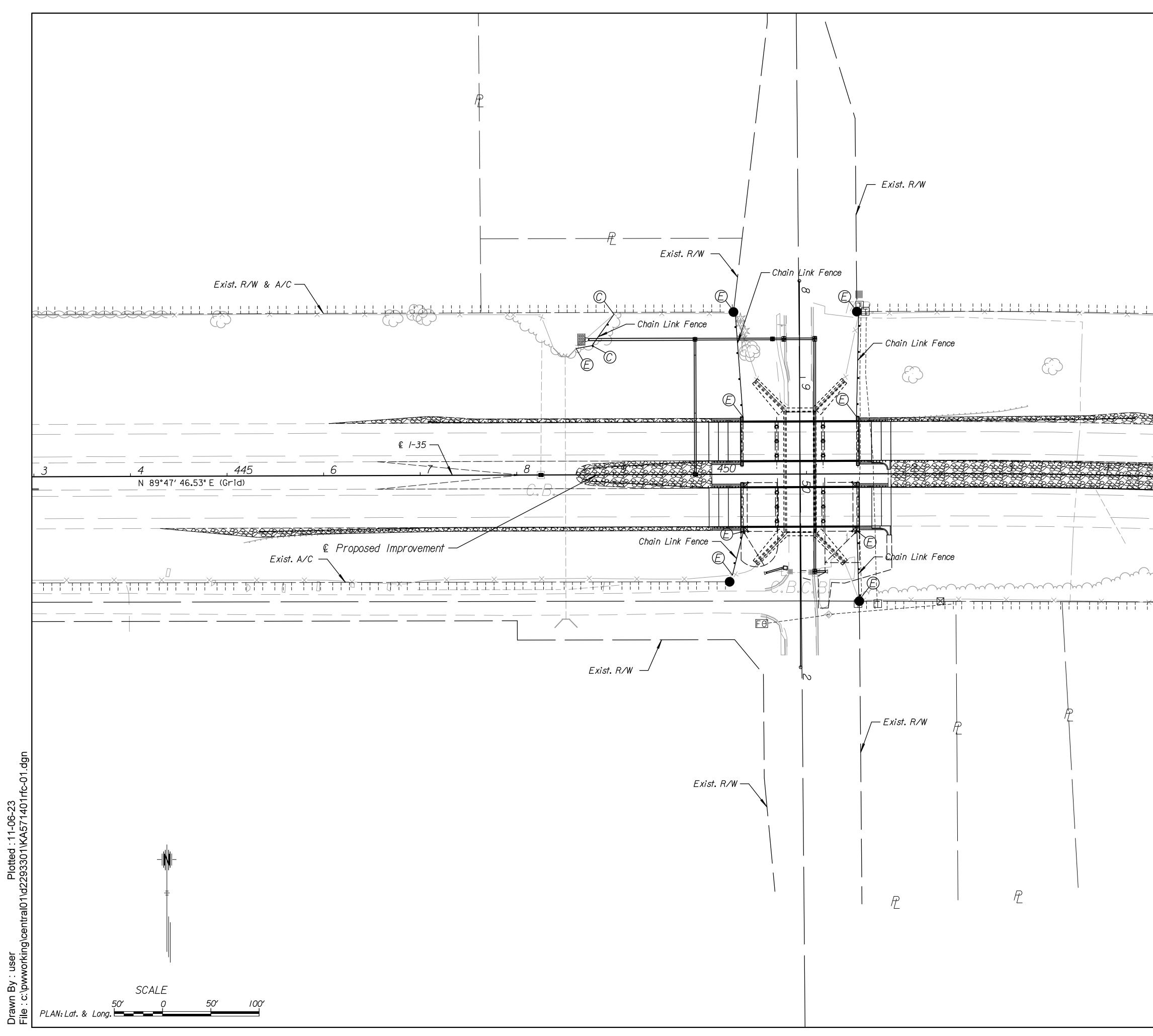
		STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL
GENERAL NOTES		KANSAS	035-056 KA5714-01	2023	88	200
d concrete pile splices mmendations subject to			rd Specifications for S sed by the Kansas De			ridge
y be by any of the thods." If mild reinforcing			ast-in-place shall be f nall be f'c = 5,000 PSI		00 PSI.	
e no less than that used	WELDING: All field Standard Specifica	-	shall meet the requir	ements	of the	
ment of a pile to build-up	Use only Shielded N pile splices.	Metal Arc	h Welding SMAW (sti	ick welc	ling) for	
e a minimum of 2'-0" ed) into pile head. All		•	8, 7016, or 7015 serie pplications during pile		•	
roject from pile ed) for installation of d length as in 2.	electrodes shall arr containers, opened	rive on th I and labe	urchased for each KD e project in factory he eled with indelible ink lude the current date	ermetic in front	ally sealed of the	d
ad of pile or build-up y the Engineer.	number. If the con	tainer se ode is to	al is questionable or ៖ be dried in an oven at	shows s	igns of	
or on the bridge plans. e substructure will	-	electroc	ermetically sealed fac le is to be placed in a re of 250°F)r
onform to the Standard		·	ed from the hermetic	ally sea	led contai	iner
nent and payment for all cations.	•	-	ed to the atmosphere e oven for at least 4 h			
forming to ASTM A615, lain or deformed bars.	If electrode is expo		ne atmosphere for 4 ł istant electrodes des			
n-wire low relaxation 16, Gr. 270.	•	then elec	trode can be dried in	-		
equirements of the he dimensions shown		•	to the atmosphere fo comes wet discard ro		s or more	<u>}</u>
cations.			teel shells for cast-in ments of the Standa	•	•	
RT +	thicknesses shown sufficient strength	i. Piles d and thic harmful	andrel shall be of the riven with a mandrel s kness to withstand dr distortion and/or buc drel is removed.	shall be riving wi	of ithout	
	improperly driven, b	oroken o	to the satisfaction of r otherwise defective al pile at no extra cos	pipe pil	•	
Pipe Section		ile on the	ain a light suitable for gob at all times prior			
RT ' BG	PAINT: All paint sh as specified on the	-	bly with the Standard	Specific	cations, or	
			l piles test reports an th the Standard Spec			
tion						
	04 03 02 NO.	08-16-18 09-15-15 06-18-12 DATE	Add splice web section, c Clarify Notes Clarify f'c, rod type, use a REVISIONS	and weld	M.L.L. J.P.J. J.P.J. BY	. C.E.R.
			STANDARD PILE			
Section A-A		R110				
(Thru web)		VA APPROVAL SIGNED J.F	10-04-12 APP'D P.J. DETAILED QUAN). ITITIES	Tei	rry L. Fleck R.A.A



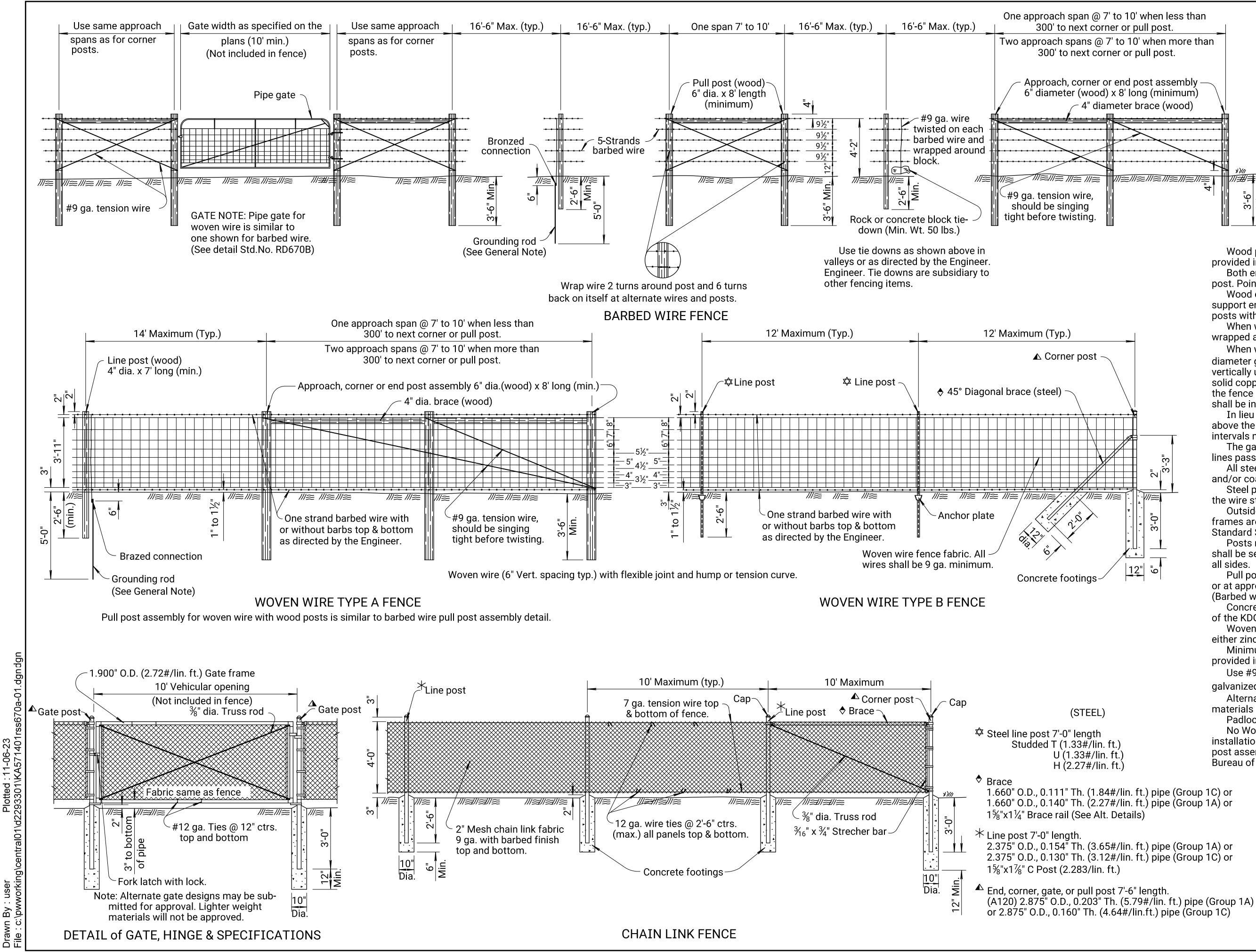
Description Description Description Description Description of Max CENERLOTES Enformed the full statest edition of the CRSI Manual of Standard Practices' for recommended industry practices concerning. Use only the following types of bar supports: Use only the following types of bar supports or to other formed sufficient on the following steel to bar supports or to other following types of bar supports or to other following types of bar supports or to other supports or to other following types of bar supports or to other supports or to other supports or to other supports or the type sufficient supports or to other supports or the type sufficient supports or to other supports or the type sufficient support of workers and/or following type of the type sufficient support of workers and/or sufficient supports or the type sufficient support of workers and/or sufficient support of wo			i		1	1	1	
<text><text><text><text><text><list-item> Of Max. of Max. of Max. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of Mat. of</list-item></text></text></text></text></text>			STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS	
Arring pictors Afference is made to the latest edition of the CRSI 'Manual of Standard Practice' for recommended industry practices concerning. Use only the following types of bar supports: 			KANSAS	035-056 KA-5714-01	2023	89	200	
Standard Practice' for recommended industry practices concerning reinforcing steel. Use only the following types of bar supports: 1) Wire Bar Supports: 2) Mox. 40' Mox. 1) Plastic Bar Supports: 3) Supplementary bars When securing epoxy coated reinforcing: Class 1, 2, or 3 Protection 2) Mox. rd under a' Mox. ard under a' Mox. ard under a' Mox. ard under ard under ard under ard under ard under forchord steel			GENERAL NO	DTES				
 1) Wre Bar Supports: a) Epoxy coated reinforcing: Class 1 Protection b) Non-epoxy coated reinforcing: Class 1, 2, or 3 Protection c) Plastic Bar Supports c) Supplementary bars Wre Bar Supports coated reinforcement, use tie wires or metal clips that are epoxy or plastic coated. c) Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for hounched slabs. The bars at all intersections around the perimeter of each mat and at routees than 2°0° centers or at every intersection, whichever is greater. Wree more than one length of bar support is required. Iap the end legs to they are locked or tied together. Use proper height supports to minimatin the distance between the reinforcing and the formed surface or the top surface of deck slabs within ½° of that indicated on the plans. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the inforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the together. Section 4.2 °C to spiral or Te. Kit sond plates, or an explored to the support to struct any class the structure is the support show the structure is th		Standard Practice" for				rning		
 a) Epoxy coated reinforcing: Class 1 Protection b) Non-epoxy coated reinforcing: Class 1, 2, or 3 Protection c) Hastic Bar Supports c) Supplementary bars When securing epoxy or plastic coated. c) Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for hounched slabs. The bars at all intersections around the perimeter of each mat and at proper height supports or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs to they are locked or tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within ¼ of that indicated on the plans. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports of Spacers other than as shown on this steet, may be used with the permission of the reinforcing at the formed support is on a shown on this steet, may be used with the permission of the reinforcing at easing equip individual steed. Future Work Socket. Future Work Socket. Future Time the form of Rock Socket. Future Time the form of the rock socket. The battor of the rock socket. The battor of the rock socket. The battor of the rock socket. The rock socket to the first spiral or the battor of the rock socket. 		Use only the following	types of bar	supports:				
 b) Non-époxy coated reinforcing: Class 1, 2, or 3 Protection 2) Plastic Bar Supports 3) Supplementary bars O' Max. arring, Jace a or induder C) Max exports C) Max exports C) Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for haunched slabs. The bars at all intersections around the perimeter of each mat and at not less than 2-0° centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs so they are locked or tied together. Use proper height supports to maintain the distance between the frainforcing atteet in deformed surface or the top surface of deck slabs within ¼" of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. Section Advanced the top surface of deck slabs within ½" of the individual If with sand plates, or als on 3/2 (Min.) and		1) Wire Bar Supports	5:					
3) Supplementary bars 0' Max. and under and under 2) Supplementary bars When securing epoxy coted reinforcement, use tie wires or metal clips that are epoxy or plastic coated. Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for haunched slabs. The bars at all intersections around the perimeter of each mat and at on the stantary 2-0' centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs so they are locked on the top surface of the top surface of deck slabs within χ^u of the indicated on the plans. orts optional coations Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the inforcing steel. earing, equip individual irs with and plates, or aris on a'' ('Min'), with Earing equip individual irs with sand plates, or aris on a '' ('Min'), with earing, equip individual irs with and plates, or aris on a '' ('Min'), with Earing equip individual is on a '' ('Min'), with earing, equip individual irs with and plates, or aris on a '' ('Min'), with Earing equip individual is on a '' ('Min'), with the perimeter of each state sequent equipment is on a '' ('Min'), with the perimeter of each state sequent equipment is on a '' ('Min'), with the perimeter of each state sequent equipment is on a '' ('Min'), with the perimeter of each state sequent equipment is on a '' ('Min'), with the perimeter of each state sequent equint equipment is on a '' ('Min'), with the p			•		otectio	n		
O' Max. baring place a rd under When securing every coated reinforcement, use tie wires or metal clips that are epoxy or plastic coated. Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for haunched slabs. The bars at all intersections around the perimeter of each mat and at not less than 2-0° centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end less os they are locked or tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within ½° of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. earing, equip individual iris with sand plates, or aris on a ½ (Min.) ard. Signator Tie. (Typ.) (Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. earing equip individual iris with sand plates, or aris on a ½ (Min.) ard. Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. Ministree or flock Socket. Supports or Spacers other than as shown or the socket. Supports or Spacers other than asto to the the souther thereit or the souther the south		2) Plastic Bar Suppo	rts					
arring, place a rd under clips that are epoxy or plastic coated. Do not weld reinforcing steel. Shop weld spacer frames for haunched slabs. The bars at all intersections around the perimeter of each mat and at not less than 2:0° centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs so they are locked or tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within ¼ of that indicated on the plans. orts optional ocations Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. earing, equip individual irs with sand plates, or airs on a ¾ (Min.) Bolsters or Chairs bits devine and areagene frequind (Typ.) SECTION AA bits devine of fock socket. Implation of fock socket. bits devine of the rook socket. Implation of the rook socket. bits devine and sance from the bottom fock socket to the first spiral or tie bar. Implation <u>the rook socket. BIT 120 Implation <u>the rook socket. Implation <u>the rook soc</u></u></u>		3) Supplementary ba	ars					
Do not weld reinforcing steel to bar supports or to other reinforcing steel. Shop weld spacer frames for haunched slabs. Tie bars at all intersections around the perimeter of each mat and at not less than 2-0° centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs so they are locked or tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within ½° of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. wearing, equip individual irs with sand plates, or airs on a 3°. (Min.) ard If the ford of the support of workers and not on the reinforcing steel is placed the bottom of Rock Socket. DETAIL A mgltudinal reinforcing steel is placed the bottom of the tox socket. initian 3° dearmace from the bottom rock socket to the first spiral or the bottom of the rock socket. DETAIL A SUPPORTS AND SPACERS FOR REINFORCING STEEL Britan 3° dearmace from the bottom rock socket. wintain 3° dearance from the bottom rock socket. <					s or me	etal		
at not less than 2:-0' centers or at every intersection, whichever is greater. Where more than one length of bar support is required, lap the end legs so they are locked or tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within ½ of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. earing, equip individual irs with 3 and plates, or airs on a% (Min.) ard. DETAIL A ngitudinal reinforcing steel is placed the bottom of Rock Socket. DETAIL A ngitudinal reinforcing steel is placed the bottom of the rock socket. DETAIL A Number of the rock socket. DETAIL A Number of the rock socket. DETAIL A Number of the rock socket. Number of the rock socket. DETAIL A Number of the rock socket. Number of the rock socket. DETAIL A Number of the rock socket. </td <td>rd under</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>	rd under		•					
legs so they are locked of tied together. Use proper height supports to maintain the distance between the reinforcing and the formed surface or the top surface of deck slabs within $\frac{1}{4}^{*}$ of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. rearing, equip individual irs on 3 ⁴ / ₄ (Min.) arr (Typ.) Bolsters or Chairs Bolsters or Chairs Bolsters or Chairs Section AA Support to represent the bottom of Rock Socket. Initian 3° clearance from the bottom rock socket to the first spiral or tie bar.		at not less than 2'-0" c		•				
reinforcing and the formed surface or the top surface of deck slabs within ½" of that indicated on the plans. Spacings shown are maximums. Use sufficient supports, as determined by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. Bolisters or Chairs (Typ.) Bolisters or Chairs (Typ.) Bolisters or Chairs Bolisters or Chairs SECTION A-A			•		ap the o	end		
by the Engineer, to retain the reinforcing steel in position. Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. earing, equip individual irrs with sand plates, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs on a ¾* (Min.) ard. If yes, or airs or chairs or chairs or the step and blace step attem the area area to a way are to a more area area area area area and way area to a way area area area area area area area ar		reinforcing and the for	rmed surface	or the top surface of				
Construct any platforms, required for the support of workers and/or equipment during concrete placement, directly on the forms and not on the reinforcing steel. Designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. Bolters or Chairs (Typ.)								
as shown on this sheet, may be used with the permission of the Engineer.		equipment during con	•	• •				
irs with sand plates, or airs on a ¾" (Min.) ard. Bolsters or Chairs Bolsters or Chairs SECTION A-A (Typ.) SECTION A-A SECTION A-A SECTION A-A Bolsters or Chairs SECTION A-A Section of Rock Socket. Section of Rock Socket. DETAIL A Mo Date Ingitudinal reinforcing steel is placed the bottom of the rock socket. No Date Reinformation of the rock socket. SUPPORTS AND SPACERS FOR REINFORCING STEEL BR120 THYLA PERONAL PHYLA APPROVAL THAA ADPROVAL PHYLA REPROVAL THAA ADPROVAL PHYLA REPROVAL THAA ADPROVAL PHYLA REPROVAL THAA DEPONENT TRACE OK RAA		as shown on this shee		•		è		
District of Orbitality Image: Constraint of the constrai	irs with sand plates, or		1					
$\frac{11-10-10}{12-01-05} \xrightarrow{Column Bar Supports Required}{J.P.J. T.L.f}$ $\frac{12-01-05}{Drilled Shaft Spiral Steel Placement} \xrightarrow{J.P.J. T.L.f}$ $\frac{12-01-05}{04} \xrightarrow{Drilled Shaft Spiral Steel Placement} \xrightarrow{J.P.J. K.F.}$ $\frac{12-01-05}{04} Drilled Shaft Spiral Steel Placement$	ard.	- <u> </u>	hairs					
$\frac{11-10-10}{12-01-05} \xrightarrow{Column Bar Supports Required}{J.P.J. T.L.f}$ $\frac{12-01-05}{Drilled Shaft Spiral Steel Placement} \xrightarrow{J.P.J. T.L.f}$ $\frac{12-01-05}{04} \xrightarrow{Drilled Shaft Spiral Steel Placement} \xrightarrow{J.P.J. K.F.}$ $\frac{12-01-05}{04} Drilled Shaft Spiral Steel Placement$								
Bottom of Rock Socket. DETAIL A ngitudinal reinforcing steel is placed the bottom of the rock socket. aintain 3" clearance from the bottom rock socket to the first spiral or tie bar. FHWA APPROVAL 11-17-10 APP'D. FHWA APPROVAL 11-17-10 APP'D. Terry L. Flee DESIGN CK. L.R.R. DETAIL CK. RAM. USE USE USE USE USE DETAIL A USE USE DETAIL A USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE USE <td>*3"0</td> <td>I. to Spiral or Tie.</td> <td></td> <td></td> <td></td> <td></td> <td></td>	*3"0	I. to Spiral or Tie.						
Bottom of Rock Socket. DETAIL A ngitudinal reinforcing steel is placed the bottom of the rock socket. aintain 3" clearance from the bottom rock socket to the first spiral or tie bar. BR120 FHWA APPROVAL 11-17-10 APP'D. FHWA APPROVAL 11-17-10 APP'D. Terry L. Flee DESIGNED R.A.M. DETAIL R.			05 11-10-10	Column Bar Supports Re	equired	J.P.J.	T.L.F.	
DETAIL A ngitudinal reinforcing steel is placed the bottom of the rock socket. aintain 3" clearance from the bottom rock socket to the first spiral or tie bar. FHWA APPROVAL 11-17-10 APP'D. Terry L. Flee DESIGNED R.A.M. DETAILED R.A.A. QUANTITIES TRACED R.A.A. DESIGN CK. L.R.R. DETAIL CK. R.A.M. QUAN.CK. TRACE CK. R.A.M.	Botto	om of Rock Socket.	03 08-21-00	Drilled Shaft Spiral Steel P Added Pre-Cast Panel I	lacement	J.P.J. R.A.M.	K.F.H. K.F.H.	
ngitudinal reinforcing steel is placed the bottom of the rock socket. aintain 3" clearance from the bottom rock socket to the first spiral or tie bar. FHWA APPROVAL 11-17-10 APP'D. Terry L. FleetDESIGNED R.A.M. DETAILED R.A.A. QUANTITIES TRACED R.A.A.DESIGN CK. L.R.R. DETAIL CK. R.A.M. QUAN.CK. TRACE CK. R.A.M.	DETAIL A		NO. DATE		NSPORTAT		APP'D	
the bottom of the rock socket. aintain 3" clearance from the bottom rock socket to the first spiral or tie bar. FHWA APPROVAL 11-17-10 APP'D. Terry L. Flee DESIGNED R.A.M. DETAILED R.A.A. QUANTITIES TRACED R.A. DESIGN CK. L.R.R. DETAIL CK. R.A.M. QUAN.CK. TRACE CK. R.A.M.	ngitudinal reinforcing steel	is placed			SPAC	ERS		
BR120 FHWA APPROVAL 11-17-10 APP'D. Terry L. Fleet DESIGNED R.A.M. DETAILED R.A.A. QUANTITIES TRACED R.A.A. DESIGN CK. L.R.R. DETAIL CK. R.A.M. QUAN.CK. TRACE CK. R.A.M.	the bottom of the rock soc	cket.			S STE	EL		
DESIGNED R.A.M. DETAILED R.A.A. QUANTITIES TRACED R.A. DESIGN CK. L.R.R. DETAIL CK. R.A.M. QUAN.CK. TRACE CK. R.A.I						Tor		
			DESIGNED R.A.	M. DETAILED R.A.A. QUANT		TRACED	R.A.A.	
				· ·				



			STATE	PROJECT N	IO. YEAI	R SHEET NO.	TOTAL SHEETS
			KANSAS	035-056 КА-57 GENERAL N		3 90 [.]	200
	1.	Layout sh	neet. Limit of the Eng	ection are show s may be adjus ineer to match	ted as neede	d at the	
* Slope 2:1 or as shown on Construction Layout sheet.	2.	shall mee	et the requi d have a De	egate for the Sl rements of sto 50 of 4 inches u	ne for Aggreg	gate Ditch	te)
Limits of Wire Mesh (Typ.) At the direction of the Engineer; the wire mesh may be "racked" 6"± to adjust direction. Station and offset (See Const. Layout) <u>10'-0"</u> Limits of Geotextile Pier column (Typ.) (Location varies)	h 4.	opening o width up widths gr the furnis facturer l made wit or stainle of the wir ravelling meet the Specification in the Pla wire mes Protection Excavation and all w shall be s	of 2 ¹ / ₂ "x3 ¹ / ₄ " to widths of reater than shed width but not less th PVC coar ess steel fa re mesh sh of the mesh material re tions. Wire ans and sho h is specifi on (Special) on and grad ork and ma subsidiary t	PVC coated and Wire mesh shot 12.0 feet ("W 12.0 feet are s shall be as rec s than 6.0 feet. ted lacing wire, stener clips. T all be securely h. Wire mesh a equirements for e mesh shall no own in the Table ed, the bid iter " and wire mes ling for placem terial to install o slope protect	hall be furnish "= 12.0 ft.). We pecified on the ommended be All splices she PVC coated he longituding selvedged to and tie wires she to be used unle of Quantities h shall be "She h shall be sub pent of slope per geotextile faction.	ned full When ne plans, y the manu- hall be wire ties, al edges prevent shall the KDOT less noted es. When ope osidiary. protection bric	
Pier column (Location varies) Wire Mesh	5.	in limits s construct shall be i manufact installation The instal overlaps, be 1 ft. F a maximum (w/washow stapled a than 5 fo 12 inches	shown. Fab tion shall b nstalled an turer. One o on procedu and pin la abric shall um of 3 foc ers). Interio ot centers. s in length.	all be underlain ric damaged of e replaced at n d secured as re (1) copy of the re shall be sub cedure shall sh yout. Minimun be anchored al ot centers with or area of fabri- ended by the m Pins or staple Geotextile fab	r displaced du o cost to KDO ecommended fabric manuf mitted to the ow details of n overlap of g ong edges an staples or pir c shall be pin anufacturer b s shall be a m ric shall mee	uring DT. Fabric by the fabr acturer's Engineer. the splices eotextile sh d splices at ns ned or put not mor- ninimum of	ic all
"W" Pier column (Location varies)		"d" shall I The Cont the top o produces	be a minim tractor shal f the slope s a reasona	vise on the Cor um of 6 in., "W" I place the rock Place the roc bly well gradec naterial sizes.	shall be 12.0 c from the bo k in a manner l mass of roc) ft. ttom to which k without	nt,
		and payn Slope Pro		onform to KDC)T Specificati	ons for	
(See Const. Layout)			Bridge	† For InforSlopeProtection(††)		+Wire Mes	:h
Cut and splice wire mesh as needed and as approved by the Engineer to construct transition area of wire mesh			Number 171	Cu. Yds.	Sq. Yds. 193	Sq. Yds. 317	
++(Aggregate) or (Spand Thickness	oeci	al)	03 12-10-10 02 07-14-04 01 05-15-02 NO. DATE	Chango Clari R	fied Geotextile ed to guard "rail" fied Bid Items EVISIONS //ENT OF TRANSPORT	J.P.J. R.A.M R.A.M BY	
			STR BR132A	SLOPE F AIGHT WIN			Т



					TOTAL
	STATE				SHEETS
	KANSAS	035-056 KA-57	2023	91	200
					64483-1 641893
Exist. R/W & A/O	С				
	<u> </u>				
	X	<u> </u>	<u> </u>		
	2				
Y SY	7				
				9	
	mm				
Exist. R/W & A/C					
R R	Ĥ				
	1		Ŕ		
	1				
			EGEND rner Post		
			d Post		
	××	——×	isting Fence		
	•	Pro	oposed Fence		
Γ	KANGVC	DEPARTMEN	NT OF TRA	NSPORTA	
			I_ < L		10
			I-35 Ing pi an		L Gran
		FENC	I-35 ING PLAN 3-29-2023		TION Cartified



n span @ 7' to 10' when less than o next corner or pull post.	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	92	200
spans @ 7' to 10' when more than o next corner or pull post.					1
h, corner or end post assembly ter (wood) x 8' long (minimum) 4" diameter brace (wood)					
·····					
on wire, inging wisting.					

GENERAL NOTE

Wood posts and braces shall be given a preservative treatment as provided in the KDOT Standard Specifications.

Both ends of all wood posts shall be cut normal to the axis of the post. Pointed posts will not be permitted.

Wood corner, end, pull and approach posts shall be notched to support ends of wood braces. Wood braces shall be toenailed to the posts with 2-10d nails in each end of the brace.

When wood posts are used, both ends of all tension wires shall be wrapped around the posts twice and stapled in place.

When wood posts are used the fence shall be grounded by a $\frac{5}{3}$ " diameter galvanized or copper coated rod five feet long, driven vertically until the top is six inches below the ground surface. A #6 solid copper conductor shall be securely fastened to each element of the fence by use of clamps or other suitable device. Grounding rod shall be installed at intervals of 175' maximum.

In lieu of using the galvanized or copper coated rod as described above the contractor may, at his option, use a steel line post at intervals not to exceed each eighth post.

The galvanized or copper coated rod shall be used where power lines pass over the fence.

All steel posts, braces, fittings, and gate frames shall be galvanized and/or coated in accordance with the Standard Specifications.

Steel posts shall be provided with fasteners prevent slippage of the wire strands.

Outside diameters shown for tubular steel posts, bracing and gate frames are nominal. Weight tolerances shall be as shown in the KDOT Standard Specifications.

Posts may be set by driving or digging. If by digging, the posts shall be set in the center of the hole and the soil tamped securely on all sides.

Pull post assembly shall be used at sharp breaks in vertical grade or at approximately 330' centers (Woven & Chain link) or 1320' centers (Barbed wire) on straight runs or as directed by the Engineer.

Concrete used in fence installation shall conform to the requirements of the KDOT Standard Specifications.

Woven wire, chain link fabric, barbed wire and tension wire shall be either zinc coated (galvanized) or aluminum coated.

Minimum strength of barbed wire and tension wire shall be as provided in the KDOT Standard Specifications.

Use #9 gauge galvanized staples $1\frac{1}{2}$ " to $1\frac{3}{4}$ " long, or #9 guage galvanized Ring-shank staples $1\frac{1}{2}$ " to $1\frac{3}{4}$ " long.

Alternate gate designs may be submitted for approval. Lighter weight materials will not be approved

Padlocks for gates shall be furnished by the State.

No Wood Posts are allowed for new or reconstruction fence installations on the State Highway System. Shop drawings for steel gate post assembly designs are to be submitted to the State Road Office, Bureau of Design for approval prior to construction

NO.	DATE	REVISIONS	BY	APP'D
07	11-02-04	Added assembly to end post label	S.W.K.	J.O.B.
08	11-08-05	Revised brace dimension	S.W.K.	J.O.B.
09	11-30-09	Rev. post listing,wood po. restrict.	S.W.K.	J.O.B.

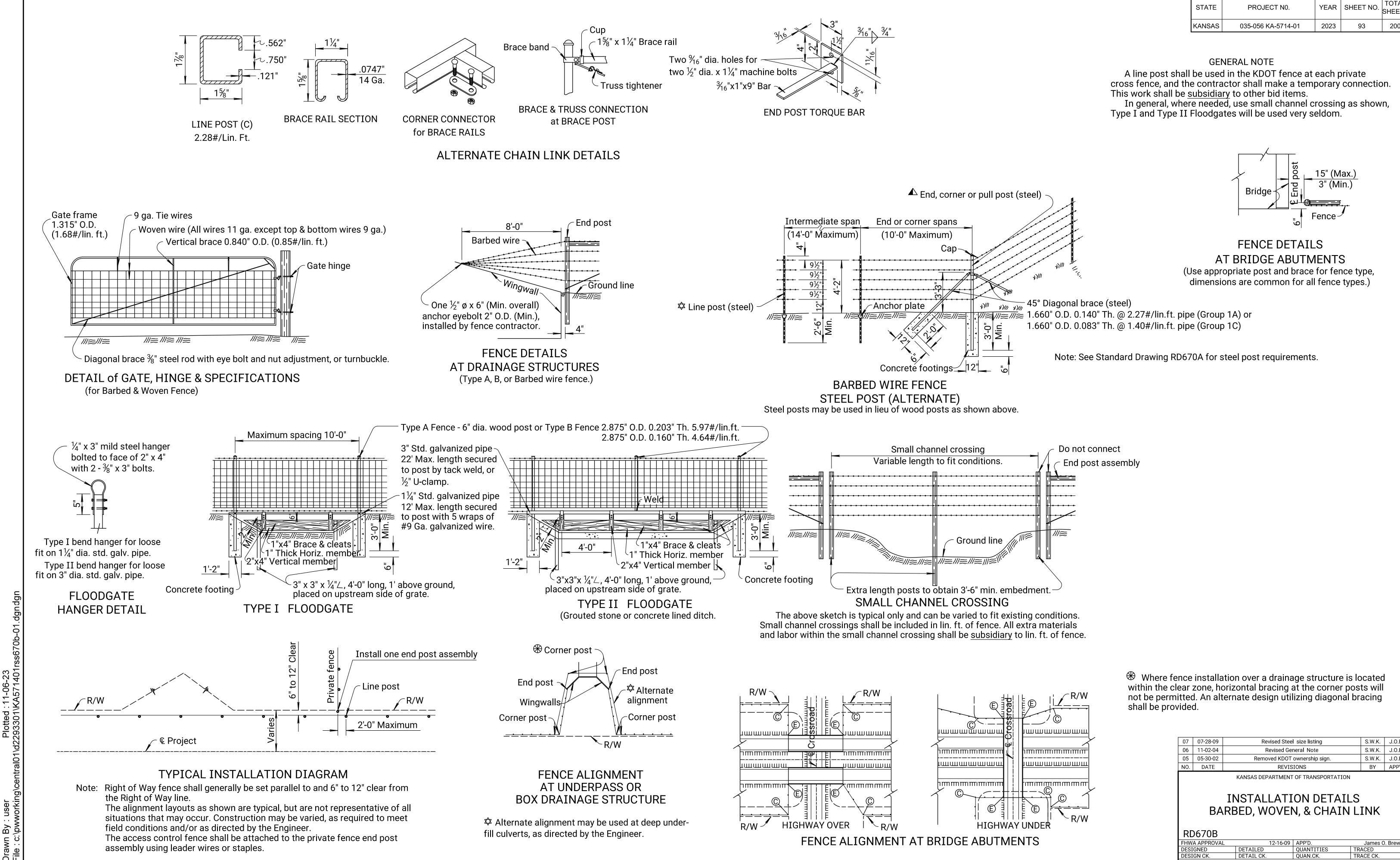
KANSAS DEPARTMENT OF TRANSPORTATION

HIGHWAY FENCE BARBED, WOVEN, & CHAIN LINK

				-jc
RD670A				rapl
WA APPROVAL	12-16-09	APP'D.	James O. Brev	ver O
ESIGNED	DETAILED	QUANTITIES	TRACED	
ESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.	
				$ \ge$
DOT Graphics C	ertified 05-1	6-2022	Sh. No. 9	2

KDOT Graphics Certified

Sh. No. __92__



STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	93	200

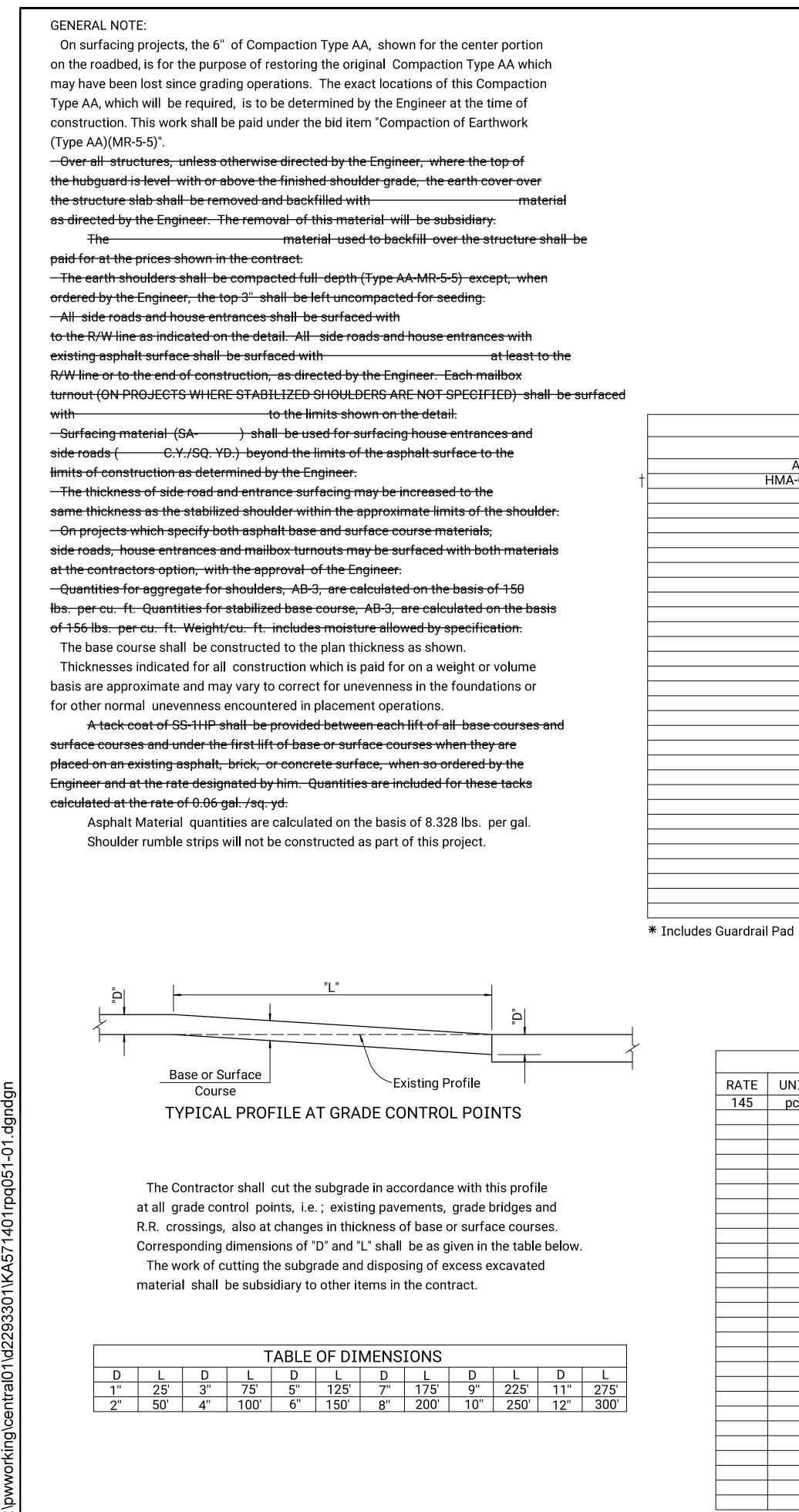
07	07-28-09	Revised Steel	size listing	S.W.K.	J.O.B.
06	11-02-04	Revised Ger	neral Note	S.W.K.	J.O.B.
05	05-30-02	Removed KDOT	ownership sign.	S.W.K.	J.O.B.
NO.	DATE	REVIS	IONS	BY	APP'D
		KANSAS DEPARTMENT	OF TRANSPORTATION		
	_	INSTALLATI RBED, WOVEN			
R	D670B				
FHW	A APPROVAL	12-16-09	APP'D.		
1 1 1 1 4 4				James C). Brewer
	IGNED	DETAILED	QUANTITIES	James C TRACED). Brewer

05-16-2022

KDOT Graphics Certified

Sh. No. <u>93</u>

FENCING			STATE PROJECT NO. YEAR SHEET NO. TOTAL SHEETS
POSTS (EA)			STATE PROJECTINO. FEAR SHEETINO. SHEETS KANSAS 035-056 KA-5714-01 2023 94 200
FENCE LENGTH (FT.) CORNER END	ALIGNMENT STATION SIDE QUANTITY (EACH)		
STA 448+61.91 TO STA 449+01.31 LT 56.3 2 1 I-35 STA 48+33.45 TO STA 51+03.92 RT 154.1 4 Lincoln St. STA 48+24.28 TO STA 51+20.87 LT 178.2 4 Lincoln St.	I-35 451+67.48 RT 1 I-35 451+67.48 LT 1	RECAPITULATION OF BRIDGE QUANTITIES	RECAPITULATION OF ROAD QUANTITIES ITEM QUANTITY UNIT
STA 48+34.28 TO STA 51+30.87 LT 178.2 4 Lincoln St., Avoid Ex. Telecom Util. TOTALS 388.6 2 9	TOTAL 2	BRIDGE NUMBER STATION SEE SHEET NO. Br. No. 35-56-128.98 (170) 450+93.23 See Sh. No. 73	Contractor Construction Staking Lump Sum L.S.
		Br. No. 35-56-128.97 (171) 450+93.23 See Sh. No. 59	Foundation Stabilization (Set Price) 1 Cu. Yd.
	SIDEWALK AND RETAINING WALL CONCRETE STEEL		MobilizationLump SumL.S.Mobilization (DBE)Lump SumL.S.
ALIGNMENT STATION to STATION SIDE WIDTH (FT) CONSTRUCTION (4") SIDEWALK RAMP (SQ YD) ALIGNMENT ST	ATION to STATION (GRADE 4.0)(AE) (GRADE 60) (CU. YD.) (LB.)		Removal of Existing StructuresLump SumL.S.Maintenance and Restoration of Haul Roads (Set Price)Lump SumL.S.Transies (Operators) (Opt Drive)Transies (Operators) (Opt Drive)Transies (Operators) (Opt Drive)
	3+80.00 to 50+90.00 24.7 1750		Towing (Courtesy)(Set Price)1EachConcrete for Seal Course (Set Price)1Cu. Yd.
TOTAL 20.8 7.0	TOTAL 24.7 1750		Clearing and GrubbingLump SumL.S.Curing EnvironmentLump SumL.S.
GUARDRAIL, STEEL PLATE (MGS) GUARD	RAIL, REMOVAL OF STEEL PLATE		Common Excavation (Urb)11161Cu. Yd.Common Excavation (Contractor Furnished)477Cu. Yd.
ALIGNMENT STATION to STATION SIDE (MGS-MSKT) (MGS-SOFTSTOP) (BULLNOSE) PATE (LIN ET)		REMOVAL OF EXISTING STRUCTURES *	Rock Excavation1540Cu. Yd.Water (Grading)(Set Price)1MGal
SB I-35 447+57.66 to 450+32.66 LT 1 1 0 275.00	STATION to STATION SIDE LENGTH (LIN. FT.)	MENT STATION to STATION SIDE STRUCTURE COMMENTS	Salvaged Topsoil8245Sq. Yd.Compaction of Earthwork (Type A)(MR-5-5)3026Cu. Yd.
I-35 448+65.29 to 450+32.66 CL I 15:1 279.00 I-35	445+17.16 to 451+42.78 RT 626.37 447+03.32 to 453+28.55 LT 626.93 454+07.76 to 455+28.55 LT 626.93	35 450+93.23 CL Br. No. 35-56-128.98 (010) 35 448+61.51 to 449+01.19 LT 52.62' Fence	Compaction of Earthwork (Type AA)(MR-0-5)1438Cu. Yd.Compaction of Earthwork (Type AA)(MR-5-5)383Cu. Yd.
NB I-35 445+82.66 to 450+32.66 RT 1 1 50:1 450.00 I-35 I-35 451+53.79 to 456+45.73 CL 1 15:1 928.00 I-35	454+27.76 to 456+00.98 CL 357.29 I-3 TOTAL 1610.59 I-3	35 439+00.00 CL 18" CRP (ACSP)	Concrete (Grade 4.0)(AE)24.7Cu. Yd.Reinforcing Steel (Grade 60)(Epoxy Coated)1750Lbs.Cross Road Pipe (18")(ACSP)145Lin. Ft.
TOTALS 3 3 2 2169.50	I-3	35 441+35.00 CL 18" CRP (ACSP)	End Section (15") 1 Each
	OPE DRAIN (STONE)	In St. 48+34.28 to 49+02.31 LT 66.98' Fence	End Section (18")1EachEnd Section (24")1Each
ALIGNMENT STATION TO STATION S	E QUANTITY DEPTH WIDTH VOLUME Lincol (LIN. FT.) (LIN. FT.) (LIN. FT.) (CU. YD.) Lincol	In St. 50+84.46 to 51+39.78 LT 66.98' Fence	Guardrail, Steel Plate (MGS)2169.50Lin. Ft.Guardrail, Steel Plate (Temporary)225.00Lin. Ft.
ALIGNMENT STATION to STATION SIDE (MGS-MSRT) (MGS-SOFTSTOP) RATE (LIN. FT.) Image: Alignment of the state of the stat		In St. 51+00.97 RT Curb Inlet	Guardrail End Terminal (MGS-MSKT) Alt. 14EachGuardrail End Terminal (MGS-SOFTSTOP) Alt. 24Each
NB I-35 451+42.78 to 454+16.15 RT 1 1 0 225.00 Image: MB I-35 TOTALS 1 1 225.00 TOTALS	25.0	or Information Only. The listing shown may not be complete. Payment for ructures or obstructions not listed but whose removal is required by the pastruction as determined by the Engineer, shall not be paid for directly but	Guardrail End Terminal (Bullnose)2EachGuardrail, Removal of Steel Plate1610.50Lin. Ft.
	→ 23.0 Column C	nstruction as determined by the Engineer, shall not be paid for directly but all be included in the bid item "Removal of Existing Structures."	Inlet (Manhole)(Special)1EachInlet (Type I Ditch)1Each
TEMPORARY DRAINAGE STRUCTURES		SLOPE PROTECTION (AGGREGATE)(D50=6")	Inlet (Type II Ditch)1EachInlet (Type 22 Curb)3Each
STATION SIDE SIZE TYPE LENGTH LENGTH (LIN. FT.) (LIN. FT.) (LIN. FT.) REMARKS	ALIGNMENT STATION to STATION	D50=6" 10" BEDDING FOR GEOTEXTILE	Inlet (Type 22 Curb)(Radius)1EachManhole (Reinforced Concrete)1Each
439+00.00 CL 18" CRP (ACSP) 80 Place in Phase 1, Remov	e in Phase 5	(CU. YD.) (CU. YD.) (SQ. YD.)	Curb and Gutter, Combined (AE)(Special)522Lin. Ft.Slotted Drain (18")155Lin. Ft.
439+80.00CL18"Slotted Drain155Place in Phase 1, Remov441+35.00CL18"CRP (ACSP)65Place in Phase 1, Remov	e in Phase 5 E in Phase 5 Lincoln St. 48+54.00 to 48+66.00		Slope Protection (Aggregate)7Cu. Yd.Bedding for Slope Protection9Cu. Yd.
TOTAL 145 155		TOTAL 7 9 32	Geotextile Fabric32Sq. Yd.Slope Drain (Stone)25Lin. Ft.
CONCRETE PAVEMENT QUANTITIES		COMBINED CURB & GUTTER	Flume Inlet (Concrete)2EachStorm Sewer (15")19Lin. Ft.
CONCRETE CONCRETE PAVEMENT(12" PAVEMENT(12"	ENT TREATED ASPHALT TREATED PAVEMENT	ALIGNMENT STATION to STATION SIDE (AE)(SPECIAL) COMMENTS	Storm Sewer (18") 507 Lin. Ft. Storm Sewer (24") 109 Lin. Ft.
	ASE (ALT. 1) (SQ YD) BASE (ALT. 2) (SQ YD) BASE (ALT. 2) (SQ YD) BASE (ALT. 2) (ROCK) (TONS)	RKS Incoln St. 48+57.50 to 51+20.18 LT 252.9	Sidewalk Construction (4")(AE)21Sq. Yd.Sidewalk Ramp7Sq. Yd.
I-35 448+22.00 to 449+99.10 177.1 472.3 314.8 865.8	965 9 965 9 ND	Lincoln St. 48+57.50 to 51+21.51 RT 268.6	Temporary Surfacing Material (HMA) (Set Price)1Ton4" Pipe Underdrains (Type GK)112Lin. Ft.
I-35448+22.00 to 449+99.10177.1472.3314.8865.8I-35451+87.59 to 452+89.00101.4270.4180.3495.7	865.8 865.8 210.5 SB		Guideposts2EachImpact Attenuator (TL-3)(Temporary)4Each
I-35 451+87.59 to 452+89.00 101.4 270.4 180.3 495.7	495.7 495.7 423.3 NB 495.7 495.7 SB		Replacement Modules (Impact Attenuator)10EachConcrete Safety Barrier (Type F3)(Temporary)2250Lin. Ft.
TOTAL 1485.4 990.2 2723.0	2723.0 2723.0 633.8	SALVAGED TOPSOIL	Mowing0.3PMPSConcrete Pavement (12" Uniform)(AE)(NRDJ)1485Sq. Yd.
• Computed at the rate of 156 pcf <i>#</i> Pavement Edge Wedge Quantity shown are for Guardrail Pads. See Sh. 38		ALIGNMENT STATION to STATION SIDE (SQ. YD.)	Concrete Pavement (12" Variable)(AE)(Plain)990Sq. Yd.Concrete Pavement (12" Uniform)(AE)(Br App)592Sq. Yd.
APPROACH SLAB PAVEMENT QUANTITIES CONCRETE		I-35 STA 438+25.12 to STA 443+13.37 MED 1118.4 I-35 STA 445+53.00 to STA 450+76.48 LT 970.9	Bridge Approach Slab Footings94.8Cu. Yd.Pavement Edge Wedge (Rock)634Ton
_ ALIGNMENT STATION to STATION WIDTH LENGTH UNIFORM)(AE) SLAB FOOTING (AB-3)(6")	SE CEMENT TREATED ASPHALT TREATED BASE (ALT. 1) BASE (ALT. 2) REMARK	I-35 STA 445+79.93 to STA 450+76.48 MED 747.6 I-35 STA 444+27.00 to STA 450+76.48 RT 1553.5	Water (Earthwork Compaction) (Set Price)1MGalAggregate Base (AB-3)(6")3374Sq. Yd.
ALIGNMENTSTATION to STATIONWIDTHLENGTHONTFORM((AE))SLAB FOOTING(AB-3)(0)(FT)(FT)(FT)(BR APP)(CU. YD.)(SQ YD)	(SQ YD) (SQ YD) (SQ YD)	I-35 STA 451+10.00 to STA 455+91.13 LT 1093.0 I-35 STA 451+10.00 to STA 456+07.89 MED 434.8	Water (Aggregate Base) (Set Price)1MGalCement Treated Base (Alt. 1)3374Sq. Yd.
I-35 449+99.10 to 450+32.10 #40/41 33 148.1 23.7 162.8 I-35 449+99.10 to 450+32.10 #40/41 33 148.1 23.7 162.8	162.8 162.8 NB 162.8 162.8 SB	I-35 STA 451+10.00 to STA 455+27.93 RT 558.3 I-35 STA 444+27.00 to STA 450+76.48 MED 1768.6	Asphalt Treated Base (Alt. 2)3374Sq. Yd.Fence (Chain Link)(4'-0")389Lin. Ft.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	162.8 162.8 SB 162.8 162.8 NB 162.8 162.8 SB		Posts (Corner) (Chain Link)2EachPosts (End) (Chain Link)9Each
			Federally Non-Participating FOR INLETS, MANHOLES, AND STORM SEWER QUANTITIES, SEE SH. NO.36
* Note: 40' Width for 20'; 41' width for 13' TOTAL 592.4 94.8 651.2	651.2 651.2		FOR SURFACING QUANTITIES, SEE SH. NO. 95 FOR TEMPORARY EROSION CONTROL QUANTITIES, SEE SH. NO. 96
EARTHWORK		ALIGNMENT STATION TO STATION SIDE MILES I-35 Sta. 448+22.00 - Sta. 452+89.00 LT 0.1	FOR SEEDING QUANTITIES, SEE SH. NO. 105 FOR SIGNING QUANTITIES, SEE SH. NO.111 - 114 FOR PAVEMENT MARKING QUANTITIES, SEE SH. NO. 122
EXCAVATION COMPACTION PHASE ALIGNMENT STATION to STATION COMMON PAVEMENT REMOVAL CONTR. TYPE AA	THROUGH CUTS	* EMBANKMENT (CU.YDS.) PLACE. I-35 Sta. 448+22.00 - Sta. 452+89.00 RT 0.1 SELECT I-35 Sta. 448+22.00 - Sta. 452+89.00 MED 0.1	FOR PAVEMENT MARKING QUANTITIES, SEE SH. NO. 123 FOR TRAFFIC CONTROL QUANTITIES, SEE SH. NO. 173 FOR TEMPORARY CONCRETE SAFETY BARRIER AND TEMPORARY IMPACT ATTENUATOR
PHASE ALIGNMENT STATION to STATION COMMON REMOVALO FURN. MR-5-5 MR-0-5 MR-5-5 CU.YDS. VMF CU.YDS. CU.Y	COMM. TYPE AA TYPE AA TYPE A IN	NITIAL SETTLE- SOIL ONSOL. MENT CU.YDS.	QUANTITIES, SEE SH. NO. 174
1 Crossovers 1 & 2 11+50.00 to 16+00.00 241 0.81 39 1 Crossover 4 11+00.00 to 19+00.00 161 0.81 110	447 447	UNDERDRAIN PIPE (4") •	2 1-14-08 Rem. Drainage Structure summary S.W.K. J.O.B. 1 1-9-91 Detailed on CADD R.J.S J.O.B. NO DATE REVISIONS BY ARP'D
2 I-35 (SB) 445+50.00 to 456+50.00 4357 0.81 279 1.00 82 3 Crossover 3 11+00.00 to 18+50.00 174 0.81 84	972 706 266 354 354 354	ALIGNMENT STATION OUTLET LENGTH (FT.) GUIDE POSTS	NO. DATE REVISIONS BY APP'D REMARKS KANSAS DEPARTMENT OF TRANSPORTATION Image: Comparison of the second
3 Crossover 4 (Removal) 11+00.00 to 19+00.00 110 0.81 221 1.00 88 161 4 L-35 (NB) 444+00.00 to 455+50.00 2218 0.81 279 1.00 88 161	1011 732 279	I-35 448+22.00 RT 55.0 1 I-35 448+22.00 LT 55.0 1	
5 Crossovers 1 & 2 (Removal) 11+50.00 to 16+00.00 39 0.81 366 1.00 258 241 5 Crossover 3 (Removal) 11+00.00 to 18+50.00 84 0.81 149 1.00 131 174		I-35 452+89.00 RT 1.0	Cap Existing SUMMARY OF QUANTITIES Cap Existing
S LINCOIN St. 48+02.12 t0 51+50.00 194 0.81 246 1.00 110	442 383 59		RD050
		▲ See General note. ● Capping of Ex. Edge Drains and installation of outlet for an 4" Dine Underdraine.	FHWA APPROVAL 5-28-08 APP'D. James O. Brewer Designed Designed Designed
O To be wasted		for as 4" Pipe Underdrains.	DESIGN CK. DETAIL CK. QUAN.CK. TRACE CK. S.W.K. KDOT Graphics Certified 03-13-2018 Sh. No94
			J//, //v, _J+_



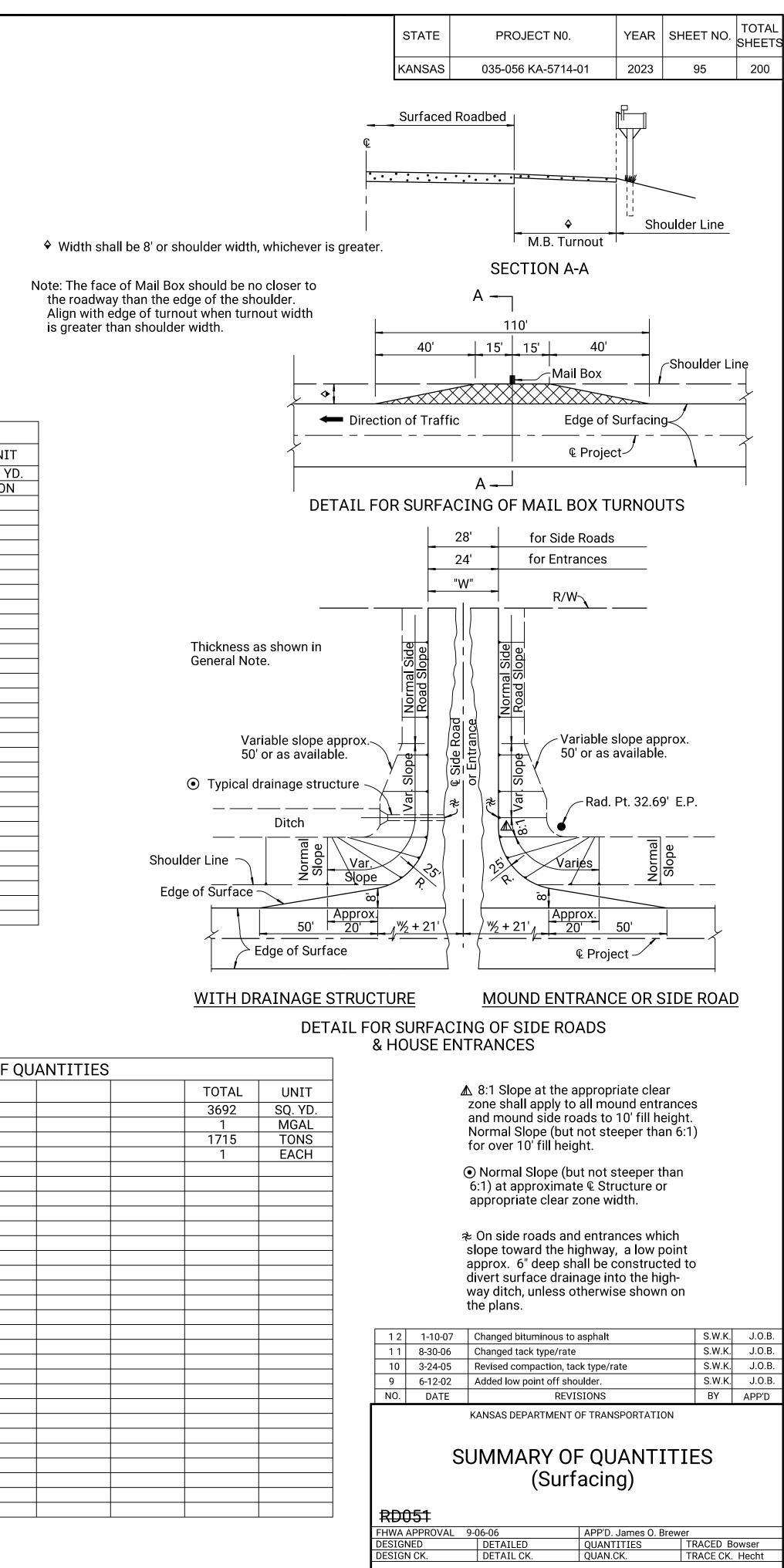
Plotted : 11-06-23 93301\KA571401 user worki ₽ ġ N N

	SUMMA	RY OF QUAN	NTITIES				
ITEM	I-35	LINCOLN ST.		CROSSOVER 3	CROSSOVER 4	TOTAL	UNI
AGGREGATE BASE (AB-3) (6") A-COMMERCIAL GRADE (CLASS A)		754.8	1057.0	924.6	955.4	3691.8	SQ. Y
A-COMMERCIAL GRÀDE (CLASS A)	* 20.5	337.9	502.5	420.7	433.1	1714.7	TON
	1	1	<u>I</u>	1	1 1		1

	RATES OF APPLICATION	
ΝIT	ITEM	
cf	HMA-COMMERCIAL GRADE (CLASS A)	
	t the rote of 145 pot	

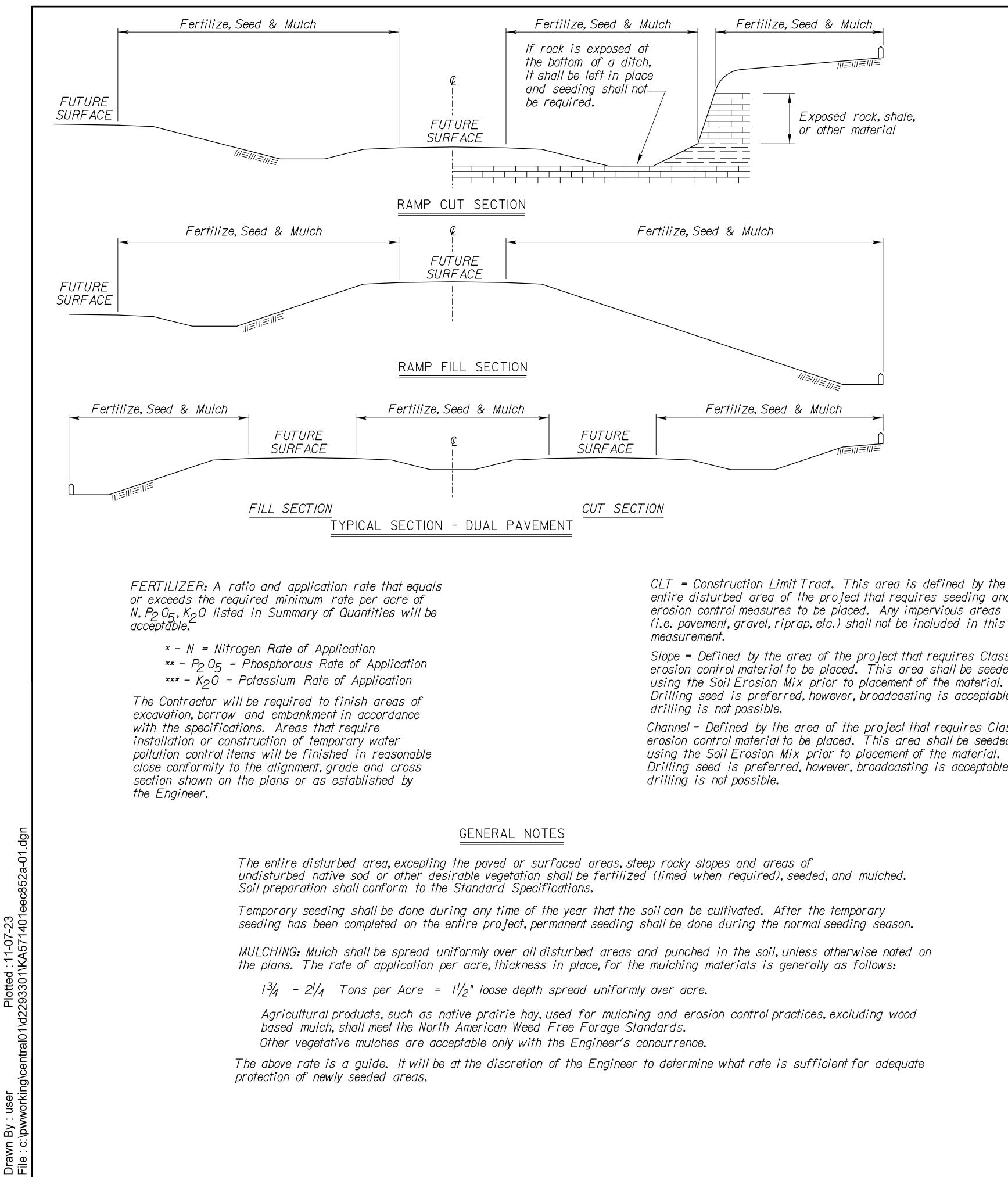
RECAPITULATION OF (
ITEM
AGGREGATE BASE (AB-3) (6")
WATER (AGGREGATE BASE)(SET PRICE) HMA-COMMERCIAL GRADE (CLASS A)
HMA-COMMERCIAL GRADE (CLASS A)
FIELD OFFICE AND LABORATORY (TYPE A)

⁺ Computed at the rate of 145 pcf



KDOT Graphics Certified 07-20-2021

Sh. No. <u>95</u>



Plotted :11-07-23 293301\KA5714016 By user \pwworkin

entire disturbed area of the project that requires seeding and erosion control measures to be placed. Any impervious areas (i.e. pavement, gravel, riprap, etc.) shall not be included in this

Slope = Defined by the area of the project that requires Class erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if

Channel = Defined by the area of the project that requires Class 2 erosion control material to be placed. This area shall be seeded using the Soil Erosion Mix prior to placement of the material. Drilling seed is preferred, however, broadcasting is acceptable if

	SUM	MARY	OF S	EEDING / EROSION CONTROL Q	UANTITIES	
P.L.S. RATI	E/ ACRE	ACF	RES			
CLT	SL/CH	CLT	SL/CH	BID ITEM	QUANTITY	UNIT
150	150	2.45	I . 57	Temporary Fertilizer (15-30-15)	603.50	LB
20		2.45		Temporary Seed (Canada Wildrye)	49.08	LB
45		2.45		Temporary Seed (Grain Oats)	110.43	LB
45		2.45		Temporary Seed (Sterile Wheatgrass)	110.43	LB
	109.9		I . 57	Soil Erosion Mix	172.48	LB
				Erosion Control(Class I, Type C)	7597	SQ YD
				Erosion Control(Class 2, Type E)		SQ YD
				Sediment Removal(Set Price)		CU YD
				Synthetic Sediment Barrier		LF
				Temporary Berm (Set Price)		LF
				Temporary Ditch Check (Rock)		CU YD
				Temporary Inlet Sediment Barrier		EACH
				Temporary Sediment Basin		CU YD
				Temporary Slope Drain		LF
				Temporary Stream Crossing		EACH
				Biodegradable Log (9")		LF
				Biodegradable Log (12")		LF
				Biodegradable Log (20")		LF
				Filter Sock (12")		LF
				Filter Sock (18")		LF
				Geotextile (Erosion Control)		SQ YD
				Silt Fence		LF
				SWPPP Design †		LS
				SWPPP Inspection +	81	EACH
				Water Pollution Control Manager +	81	EACH
900 lbs		2.45		Mulch Tacking Slurry	2208.52	LB
2 tons /	/ acre	2.45		Mulching	7.36	TON
				Water (Erosion Control) (Set Price)		MGAL

NOTE: Projects less than I acre shall be bid as "Seeding" by the lump sum. See Permanent Seeding Summary of Seeding Quantities sheet LA850 for further details.

Geotextile (Erosion Control) shall be removed prior to placement of permanent slope protection.

Regreen and Quick Guard are the approved sterile wheatgrass products.

† If the total disturbed area of the project, not just the seeding area, is I acre or more, then these bid items must be included.

**** List size of material.

The amount of mulch and mulch tacking slurry in the bid quantities is estimated. (Acres of Seeding X 1.5 X 2 Tons/Acre). The estimated quantity includes mulching associated with both temporary and permanent seeding operations. The total mulch and mulch tacking slurry required shall be determined in the field. The bid item for mulching and mulch tacking slurry shall be paid for according to the Standard Specifications.

Quantities for all erosion control items are estimated to give full flexibility for compliance with the NPDES permit. Final quantities will be determined in the field.

\sim	SOIL EROSION MIX	
PLS RATE	NAME	QTY (Ib)
0.5	Blue Grama (Lovington)	0.78
4.5	Buffalograss (Treated)	7.06
45	PerennialRyegrass	70.62
2.6	Prairie Junegrass	4.08
6.3	Side Oats Grama (ElReno)	9.89
45	TallFescue (Endophyte Free)	70.62
6	Western Wheat (Barton)	9.42
109.9	Total (Ib)	172.48

The Soil Erosion Mix is to be placed under the Class I and/or Class 2 erosion control material.

The Soil Erosion Mix consists of the Shoulder Area of the Permanent Seed Mix used on the project.

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	96	200

3	08/03/20	Added Note				MRD	ML	1
2	12/01/17	Revised St	andard		·	MRD	SHS	1
Ι	06/01/17	Revised St	andard			MRD	SHS	1
NO.	DATE		REVIS	IONS	·	BY	APP'D	
_A8		TEMPORA POLLU	RY I		N AND			Granhics Certified
HWA			/2018	APP'D			. Shields	
ESIG			MRD	QUANTITIES		CADD		ľc
ESIG	NCK. SH	IS DETAIL CK.	SHS	QUAN.CK.	(CADD CK.		€
(DO	T Graphics	s Certified	11-07	7-2023		Sh. N	<i>o.</i> 96	

I				
EROSION CO	NTRO	L- CLA	SS I, TY	PE C
STATION TO STATION	SIDE	LENGTH	WIDTH	SQ YARD
48+47.50 TO 48+72.50	RT	N/A	N/A	42
446+05.72 TO 450+70.73	LT	N/A	N/A	3
45I+07.23 TO 455+4I.92	LT	N/A	N/A	651
445+79.93 TO 455+00.00	MED	N/A	N/A	706
444+27.0I TO 450+70.73	RT	N/A	N/A	8
45I+07.23 TO 455+27.93	RT	N/A	N/A	313
455+55.89 TO 458+59.05	MED	N/A	N/A	703
CROSSOVERS 1& 2	MED	N/A	N/A	9
CROSSOVERS 3 & 4	MED	N/A	N/A	1769
TOTAL EROSION CONTROL	(CLASS I,	TYPE C) = 7	597 Sq.Yds	

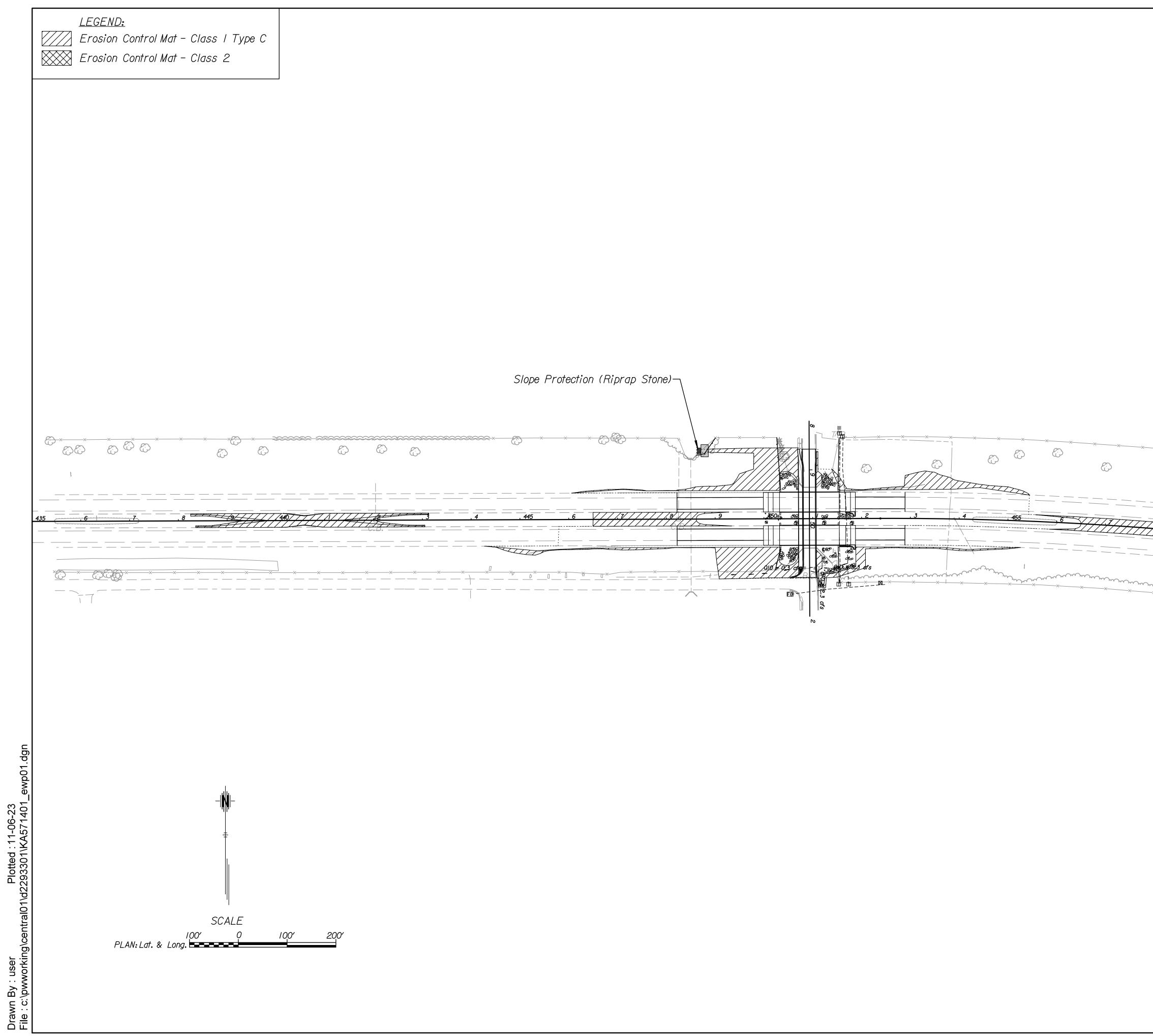
dgn

(PE E
SQ YARD

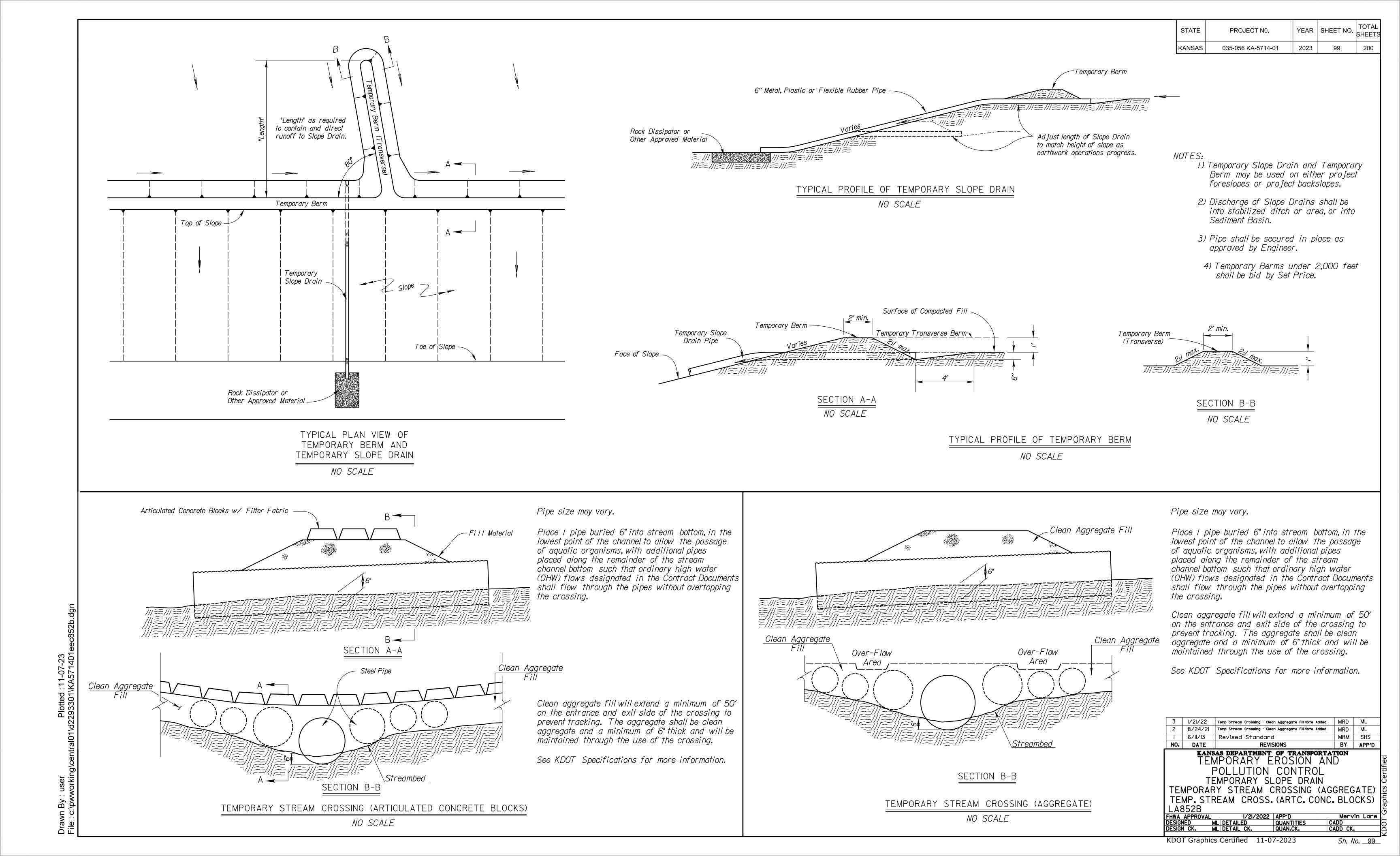
			1	
STATE	PROJECT N0.	YEAR	SHEET NO.	
KANSAS	035-056 KA-5714-01	2023	97	200
NO. DATE	REVISIONS		BY	APP'D
KAN	SAS DEPARTMENT OF	TRANSPO	ORTATION	
		ודםחו		
	EROSION CON SEEDING-SOE	DING		
LA852A-E FHWA APPROVAL	LU I/04/2006 APP'	D	Scott +	I. Shield
FHWA APPROVAL DESIGNED M DESIGN CK. S	I/04/2006 APP' RM DETAILED MRM QUAN SHS DETAIL CK. SHS QUAN	NTITIES N.CK.	Scott H CADD CADD CK	MRN MRN

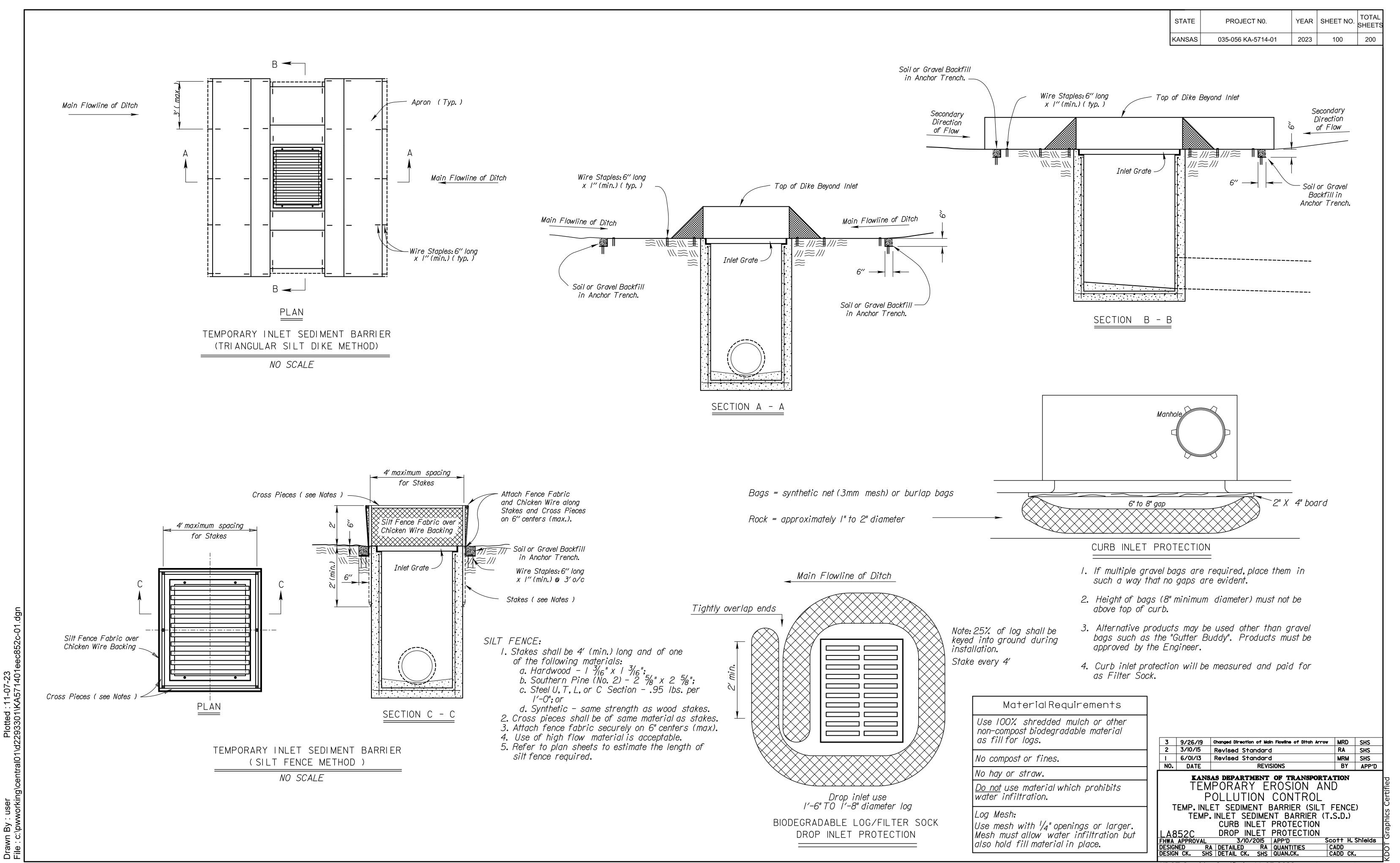
KDOT Graphics Certified 11-07-2023

Sh. No. _97_



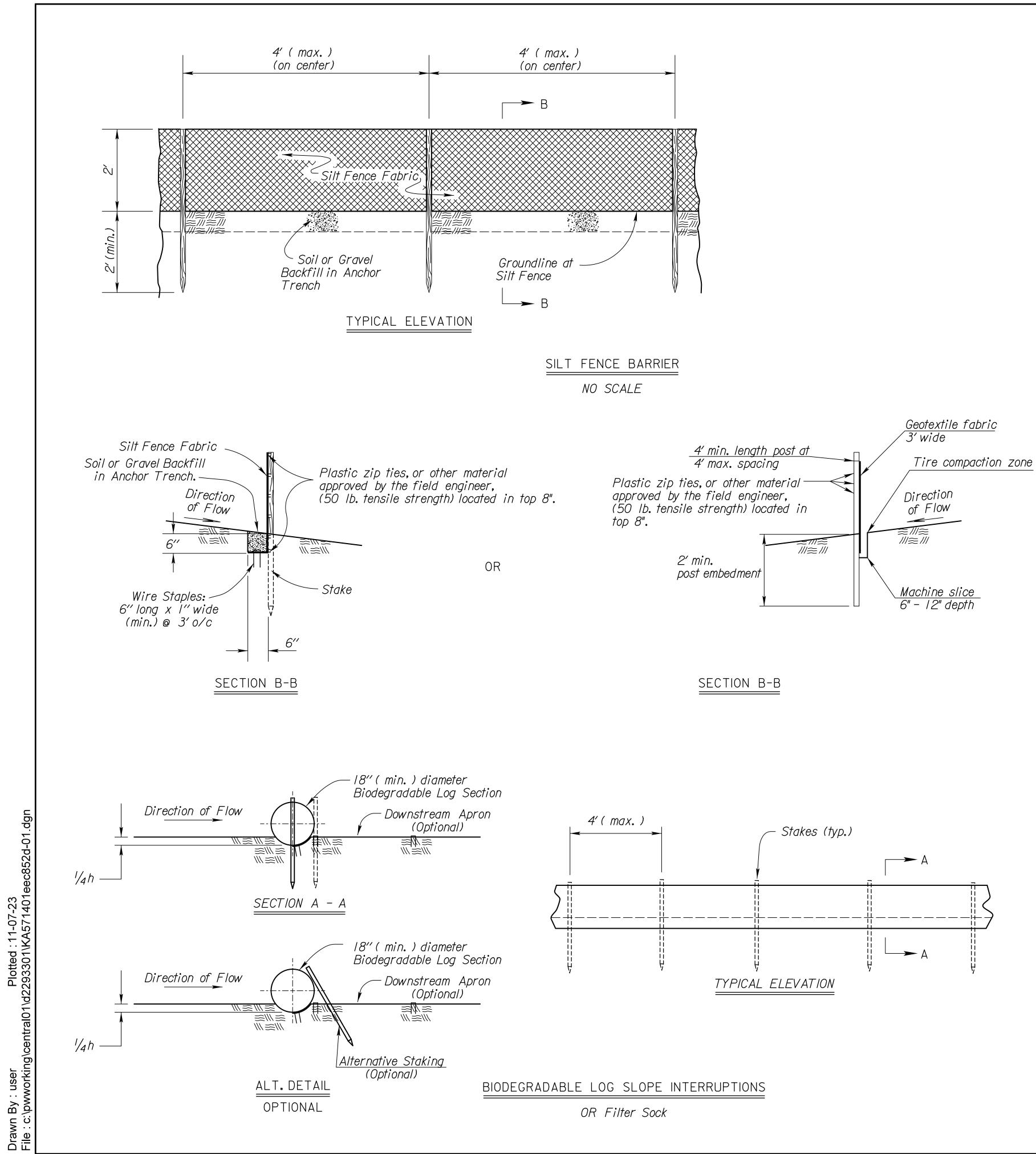
	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	98	200
11	77				
	HAR IIII	7			
		4 77 77 7405			
		6		-7	
					.8
					1
	ΚΑΝΙζΑς	DEDARTMENT OF	Τ₽ΛΝ		ΤΙΟΝ
	KANSAS	DEPARTMENT OF		NSPORTA	TION
	KANSAS	DEPARTMENT OF I-35 PROPOSE	TRAN D FI	JSPORTA NAL	TION
	Kansas	DEPARTMENT OF I-35 PROPOSE EROSION CONTI	TRAN D FI ROL	NSPORTA NAL PLAN	TION
K	ANSAS E STA	DEPARTMENT OF I-35 PROPOSE EROSION CONTI 435+00 TO	TRAN Id Fi Rol Sta.	NSPORTA NAL PLAN 468+0	TION

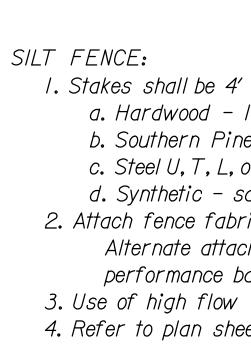




KDOT Graphics Certified 11-07-2023

Sh. No. <u>100</u>





BIODEGRADABLE LOG O

- I. Place biodegradab
- 2. Wood stakes shall
- 3. Refer to plan she 4. Each log or sock
 - minimum of 25%
 - prepared ground
- 5. Length of stakes
- with minimum gro

Biodegradable Log or Filter Sock Slope Interruptions

	PRODUCT					BIODEC	GRADABLE LOG MATERIAL
		9" Sediment Log	12" Sediment Log	20" Sediment Log or 18" Filter Sock		LOW FLOW	HIGH FLOW
					9"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
	1	(f†)	(ft)	(f†)	12"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
	<i>≤4H</i> :/V	40	60	80	18"-20"	Straw/Compost	Excelsior / Wood Chips / Coconut Fiber
Gradient	3H:IV	30	45	60			
Slope G							
S/c							

Deviations should be approved by the Field Engineer.

GENERAL NOTES

- Standards.

	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
INSTALLATION NOTES	KANSAS	035-056 KA-5714-01	2023	101	200
" (min.) long and of one of the following materials: 1 $\frac{3}{16}$ " x 1 $\frac{3}{16}$ "; ne (No. 2) - 2 $\frac{5}{8}$ " x 2 $\frac{5}{8}$ "; or C Section95 Ibs. per 1'-0"; or same strength as wood stakes. wric with 3 zip ties within the top 8" of the fence wric with 3 zip ties within the top 8" of the fence wric with 3 zip ties approved by the Engineer on basis. Material is acceptable. eets to estimate the length of silt fence required.	a				
OR FILTER SOCK					
able logs or filter sock tightly together minimum over all be 2" x 2" (nom.). neets to estimate length of biodegradable log and filt k (except compost filter socks) should be keyed into to 5% of its height. Compost filter socks should be pla nd with no gaps between the sock and soil. s should be 2 times the height of the log at a minima round embedment equal to the height of the log / soo	ter sock the groui iced on a um	required. nd at a			

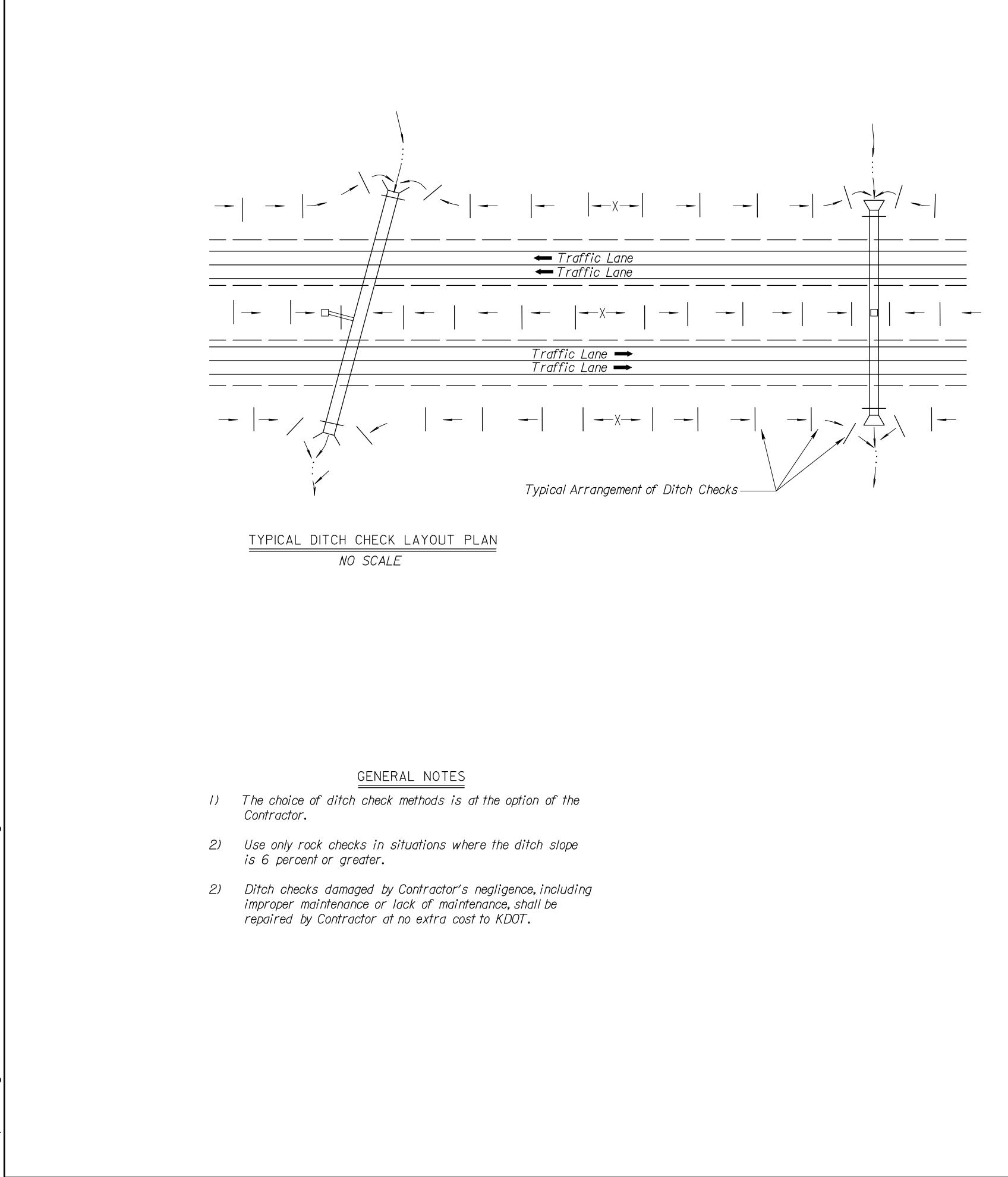
1) Slope interruptions shall be placed along contour lines, with a short section turned upgrade at each end of the barrier.

2) The maximum length of the slope interruptions shall not exceed 250 feet, and the barrier ends need to be staggered.

3) Interruptions damaged by Contractor's negligence, including improper maintenance or lack of maintenance, shall be repaired immediately by Contractor at no additional cost to KDOT.

4) Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage

3	6/28/16	Davida and St					•	SHS	-
2	3/01/15								
	6/01/13		Revised StandardRASHSRevised StandardMRMSHS					1	
NO.	DATE			SIONS			BY	APP'D	
LA8	ΤE	MPORAR MPORAR POLLUTI SLOPE II GRADABLE	Y E ON NTEI	ROS CON RRUP	ION ITROI TIONS	AND -			ZMDTo6fmmhi6m6tiffibit
FHWA DESIGI				APP'D				Shields	
DESIG		IS DETAILED IS DETAIL CK.	RA	QUANTIT QUAN.CK					
KD0	T Graphic	s Certified	11-0	7-2023		S	h. N	<i>o</i> . <u>101</u>	_



Drawn By : user Plotted :11-07-23 File : c:\pwworking\central01\d2293301\KA571401eec852e-01.d

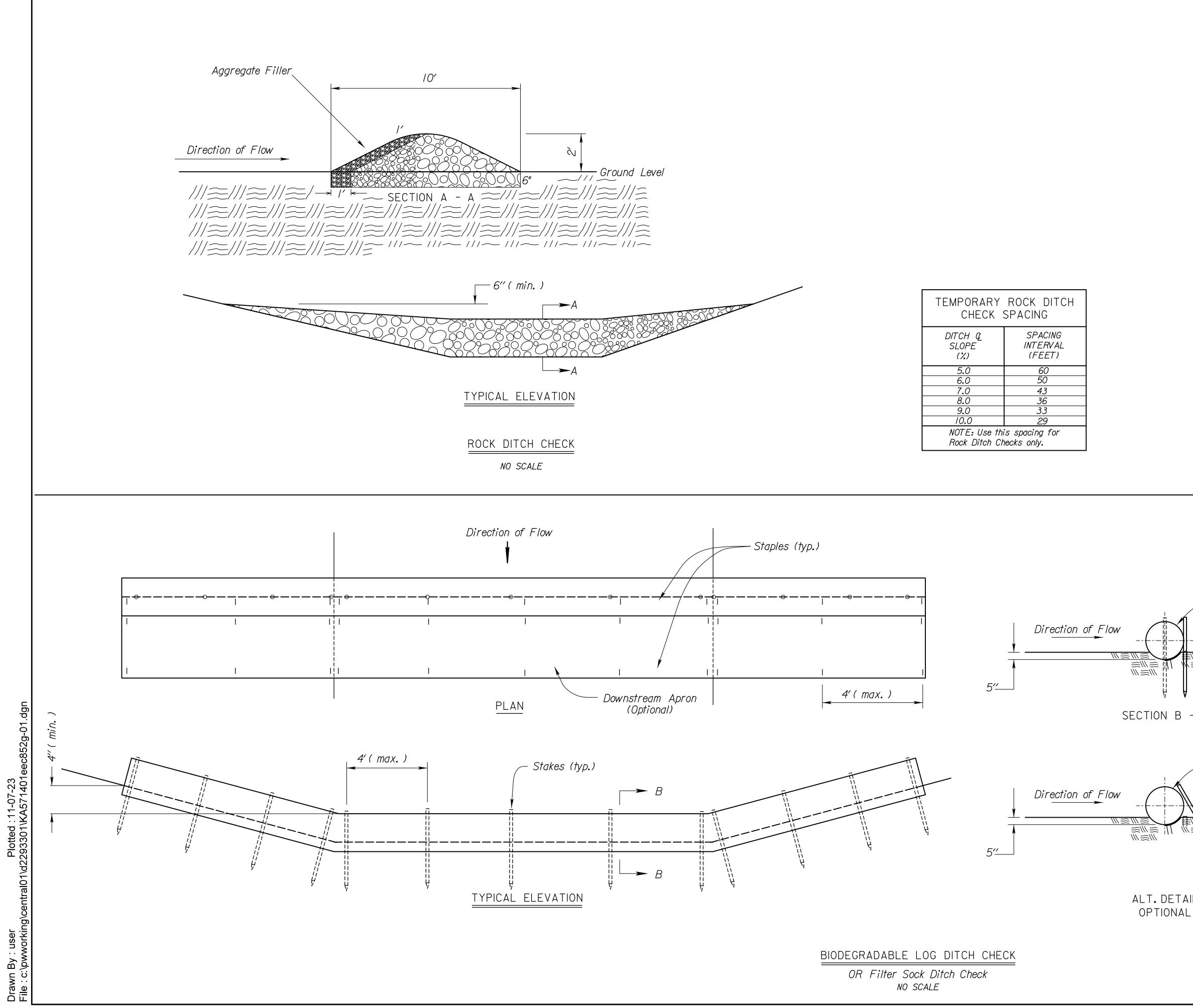
20" BIOLOG CHECK SPACING					
DITCH Q SLOPE (%)	SPACING INTERVAL (FEET)				
1.0	125				
2.0	60				
3.0	40				
4.0	30				
5.0	25				
NOTE: Use this spo except Rock Ditch (

except Rock Ditch Checks.

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	102	200

18" FILTER SOCK CHECK SPACING					
UHEUK .	SPACING				
DITCH Q SLOPE (%)	SPACING INTERVAL (FEET)				
1.0	110				
2.0	55				
3.0	35				
4.0	25				
5.0	20				
NOTE: Use this space except Rock Ditch Cl	•				

3	8/10/16	Revised Sto	Indard			RAA	5	ihs
2	2 6/28/16 Revised Standard					RAA	S	SHS
1	6/01/13	Revised Sta	Indard			MRM	S	ihs
NO.	DATE		REVIS	SIONS		BY	A	P'D
	KANS	AS DEPARTN	IENT	OF TRANSPO	DRTA?	rion		
	TEMPORARY EROSION AND POLLUTION CONTROL							
				001111				
		DITO	Н С	HECKS				
LA8	LA852E							
FHWA	APPROVAL	9/14	/2016	APP'D	Sc	ott	I. Shi	elds
DESIGN		S DETAILED	RAA	QUANTITIES	CA	ADD		RAA
DESIGN	ICK.SH	S DETAIL CK.	SHS	QUAN.CK.	C/	NDD C	<u>K.</u>	SHS
			11 0	7 2022		01		100
ĸDO	Graphic	s Certified	TT-0	/-2023		Sh.	NO	102



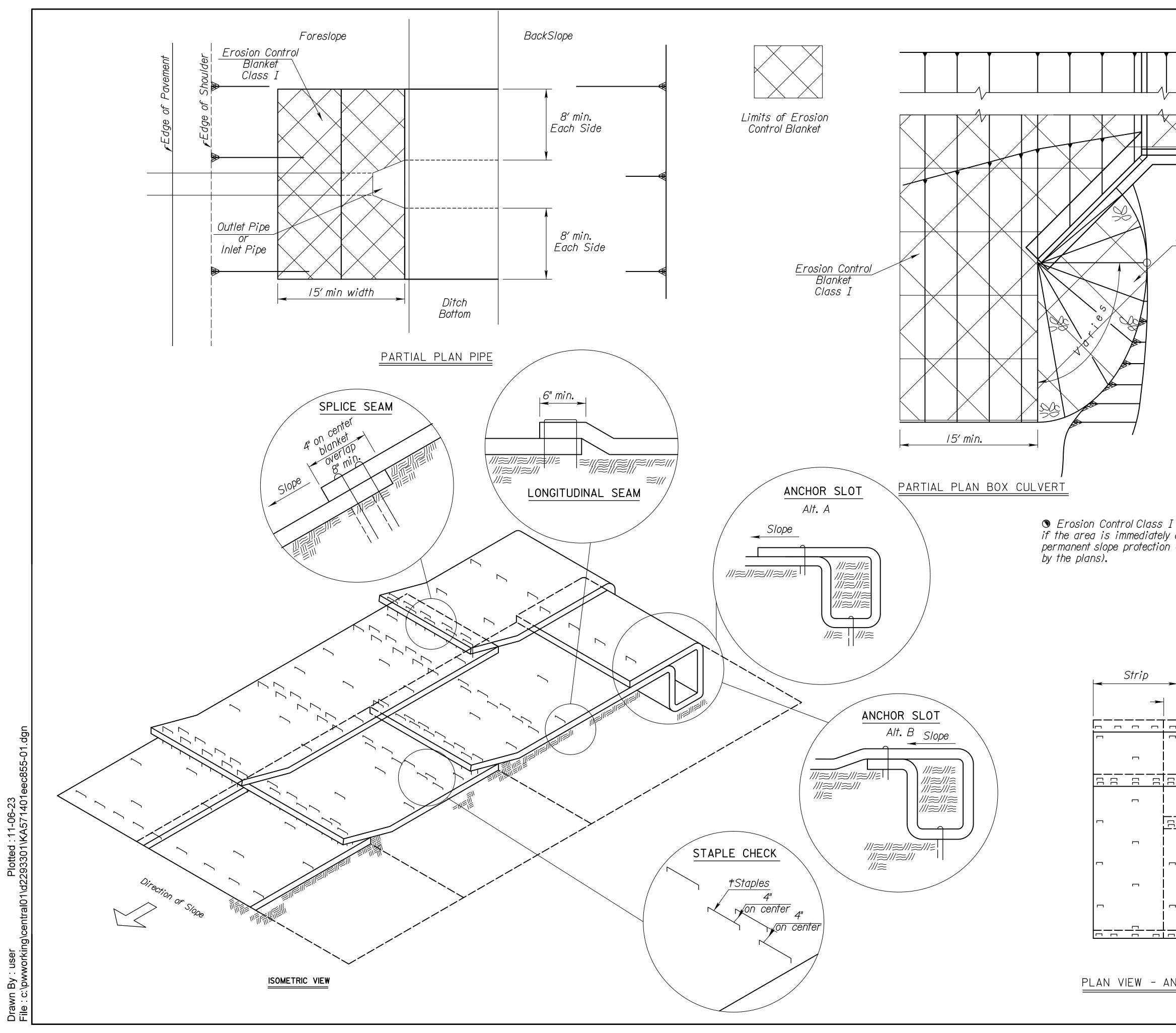
TEMPORARY ROCK DITCH CHECK SPACING					
DITCH Q SLOPE (%)	SPACING INTERVAL (FEET)				
5.0	60				
6.0	50				
7.0	43				
8.0	36				
9.0	33				
10.0	29				
NOTE: Use the Rock Ditch Ct	is spacing for necks only.				

		STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL
		KANSAS	035-056 KA-5714-01	2023	103	200
	ROCK D	ITCH CHECK	NOTES			
1. R	ock shall be clear	n aggregate, D	50–6" and aggregat	e filler	•	
	lace rock in such tch check.	n manner that	water will flow over	^r , not ar	round	
3. C	o not use rock di	tch checks in	clear zone.			
ar ex mi bc Tr	reas. Prior to pla cavated to the di inimum depth of a ackfill and compac	cement of the mensions of t 6"(150mm). A t any over-exc	be reshaped to fill rock, the ditch shall he Rock Ditch Check fter placement of the cavated soil to ditch the bid item Tempo	l be and to e rock, grade.	0 0	
	ggregate excavate e 6" rock, if appro		v be used as an alte ngineer.	ərnate i	to	
th			se of larger aggrego heck when conditions			
be		•	approved, D50–6" roc pregate and the aggi			
di		gate filler wil	n the upstream face I comply with Filter			
			ABLE LOG DITCH			
			to ensure water doe			nd
— 18" (min.) (diameter		ections a minimum			
Biodegradab Downst	le Log Section ream Apron Pptional)	2114 of th	nall be wood or steer e Standard Specific Il be a minimum of	cations.	Length o	of .
			ion Control(Class I) n apron when requi		C) as the	
- B		by the Eng	ream apron is requ ineer. Apron materi et unit price.			
Downst	le Log Section ream Apron Pptional)	should be 25% of its placed on	or sock (except com keyed into the grour s height. Compost fi smooth prepared gro e sock and soil.	nd at a Iter soc	minimum cks should	of 1 be
Alternative S	<u></u>	3 / 9/2 2 8/10/1	6 Revised Standard		MRD RAA	ML SHS
(Optiona All	.,	I I0/21/1 NO. DATE	REVISIONS		RAA BY	SHS APP'D
AIL L		KA1	VSAS DEPARTMENT OF TEMPORARY EROS	SION A	AND	
			POLLUTION CO ROCK DITCH C	HECKS	•	
			EGRADABLE LOG	DITCH	CHECKS	
		LA852G FHWA APPROVA DESIGNED	ML DETAILED DK QUAN	NTITIES	CADD	In Lare RAA
		KDOT Graph	ML DETAIL CK. ML QUAN			. RAA

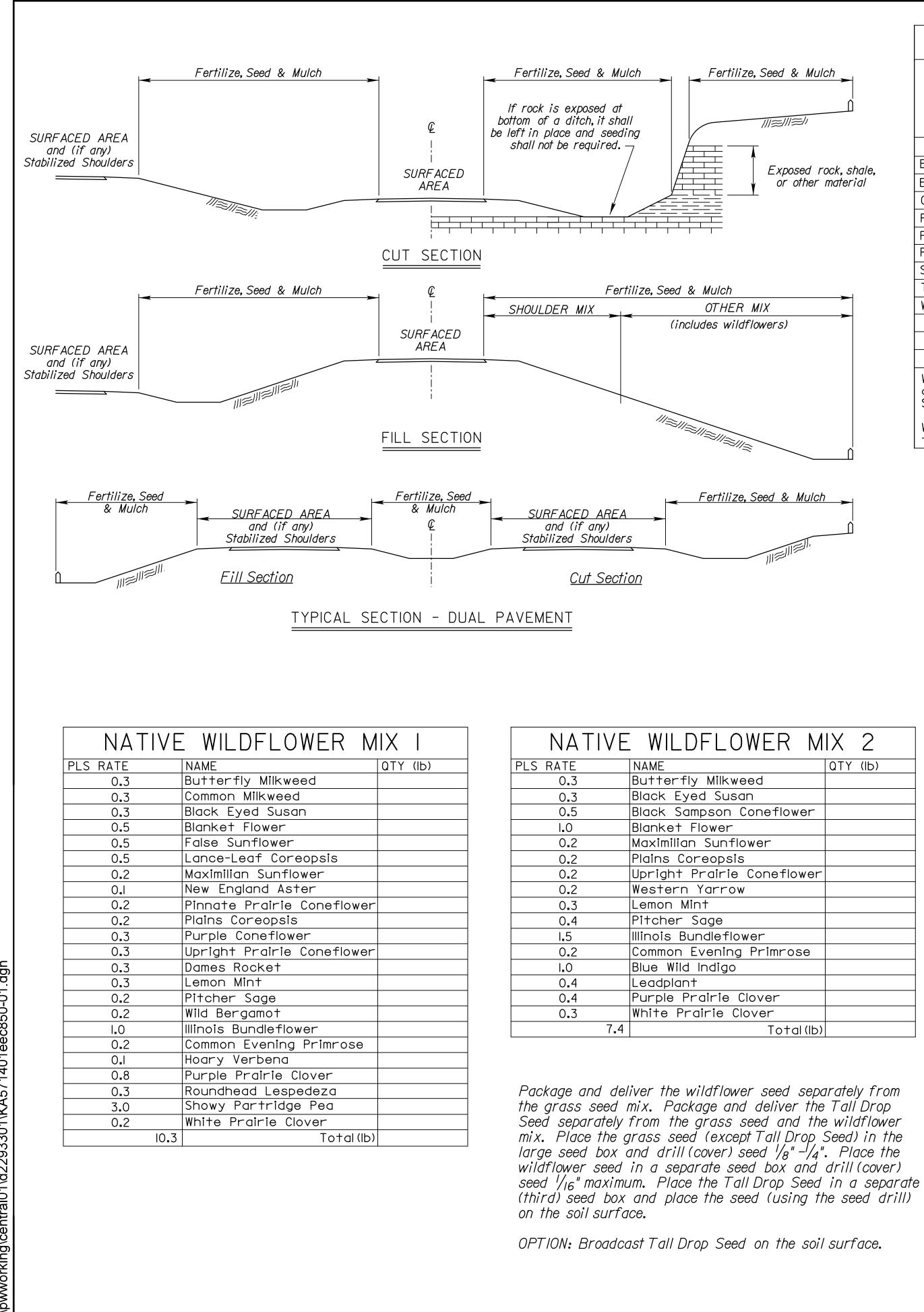
KDOT Graphics Certified 11-07-2023

Sh. No. <u>103</u>

KDOT Graph



			STATE	PROJECT N0.	YEAR	SHEET NC	' SHEET
<u>+</u>			KANSAS	035-056 KA-5714	-01 2023	104	200
€ Box C Symm. Al							
	8' min.						
	sion Control Blanket						
	INSTALL /	TION DET	AILS FOF	R EROSION CO	ONTROL CL	_ASS I	
İ							
<u> </u>	the slope,	beginning at be in contac	t the botto	be laid loosely , m of the slope, e soil, lay blank	. In order i		
	in" at 6 inc deep	the top of t ches apart.	he slope The slow anket anch	of the blanket and anchored i ts should be 6 ored in the bot nd seeded.	'n place with inches wid	h anchors 'e x 6 in	
	overla		er a minii	he edges of the mum of 6 inche n blankets.			
	a mii		-	ces are necess n direction of w			
	turne		minimum	tom edge of th of 4 inches, th art.			е
						, ,	
		CAL ANCHOI e manufactu		or design shall	be as reco	mmended	
I may be omitted covered by (where directed	by the 6. STAP	e manufactu.	rer. †Establis	sh Staples in 2			
covered by	by the 6. STAP Staple NOTE: Agricult and ero meet the	e manufactu LE CHECK: Checks – s sion control North Amer	rer. †Establis shall be 30 practices, rican Week	sh Staples in 2	e hay, used t d based mu Standards.	n center for mulcl ilch, shall	apart. hing
	by the 6. STAP Staple NOTE: Agricult and ero meet the Single p	e manufactu LE CHECK: Checks – s sion control North Amer	rer. †Establis shall be 30 practices, rican Week	sh Staples in 2 D'apart. s native prairie , excluding woo d Free Forage	e hay, used t d based mu Standards.	n center for mulcl ilch, shall	apart. hing
	by the 6. STAP Staple NOTE: Agricult and ero meet the Single p	e manufactu. LE CHECK: Checks – s ion control North Amer post ring and	rer. †Establis shall be 30 practices, rican Week	sh Staples in 2 O' apart. s native prairie excluding woo d Free Forage staple is accept	e hay, used i d based mu Standards. able.	n center for mulcl ilch, shall	apart.
	by the 6. STAP Staple NOTE: Agricult and ero meet the Single p	e manufactu LE CHECK: Checks – s Sion control North Amer Post ring and	rer. †Establis shall be 30 shall be 30 rican Week d shank s 1 shank s 2 9/15/14	sh Staples in 2 D'apart. s native prairie , excluding woo d Free Forage	e hay, used i d based mu Standards. able.	for mulcl Ilch, shall	apart. hing
	by the 6. STAP Staple NOTE: Agriculte and eroor meet the Single p	e manufactu LE CHECK: Checks – s Checks – s North Amer post ring and	Ter. †Establis shall be 30 shall be 30 shall be 30 rican Weed d shank s 3 2/23/15	sh Staples in 2 O' apart. S native prairie excluding wood d Free Forage staple is accepte staple is accepte taple is accepte taple standar Revised Standar Revised Standar	2 rows 4" or 2 hay, used 1 d based mu Standards. able. d	for mulcl Ilch, shall	apart.
	by the 6. STAP Staple NOTE: Agriculte and eroor meet the Single p	e manufactu LE CHECK: Checks – s Checks – s North Amer post ring and	rer. †Establis shall be 30 shall be 30 rs, such as practices, rican Week d shank s 4 3/01/15 3 2/23/15 2 9/15/14 1 9/10/07 10. DATE	sh Staples in 2 O' apart. S native prairie excluding wood d Free Forage staple is accepte staple is accepte taple is accepte taple standar Revised Standar Revised Standar	e hay, used a d based mu Standards. able.	for mulcl Ilch, shall	apart.
	by the 6. STAP Staple NOTE: Agriculte and eroe meet the Single p	e manufactu LE CHECK: Checks – s Checks – s North Amer post ring and	rer. †Establis shall be 30 shall be 30 rs, such as practices, rican Week d shank s 4 3/01/15 3 2/23/15 2 9/15/14 1 9/10/07 10. DATE	sh Staples in 2 O' apart. S native prairie excluding wood d Free Forage staple is accepte staple is accepte taple is accepte staple standar Revised Standar Revised Standar Revised Standar	2 rows 4" or 2 hay, used to d based mu Standards. able. TION DETA TION DETA TION DETA TION DETA	for mulch lich, shall	apart.
	by the 6. STAP Staple NOTE: Agriculte and eroe meet the Single p	e manufactu LE CHECK: Checks – s Son control North Amer Sost ring and	Ter. #Establis shall be 30 shall be 30	sh Staples in 2 D'apart. S native prairie excluding wood d Free Forage staple is accepted taple is accepted taple is accepted standar Revised Standar Revised Standar SLOPE PR	2 rows 4" or 2 hay, used to d based mu Standards. able. TION DETA TION DETA TION DETA TION DETA	for mulch lich, shall	apart.



Plotted :11-07-23 293301\KA5714016 user ₽ ġ le c

mpson Coneflower Flower n Sunflower preopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover		
y Milkweed ed Susan mpson Coneflower Flower n Sunflower oreopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	OFLOWER M	IX 2
ed Susan mpson Coneflower Flower n Sunflower preopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover		QTY (Ib)
ed Susan mpson Coneflower Flower n Sunflower preopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	y Milkweed	
Flower Sunflower preopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	ed Susan	
n Sunflower preopsis Prairie Coneflower Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	mpson Coneflower	
Prairie Coneflower Yarrow Int Sage Undleflower Evening Primrose Indigo t rairie Clover airie Clover	Flower	
Prairie Coneflower Yarrow Int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	n Sunflower	
Yarrow int Sage undleflower Evening Primrose Indigo t rairie Clover airie Clover	preopsis	
int Sage Undleflower Evening Primrose Indigo t rairie Clover airie Clover	Prairie Coneflower	
Sage Indleflower Evening Primrose Indigo t rairie Clover airie Clover	Yarrow	
Indieflower Evening Primrose Indigo t rairie Clover airie Clover	int	
Evening Primrose Indigo t rairie Clover airie Clover	Sage	
Indigo t rairie Clover airie Clover	undleflower	
t rairie Clover airie Clover	Evening Primrose	
rairie Clover airie Clover	Indigo	
airie Clover	+	
	rairie Clover	
Total (Ib)	airie Clover	
	Total (Ib)	

GRASS & WILDFLOW	ER SEEDING SEASONS				
COOL SEASON GRASSES	WARM SEASON GRASSES & WILDFLOWERS				
February 15 thru April 20	November 15 thru June I				
August 15 thru September 30					
SPECIES	SPECIES				
Bluegrasses	Bermuda Grass				
Brome Grasses	Big Bluestem				
Canada Wildrye	Blue Grama				
Fescues	Buffalo Grass				
Prairie Junegrass	Indiangrass				
Ryegrasses	Little Bluestem				
Sterile Wheatgrass	Sand Bluestem				
TallDropseed	Sand Dropseed				
Western Wheatgrass	Sand Lovegrass				
	Side Oats Grama				
	Switchgrass				
	Wildflower Mixes				
When the area to be seeded is lacre or more,if CoolSeason grasses are mixed with Warm Season grasses, seed the area during the Warm Season.					

When the area to be seeded is less than lacre.seed the area any time of the year.

SODDING	SEASONS			
COOL SEASON GRASSES	WARM SEASON GRASSES			
March Ithru Aprill5 September Ithru November 15	May 15 thru September I			
SPECIES	SPECIES			
Bluegrass Sod	Buffalo Grass Sod			
Fescue Sod				
If the soilis workable, the Engineer may allow placement of sod				

between November 15 and March I. If sod is placed during this time, maintain the sod until 20 days after the beginning of the spring sodding season.

				SU	MMAR	Y OF	SEEDING QUANTITIES		
P.L.S. ACRES		ACRES		BID ITEM	QUANTITY	UNIT			
SHLDR	OTHER		SHLDR	OTHER					<u> </u>
							This project is entirely blanketed and seeded with the Soil Erosion Mix to be used as Permanent Seeding. See LA852A for further information.		
									+
									+
							Mulching *		

SHLDR = Seeded with the Shoulder Mix. Typically 15 feet for 2-lane roads and 30 feet for 4-lane roads. Includes outside roadsides, turfed portions of shoulders, and turfed portion of the median.

OTHER = Seeded with the "Other" Mix. Designated as all other turf areas, except the Shoulder. Usually includes a Native Wildflower Mix.

NOTE: Projects less than I acre shall be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated.

Refer to the Standard Specifications, Division 900, Section 904 'Seeding', and Section 907 'Sodding', for the seeding and sodding seasons.

* See LA852A for mulching quantity. The quantity of mulch is estimated (Acres of Seeding X 1.5 X 2 Tons/Acre). The total mulch required shall be determined in the field. The bid item for mulching shall be paid for according to the Standard Specifications.

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	105	200

GENERAL NOTES

The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded and mulched. Soil preparation shall conform to the Standard Specifications except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

If temporary cover has provided stable slopes with no erosion, seed the permanent grasses into the existing cover. If there has been erosion that requires repair prior to seeding, then it may be necessary to regrade the area, resulting in bare ground.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P, O, K, O listed in Summary of Seeding Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per acre, thickness in place, for the mulching material is generally as follows:

 $1\frac{3}{4}$ - $2\frac{1}{4}$ Tons per Acre = $1\frac{1}{2}$ " loose depth spread uniformly over acre. Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards.

Other vegetative mulches are acceptable only with the Engineer's concurrence.

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

2	11/25/20	Updated Seeding /	Sodding Periods Cha	rts MRD	ML
1	08/03/20	Revised Standard	ł	MRD	SHS
NO.	DATE	REV	ISIONS	BY	APP'D
	KANS	AS DEPARTMENT	OF TRANSPORT	ATION	۲ ن ن ن
		PERMANEN	T SEEDING		
	SUM	MARY OF SE	EDING QUAN	TITIES	
LA	850				
FHWA	APPROVAL	05/06/2019	APP'D	Mervin l	
DESIG				CADD	
DESIG	N CK.	DETAIL CK.	QUAN.CK.	CADD CK.	·

Sh. No. 105

SYMBOL KEY

	REMOVE SIGN
\bigcirc	REMOVE POST
	REMOVE FOOTING
\bigcirc	REMOVE SIGN & POST
$\textcircled{\bullet}$	REMOVE POST & FOOTING
	REMOVE SIGN, POST, & FOOTING
\checkmark	MOUNT ON WOOD POST IN CONCRETE FOOTING
\checkmark	MOUNT ON WOOD POST IN SOIL
$\mathbf{\nabla}$	MOUNT ON STEEL BEAM BREAKAWAY POST
	MOUNT ON STEEL U-POST
\bigtriangledown	MOUNT ON PSST POST
\bigtriangledown	MOUNT ON EXISTING POST
$\mathbf{\nabla}$	MOUNT ON VERTICAL SUPPORT
	SHOULDER MOUNTED INSTALLATION
	OFFSET MOUNTED INSTALLATION
	EXISTING SIGN
	EXISTING SIGN TO BE OVERLAID
	SIGN IS NOT PART OF PROJECT
	TYPE 'A' DELINEATOR (RIGID)
	TYPE 'A' DELINEATOR (RIGID) (BK-BK)
F	TYPE 'B' DELINEATOR (RIGID)
	TYPE 'A' DELINEATOR (FLEXIBLE)
°°	TYPE 'A' DELINEATOR (FLEXIBLE) (BK-BK)
F°	TYPE 'B' DELINEATOR (FLEXIBLE)
2	TYPE 2 OBJECT MARKER
<u>3</u>	TYPE 3 OBJECT MARKER
<u>33</u>	TYPE 3 OBJECT MARKER (BK-BK)

Plotted : 11-06-23 :93301\KA571401p; Drawn By : user File : c:\pwworkir

GENERAL NOTES

In order to expedite the completion of the project for traffic service, the signing and delineator work shall be sequenced with any other contract work such that the phases of construction may proceed and be completed at the same time.

New signs erected on the project which are in conflict with existing signing are to be completely covered until the existing signs are removed or the new signing is applicable. The existing signs that are being replaced, removed, or do not follow the current MUTCD signing standards are to be removed when the project is completed or as determined by the Engineer.

The Contractor shall exercise caution at all times when installing sign supports in and around areas where utilities exist, either underground or overhead, and will be held responsible for any damage incurred to the system. The installation of sign supports shall include the excavation, drilling, or driving the support footing and the erection of the sign support. The contractor shall exercise caution when working around any existing signs that are to remain and will be held responsible for any damage to the signs, supports, or footings. The Contractor shall exercise care when working around shrubbery while removing or installing signs or sign supports.

An existing sign post installation shall be plumb and the compaction of the backfill soil shall comply with the specifications after the removal and resetting of a sign, the removal and replacement of a sign, or the installation of a new sign.

The Contractor shall provide mounting bolts that are of a length that does not extend more than a nominal 1 inch beyond the sign post. The Contractor shall not make any field modifications to the mounting bolt prior to or after the sign is installed.

Specific service (LOGO) signs that are to be removed shall have the business logo plaques removed and transported to location determined by KDOT, at which time the plaques become the property of KDOT. The Contractor will be assessed a replacement cost for any damage to a business logo plaque prior to the plaque becoming the property of KDOT.

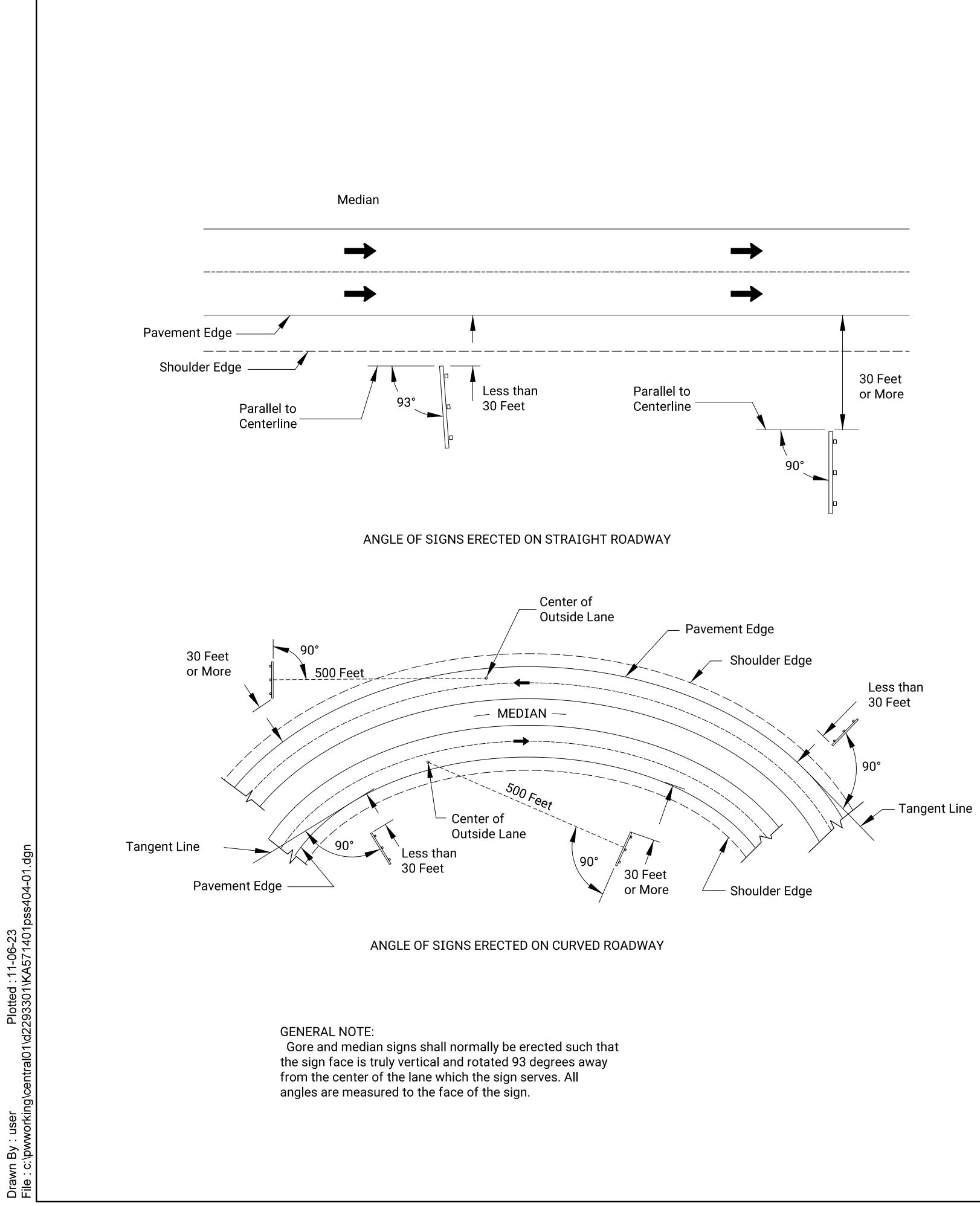
The materials and fabrication for signing and delineation work shall conform to the Standard Specifications for State Road and Bridge Construction (2015 edition) and Special Provisions.

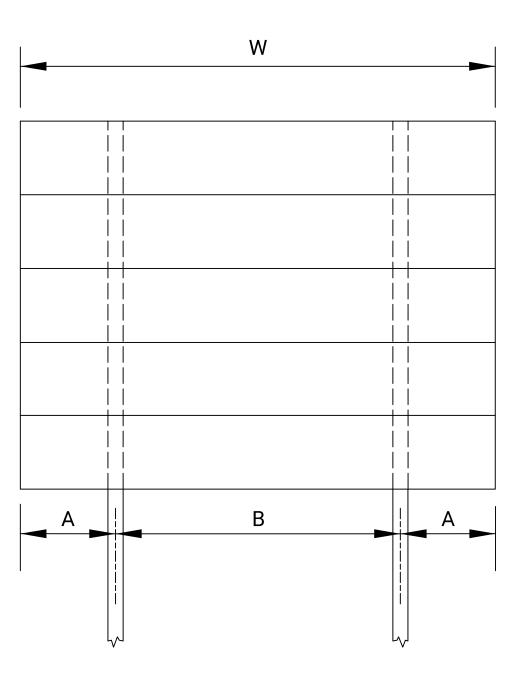
STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	106	200

INDEX OF SHEETS

SIGNING INDEX, SYMBOLS, & GENERAL NOTES POST SPACING & SIGN ANGLE DETAILS **HEIGHT & LATERAL DISTANCE FOR ERECTION** POSITIONING, DESIGN, & MOUNTING OF DELINEATORS POSITIONING, DESIGN, & MOUNTING FOR OBJECT MARKERS (TYPE 2 & 3) PLAN SHEETS (INSTALLATIONS) PLAN SHEETS (REMOVALS) QUANTITIES SHEETS (INSTALLATIONS) QUANTITIES SHEET (DELINEATORS & OBJECT MARKERS) SUMMARY SHEET (INSTALLATIONS & REMOVALS) **RECAPITULATION SHEET** STANDARD STRUCTURAL SIGN SUPPORTS (WOOD & STEEL POSTS) MOUNTING OF REINFORCED PANEL SIGNS ON I-BEAM POSTS DETAILS FOR FLAT SHEET SIGN BLANKS DETAILED SIGN SPECIFICATIONS

2	10/01/19		Changed symb	ols, notes	s, & index	D.D.	G.	E.W.N.
1	7/23/10	Char	nged General No	otes and S	Spec Book Date	D.D.	G.	D.B.
NO.	NO. DATE REVISIONS				BY	,	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION SIGNING SYMBOL KEY GENERAL NOTES AND INDEX 7/1/03								
TE4	TE402 7/1/03							
FHWA AP	PROVAL		10/01/2019	APP'D	Steven A. Buckley			
DESIGNE	D D.D.	G. DETAILED	W.S.B.	QUANTI	TIES	TRACED		
DESIGN C	K. S.A.	.B. DETAIL CK.	D.D.G.	QUAN. C	K.	TRACE CK.		
KDO	T Graphi	cs Certifie	d 12-1	7-20	19	Sh.	No.	106





TWO POST SPACING

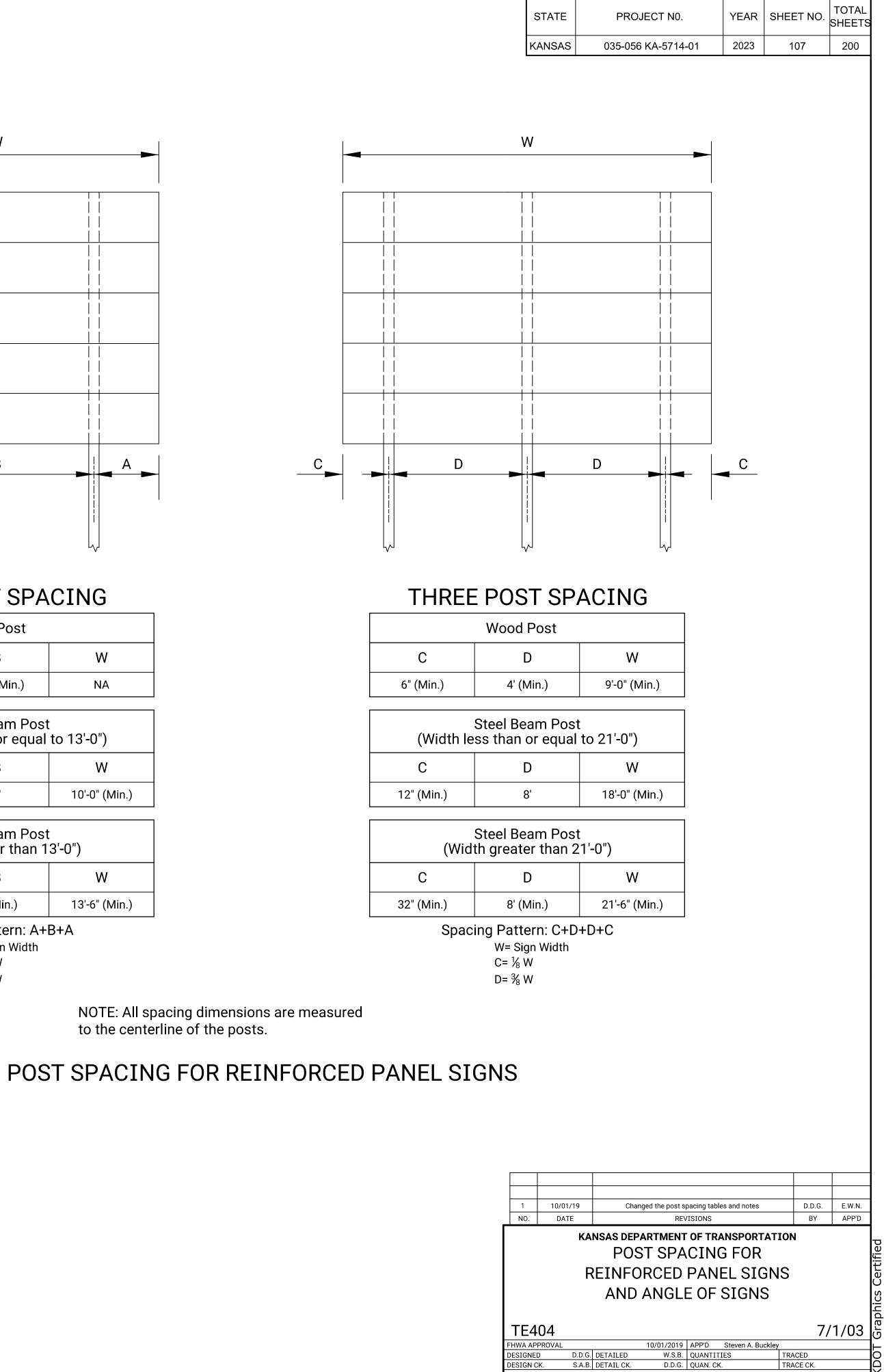
Wood Post				
А	В	W		
6" (Min.)	¾ W (Min.)	NA		

Steel Beam Post (Width less than or equal to 13'-0")				
А	В	W		
12" (Min.)	8'	10'-0" (Min.)		

Steel Beam Post (Width greater than 13'-0")				
A	В	W		
32" (Min.)	8' (Min.)	13'-6" (Min.)		

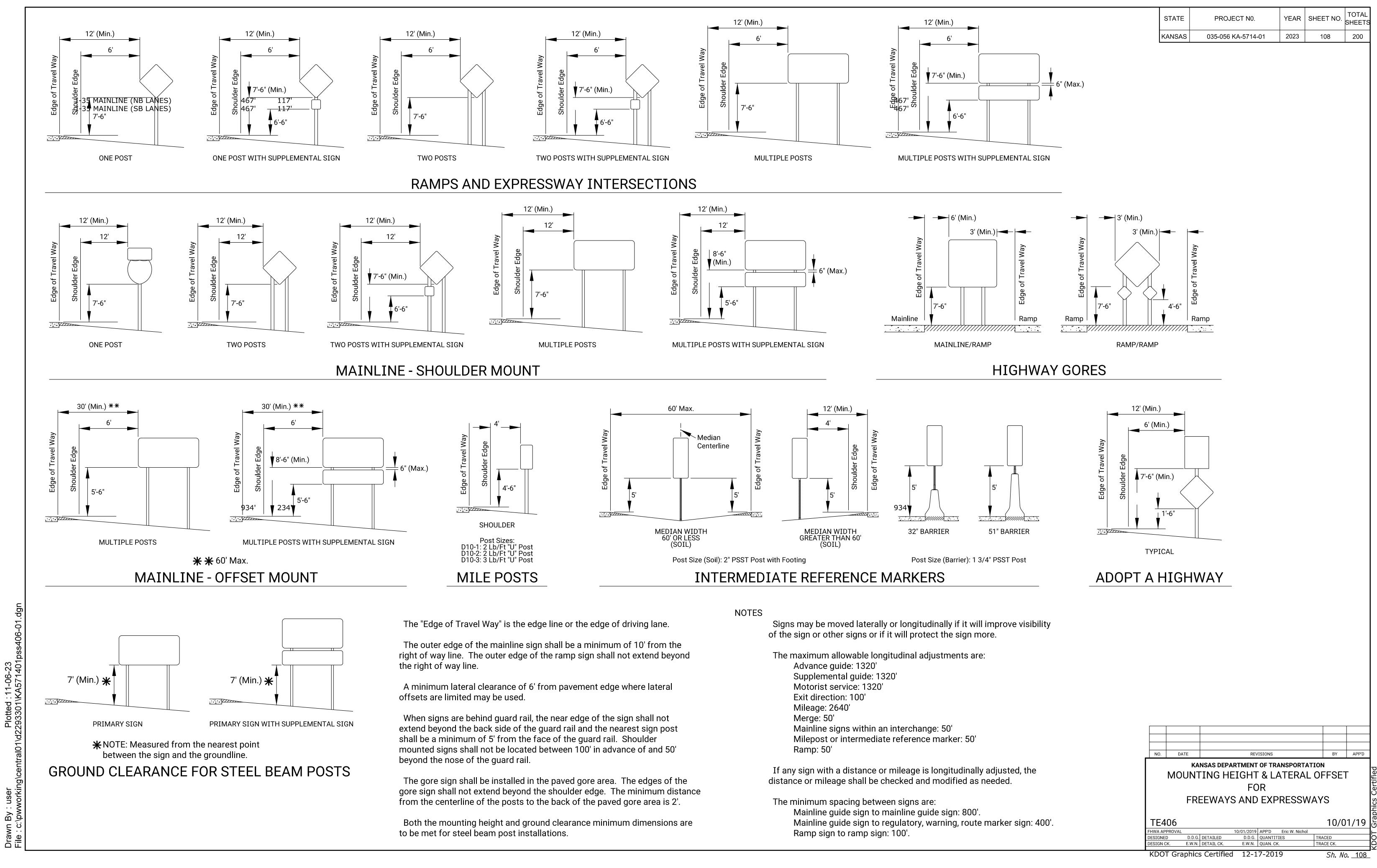
Spacing Pattern: A+B+A W= Sign Width A= ⅓ W B= ⅔ W

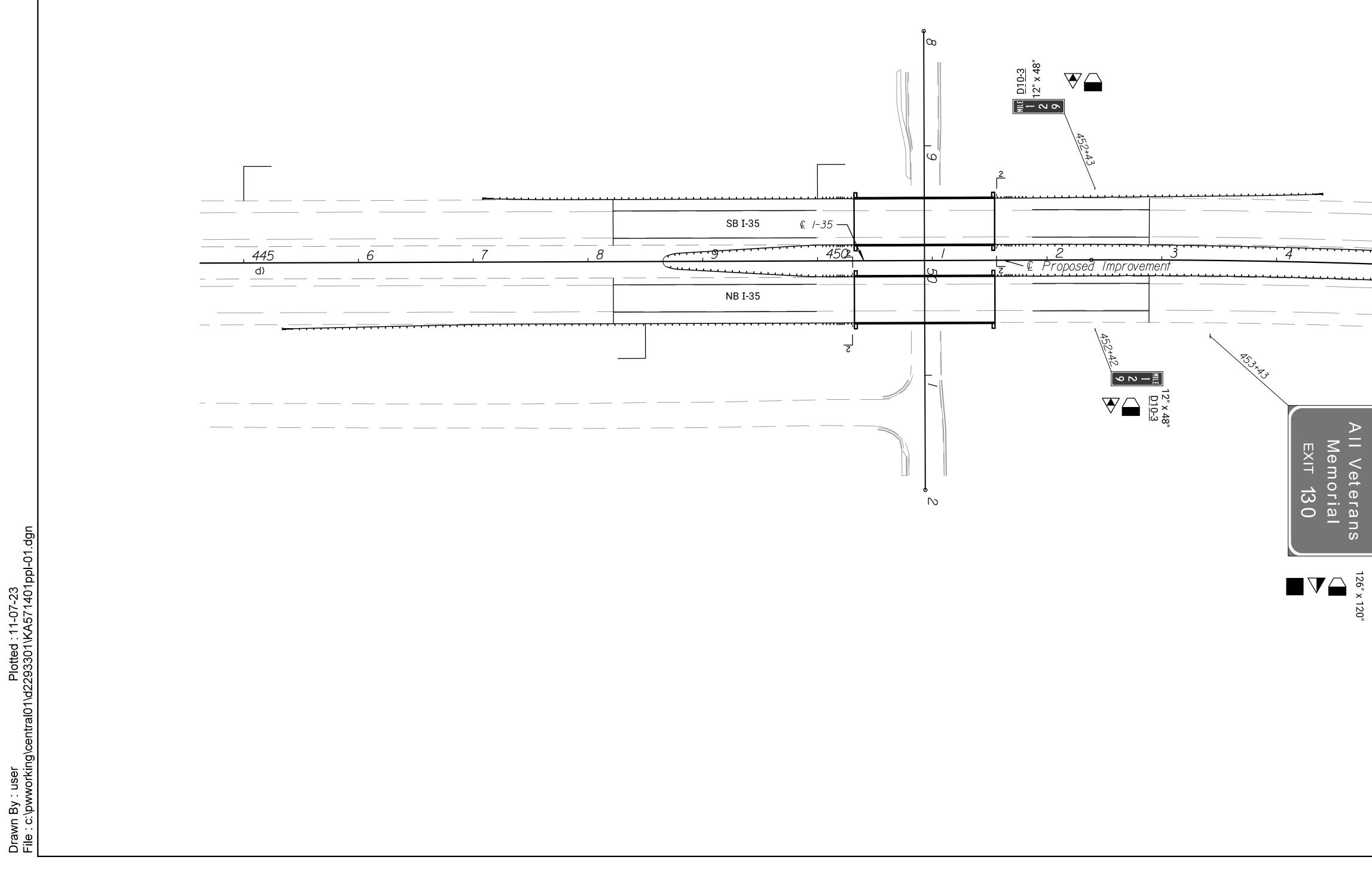
to the centerline of the posts.



KDOT Graphics Certified 12-17-2019

Sh. No. <u>107</u>





	-				
	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	109	200
SCALE	I				
50′ 0 50′ 100′ PLAN: Lat. & Long.	- N -				

455		
	<u> </u>	

Emporia Historic Dist

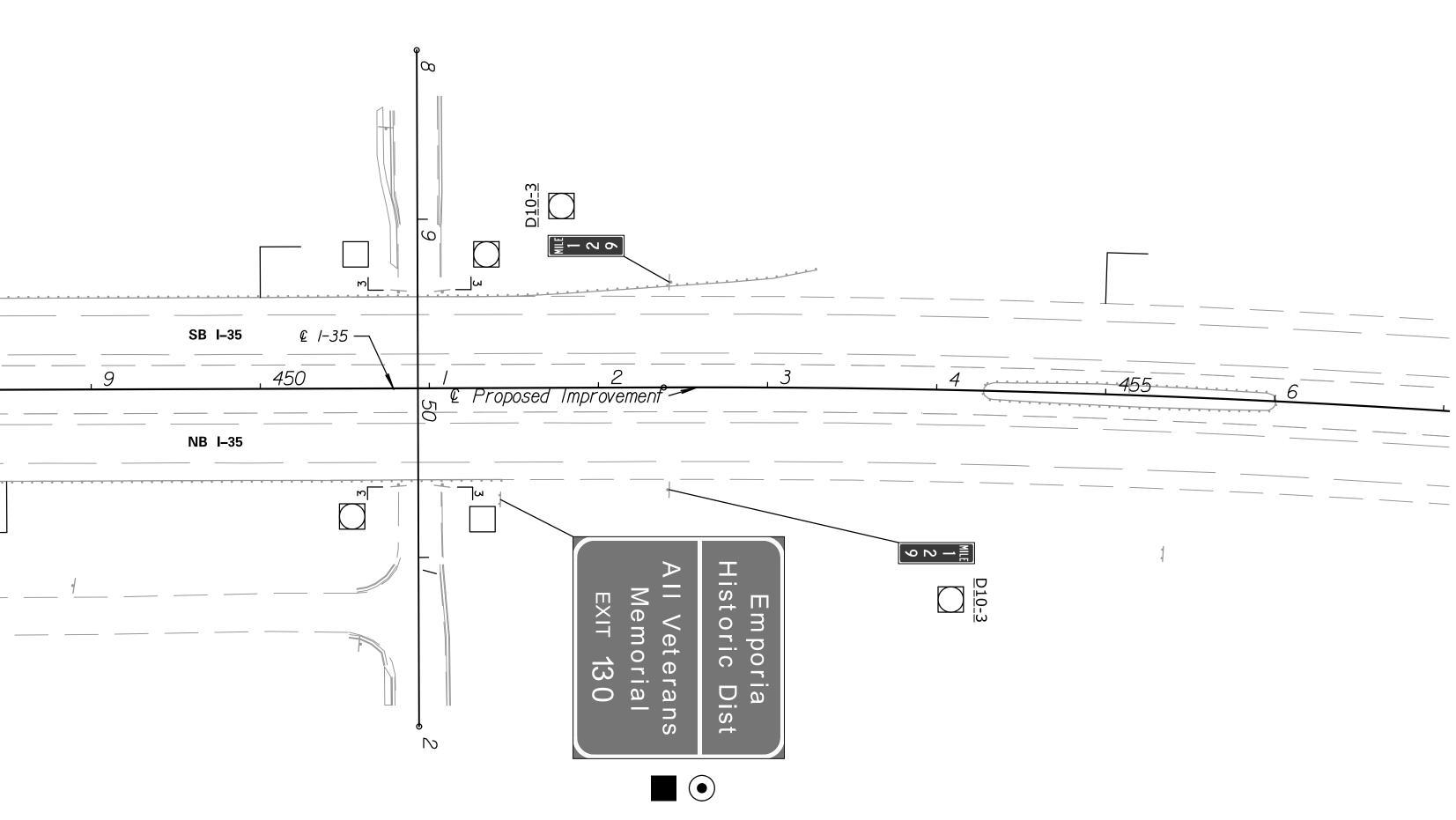
20

ۍ ا KDOT

KANSAS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN

Plotted : 11-07-23	File : c:\pwworking\central01\d2293301\KA571401prm-01.dgn
Drawn By : user	File : c:\pwworking\c



	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	110	200
SCALE 50' 0 50' 100' PLAN: Lat. & Long.					

Gra KDOT

KANSAS DEPARTMENT OF TRANSPORTATION

SIGNING REMOVAL PLAN

			1			1					075		SI	GNS, POS	TS, & FO	OTING	GS TO BE	E INST/	ALLED ON F	PROJE	СТ					[
		ATION ON					PE OF SI BRICATI		4" > WO	X 6" PC	STS STEEL		U-PO	STS			NIZED M POST	ſS		PE			SQUARE ST) POST	STEEL TUBI 'S	Ξ		CC	ONCRET	ΓΕ FOO ⁻	TINGS		SIG	SN ST	RUCTUR	Ε ΤΥΡΕ	RT	IDE
PLAN SHEET NUMBER	PLAN STATION NUMBER	CENTERLINE LOCATION / INSTALL POSITION			SIGN LAYOUT SHEET NUMBER	SHEET	FORCED	lа	FLAT SHEET SIGN	FORCED EL SIGN	ICTURAL NG	5 ALUMINUM	PER FT	PER FT	V6x9 (AFT)	W10	(ALT)	W10x2:		3/4" 9	XET	UUC	2"	2 1/4"	21	ING	WOOD POST			AM POS ⁻ A572 (A		RHEAD FILEVER		ERFLY GE MOUNT	CHMENT T ARM	D TUBE AL SUPPO	MOUNT ABOVE GUIDE
			SIGN DESIGNATION	SIGN SIZE	SIGN	FLAT	REINF	OVERI	FLAT SIGN	REIN PANE	STRUCTI TUBING	3I2.2 BEAN	2 LB F	A36	A572	A36		A36	LSO	F001	BRAC POST	EOOT	BRACKET	POST FOOT	POST	FOOT	18" DIA.	24" DIA.	30" DIA.	24" 3 DIA. D	30" 9IA.	OVERI CANT		BUTTERF BRIDGE N	ATTA(MAST	SINGLE TAPEREI VERTIC/ MOUNT	MOUI
109	452+42	R/S	D10-3	12 x 48		X								1																							
109	452+42	L/S	D10-3	12 x 48		X								1																							
109	453+43	R/O	Existing	126 x 120												2	2																				
																																					<u> </u>
																																					+

	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
к	KANSAS	035-056 KA-5714-01	2023	111	200

SIGNS											
TYPE	NUMBER	SQUARE FEET									
FLAT SHEET	2	8									
REINFORCED PANEL											
OVERLAY											

DELINEA		S				
		IBLE EATOR	RIGID DELINEATOR			
TYPE	TYPE I ANCHOR	TYPE III ANCHOR	"U" POST	BRACKET MOUNT		
TYPE 'A' WHITE			4			
TYPE 'A' YELLOW						
TYPE 'B' WHITE						
TYPE 'B' YELLOW						
TYPE 'A' WHITE (BACK TO BACK)						
TYPE 'A' YELLOW (BACK TO BACK)						

OB	OBJECT MARKER								
	TYPE								
TYPE 2 ("U" POS	T)		4						
TYPE 3 ("U" POS									
	OM3-L								
INFORMATION ONLY	OM3-R								
	OM3-C								
TYPE 3 ("U" POS									

ELAT SHEET SIGN	REINFORCED O PANEL SIGN	STRUCTURAL TUBING	312.25 ALUMINUM BEAM	3 LBS/FT	3 LBS/FT	A36 STEEL	A572 6 STEEL (ALT)	A36 STEEL	A572 71 STEEL (ALT) 71 STEEL (ALT) 71	A36 STEEL	A572 STEEL (ALT) 25X		RFORATI		
FLAT SHEET SIGN	REINFORCED PANEL SIGN	STRUCTURAL TUBING	312.25 ALUMIN BEAM	2 LBS/FT	3 LBS/FT	A36 STEEL	A572 STEEL (ALT)	A36 STEEL		A36 STEEL	A572 STEEL (ALT)	1-3/4"	"2	-1/4"	1/2"
														3	
					2										
								2	2						
					Image: Second	Image: Second	Image: state s	Image: state of the state of		Image:	Image:	Image:	Image: Sector of the sector	Image: Section of the section of th	Image: state in the state in

Drawn By : user Plotted :11-06-23 File : c:\pwworking\central01\d2293301\KA571401pss439-01.dgn

SUMMARY OF QUANTITIES

						POSTS	SAND	ALUMI	INUM I	BEAMS	5						
	4	4" x 6" POST						GALVA	NIZED ST	EEL BEAN	1 POST		PERFORATED SQUARE				
	WC	OD	STEEL		"U" F	POST	We	5x9	W10x12		W10)x22			JBE (PSST)		
	FLAT SHEET SIGN	REINFORCED PANEL SIGN	STRUCTURAL TUBING	3I2.25 ALUMIN BEAM	2 LBS/FT	3 LBS/FT	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	A36 STEEL	A572 STEEL (ALT)	1-3/4"	2"	2-1/4"	2-1/2"	
NUMBER						2			2	2							
FEET						19			51	51							

			POS	T FOO	TING	S AND	BRAC	KETS				
		CONCRE	TE FOOTII	NG (DIA.)			PER	FORATED	SQUARE S	TEEL		
				A572	STEEL		TUBE F	OOTING		BRACKET		
	WOOD	A36 S	STEEL	(A)	LT)							
	18"	24"	30"	24"	30"	1-3/4"	2"	2-1/4"	2-1/2"	1-3/4"	2"	
NUMBER		2		2								
FEET		16		16								

BASE PLATES AND STUB POSTS														
	We	5x9	W10)x12	W10									
	A36 STEEL	A572 STEEL	A36 STEEL	A572 STEEL	A36 STEEL									
BREAKAWAY BASES		(ALT)		(ALT)										
BASE PLATE (TOP)			2	2										
STUB POST WITH BASE PLATE			2	2										
NON-BREAKAWAY BASES														
BASE PLATE														
	•	•	•	•										

SIGN STRUCTURES							
TYPE	NEW	MODIFIED	REMOVE AND RESET	RESET			
OVERHEAD STRUCTURE							
CANTILEVER STRUCTURE							
BUTTERFLY STRUCTURE							
BRIDGE MOUNT ATTACHMENT							
MAST ARM SIGN SUPPORT							
SINGLE TAPERED TUBE SIGN SUPPORT							

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	112	200



REMOVALS					
TYPE	NUMBER				
SIGNS	6				
POSTS	6				
FOOTINGS	2				
SIGN STRUCTURES					

										_
2	10/01/1	0	Povior	d Tables			D.D.	6	E.W.N.	-
2	10/01/1	9	Revise	u Tables				<u>.</u>	E.W.IN.	-
1	7/23/10	0	Revis	ed Tables			D.D.	G	D.B.	
NO.	DATE		REV	ISIONS			BY		APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FOR INSTALLATIONS AND REMOVALS						Graphics Certified				
TE4	39							7/1	/03	
FHWA AP	PROVAL		10/01/2019	APP'D	Steven A. E	Buckley				1
DESIGNED) D	.D.G. DETAILED	K.D.S.	QUANTI	IES	1	RACED]Ċ
DESIGN C	K. S	S.A.B. DETAIL CK.	D.D.G.	QUAN. CI	۲.	T	FRACE CK.			Ē
KD01	T Graph	nics Certifie	d 12-1	7-201	9		Sh.	No.	112	1-7

EXISTING PLAN STATION NUMBER	NEW PLAN STATION NUMBER	SIGN TYPE	SIGN SIZE
451+42	453+43	Existing	126 x 120
+511+2		LAISting	120 × 120

Plotted : 11-06-23 :293301\KA571401p $\overline{}$ 0 Drawn By∶user File∶c:∖pwworkin

SUMMARY OF QUANTITIES

REMOVAL AND RESETTING OF SIGNS ON PROJECT

				1	
EXISTING PLAN STATION NUMBER	NEW PLAN STATION NUMBER	SIGN TYPE	SIGN SIZE		EX S ⁻ N
				-	
]	

EXISTING PLAN STATION NUMBER	NEW PLAN STATION NUMBER	SIGN TYPE	SIGN SIZE

	STATE
NSAS 035-056 KA-5714-01 2023 113 200	KANSAS

EXISTING PLAN STATION NUMBER	NEW PLAN STATION NUMBER	SIGN TYPE	SIGN SIZE

NO	DA	TE		REV	'ISIONS		В	(APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES FOR REMOVAL AND RESETTING OF SIGNS							s Certified			
	445							7/1	/03	Graphics
FHWA DESIG		D.D.G.	DETAILED	7/22/2003 K.D.S.	APP'D QUANTI1	Steven A. Buckley	y TRACED			Ь
DESIG		S.A.B.		D.D.G.	QUAN. CI		TRACE CK			ĬŎ
KD	OT Gra	phics	s Certified	d 07-1	7-201	18	Sh.	No.	113	

BID ITEMS	APPROXIMATE QUANTITIES	UNITS
SIGN (FLAT SHEET) (HIGH PERFORMANCE)	8	SQUARE FOO
SIGN (REINFORCED PANEL) (HIGH PERFORMANCE)		SQUARE FOO
SIGN (OVERLAY) (HIGH PERFORMANCE)		SQUARE FOO
SIGN POST (4" x 6" WOOD) (FLAT SHEET SIGN)		LINEAR FOO
SIGN POST (4" x 6" WOOD) (REINFORCED PANEL SIGN)		LINEAR FOO
SIGN POST (2 LB/FT "U" STEEL)		LINEAR FOO
SIGN POST (3 LB/FT "U" STEEL)	19	LINEAR FOO
SIGN POST (1-3/4" PERFORATED SQUARE STEEL TUBE)		LINEAR FOO
SIGN POST (2" PERFORATED SQUARE STEEL TUBE)		LINEAR FOO
SIGN POST (2-1/4" PERFORATED SQUARE STEEL TUBE)		LINEAR FOO
SIGN POST (2-1/2" PERFORATED SQUARE STEEL TUBE)		LINEAR FOO
SIGN POST (4" X 6" STRUCTURAL STEEL)		LINEAR FOO
SIGN POST (3 I 2.25 ALUMINUM)		LINEAR FOO
	A36 A572(ALT)	
SIGN POST (W6X9 STEEL BEAM)		LINEAR FOO
SIGN POST (W0X9 STEEL BEAM)	51 51	LINEAR FOO
SIGN POST (W10X12 STEEL BEAM) SIGN POST (W10X22 STEEL BEAM)	51 51	LINEAR FOO
SIGN POST (W10X22 STELL BLAW) SIGN POST STUB WITH BREAKAWAY BASE PLATE (W6X9)		EINLARTOO
SIGN POST STUB WITH BREAKAWAY BASE PLATE (W0X9) SIGN POST STUB WITH BREAKAWAY BASE PLATE (W10X12)	2 2	EACH
SIGN POST STUB WITH BREAKAWAT BASE PLATE (W10X12) SIGN POST STUB WITH BREAKAWAY BASE PLATE (W10X22)		EACH
SIGN POST STOB WITH BREAKAWAT BASE PLATE (WT0A22) SIGN POST BREAKAWAY BASE PLATE (W6X9)		EACH
SIGN POST BREAKAWAT BASE PLATE (W0X9) SIGN POST BREAKAWAY BASE PLATE (W10X12)	2 2	EACH
SIGN POST BREAKAWAY BASE PLATE (W10X22)	16 16	EACH
SIGN POST FOOTING (24" Dia. CONCRETE)(STEEL BEAM POST)	16 16	LINEAR FOO
SIGN POST FOOTING (30" Dia. CONCRETE)(STEEL BEAM POST)		LINEAR FOO
SIGN POST FOOTING (18" DIA. CONCRETE)(WOOD POST)		LINEAR FOO
SIGN POST FOOTING (1-3/4" PERFORATED SQUARE STEEL TUBE)		EACH
SIGN POST FOOTING (2" PERFORATED SQUARE STEEL TUBE)		EACH
SIGN POST FOOTING (2-1/4" PERFORATED SQUARE STEEL TUBE)		EACH
SIGN POST FOOTING (2-1/2" PERFORATED SQUARE STEEL TUBE)		EACH
SIGNING OBJECT MARKER (TYPE 2)	4	EACH
SIGNING OBJECT MARKER (TYPE 3)		EACH
SIGNING DELINEATOR (TYPE A)(WHITE RIGID, "U" POST)	4	EACH
SIGNING DELINEATOR (TYPE A)(YELLOW RIGID, "U" POST)		EACH
SIGNING DELINEATOR (TYPE B)(WHITE RIGID, "U" POST)		EACH
SIGNING DELINEATOR (TYPE B)(YELLOW RIGID, "U" POST)		EACH
SIGNING DELINEATOR (TYPE A)(WHITE FLEXIBLE)(TYPE I ANCHOR)		EACH
SIGNING DELINEATOR (TYPE A)(YELLOW FLEXIBLE)(TYPE I ANCHOR)		EACH
SIGNING DELINEATOR (TYPE B)(WHITE FLEXIBLE)(TYPE I ANCHOR)		EACH
SIGNING DELINEATOR (TYPE B)(YELLOW FLEXIBLE)(TYPE I ANCHOR)		EACH
SIGNING DELINEATOR (TYPE A)(WHITE FLEXIBLE)(TYPE 3 ANCHOR)		EACH
SIGNING DELINEATOR (TYPE A)(YELLOW FLEXIBLE)(TYPE 3 ANCHOR)		EACH
SIGNING DELINEATOR (TYPE B)(WHITE FLEXIBLE)(TYPE 3 ANCHOR)		EACH
SIGNING DELINEATOR (TYPE B)(YELLOW FLEXIBLE)(TYPE 3 ANCHOR)		EACH

RECAPITULATION OF SIGNING & DELINEATION BID ITEMS

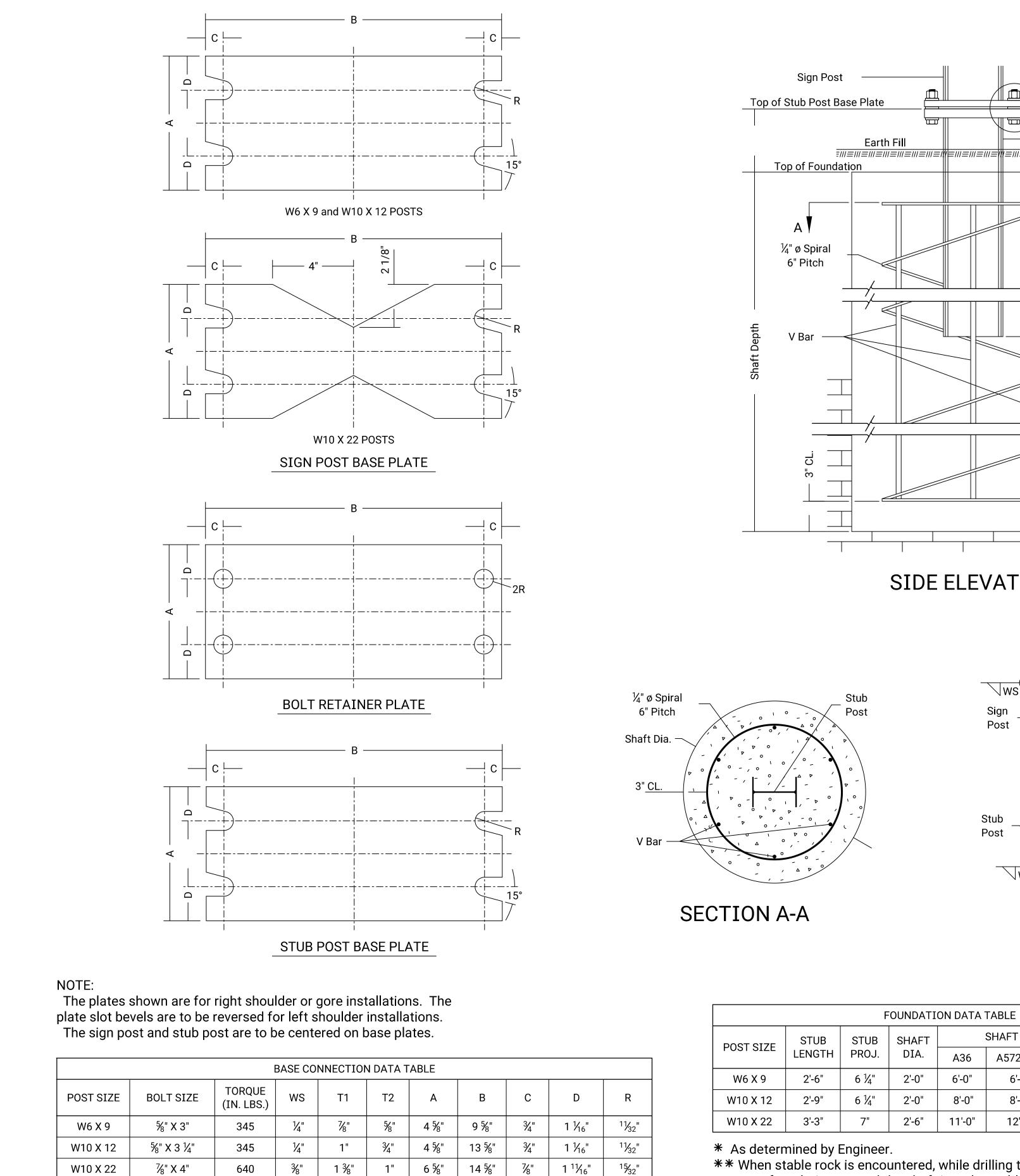
BID ITEMS	
SIGN (REMOVE AND RESET)	

Note:

The contract bid for steel beam posts, stub posts, base plates, and footings will be based on A36 Grade steel quantities. When furnishing the A572 Grade alternate steel, the payment will be based on the equivalent A36 steel unit prices in the contract.

				1
STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	114	200
	ROXIMATE ANTITIES		UNITS	
LL	IMP SUM	LL	IMP SUM	

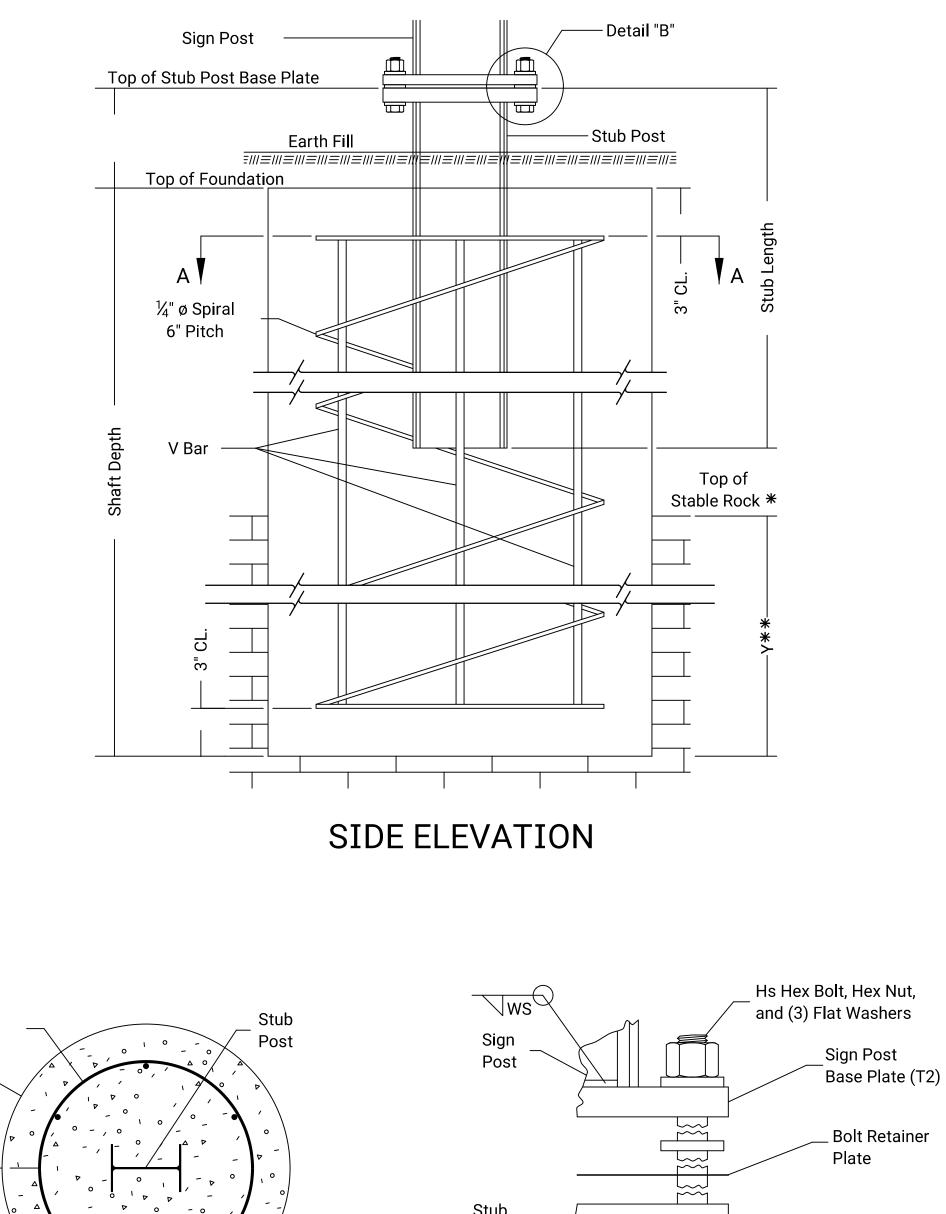
2	10/01/	19	Remove	ed PSST couple	er and cha	nged the tab	les	D.D	.G.	E.W.N.	
1	7/23/2	10	Chang	jed Bid Items a	as per Spe	c Book (2007	7)	D.D	.G.	D.B.	
NO.	DATE			REV	ISIONS			B	1	APP'D	
	KANSAS DEPARTMENT OF TRANSPORTATION										
	RECAPITULATION OF								Certified		
			SIGNI	NG & D	ELI	NEAT	ION	J			erti
			010111	BIDI			- 0 .	•			l –
						5					Graphics
											đ
 TE4	-50								7/1	1/03	5 U
FHWA AP	PROVAL			10/01/2019	APP'D	Steven A. I	Buckley				
DESIGNE	D	D.D.G.	DETAILED	K.D.S.	QUANTI	TIES		TRACED			Ö
DESIGN C	CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CI	۲.		TRACE CK			Đ.
KD0	T Grap	hics	Certifie	d 12-1	7-201	9		Sh.	No.	114	_

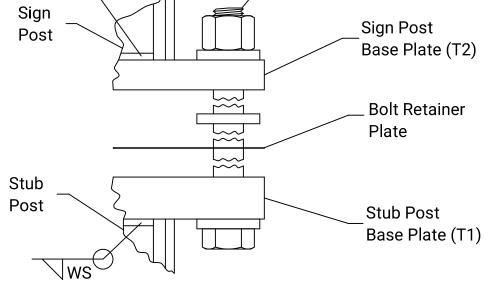


T1: Stub Post Base Plate Thickness

T2: Sign Post Base Plate Thickness

Plotted :11-06-23 293301\KA571401p By user \pwworkir Drawn File : c





V BAR

NO. SIZE

6

5

13

#4

#6

#6

DETAIL "B"

Y******

3'-6"

4'-0"

5'-6"

SHAFT DEPTH

A572 ALT

6'-0"

8'-0"

12'-0"

* As determ	ned by Engineer.
-------------	------------------

****** When stable rock is encountered, while drilling the shaft for the concrete foundation, extend the shaft into the stable rock the distance "Y". The total shaft depth shall not exceed that given for the corresponding post size and steel type.

SHAFT

DIA.

2'-0"

2'-0"

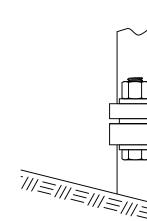
2'-6"

A36

6'-0"

8'-0"

11'-0"



NOTE TO THE ENGINEER:

STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	115	200

GENERAL NOTES

All structural steel shall conform to ASTM A36 or A572 Grade 50. Alternates using ASTM A588 or A242 Grade 50 or other approved steels may be substituted for ASTM A572 steel. All structural steel shall be galvanized in accordance with ASTM A123 after fabrication. All high strength bolts, nuts, and washers shall conform to ASTM A325

and shall be coated in accordance with the coating specifications. The bolt retainer plate is to be 30 gauge sheet steel and galvanized in accordance with ASTM 123 after fabrication. If galvanized sheet steel is

used, no other galvanization is required.

Commercial grade concrete may be substituted for sign support footings.

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

1. Assemble sign post base plate to stub post base plate with bolts, nuts, washers, and bolt retainer plate. Washers are to be installed on top of the sign post base plate, bottom of the stub post base plate, and between the sign post base plate and bolt retainer plate for each bolt.

2. Plumb post by varying thickness of washers between sign post base plate and bolt retainer plate.

NOTE: no washers or shims are to be placed between the bolt retainer plate and stub post base plate.

3. Tighten all bolts the maximum possible with a 12 to 15 inch wrench to bed washers and shims and to clean bolt threads. Loosen each bolt in turn and retighten in a systematic order to the prescribed torque (see table). Do not over tighten.

4. Burr threads at junction with nut using a center punch to prevent nut loosening.

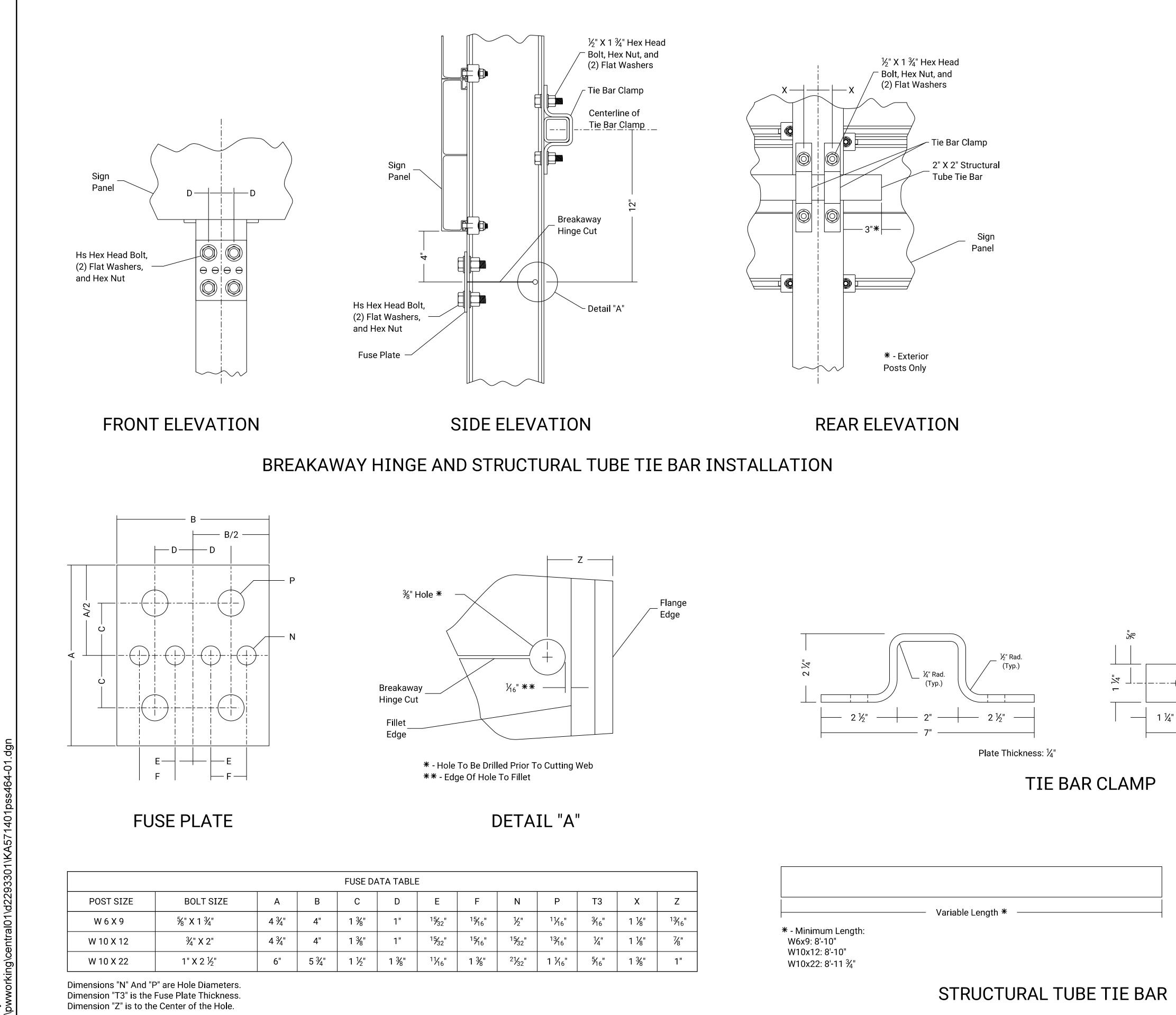
\frown	
	Top of Stub Post Base Plate
ן שי	
= = =	

FRONT ELEVATION

The intent of the "AASHTO Roadside Design Guide" and these plans is to have a 4" or less projection above the finished ground line after impact.

All dimensions are in inches, unless otherwise noted.

1												-
												-
		10/01/1			100 5 7							-
	1	10/01/1	9	Rer	noved S3x5.7 p	ost and re	vised notes		D.D.	G.	E.W.N.	_
	NO.	DATE			REV	ISIONS			BY		APP'D	
	KANSAS DEPARTMENT OF TRANSPORTATION									ס		
		DETAILS FOR								Certified		
		S	TE	EL BEA	M BRE	EAKA	WAY	PO	STS			Cert
				S	HEET	1 0	F 2					
												Graphics
	TE4	63								7/1	/03	Gra
F	HWA AP	PROVAL			10/01/2019	APP'D	Steven A. E	Buckley				
D	ESIGNE	D D	.D.G.	DETAILED	A.A.D.	QUANTIT	IES		TRACED			Ö
D	ESIGN C	XK. S	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CH	ζ.		TRACE CK.			<u>Š</u>
	KD0	T Graph	nics	Certifie	d 12-1	7-201	.9		Sh.	No.	115	



s464-01 Plotted : 11-06-23 293301\KA571401p entral01\d2 <u>q</u>/c Drawn By : user File : c:\pwworkin

Ρ	Т3	Х	Z
¹¹ 716"	³ ⁄16"	1 1⁄8"	¹³ ⁄16"
¹³ ⁄16"	1⁄4"	1 1⁄8"	7⁄8"
1 ¼ ₁₆ "	5/16"	1 ¾"	1"

STATE PROJECT N0.		YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	035-056 KA-5714-01	2023	116	200

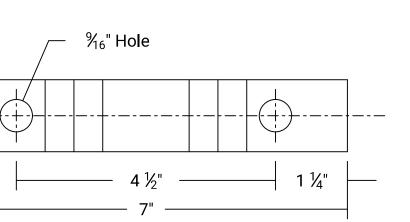
GENERAL NOTES

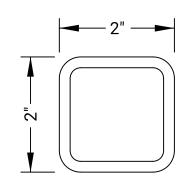
Fuse plate steel shall conform to ASTM A36 (no substitutes will be allowed). All other structural steel shall conform to ASTM A36 or A572 Grade 345. Alternates using ASTM A588 or A242 Grade 345 or other approved steels may be substituted for ASTM 572 steel. All structural steel shall be galvanized in accordance with ASTM A123 after fabrication.

All high strength bolts, nuts, and washers shall conform to ASTM A325 and shall be coated in accordnce with the coating specifications.

The fuse plate shall be centered on the saw cut and the steel post.

It is permissible to close the ends of the structural tubing tie bar with a steel plate.

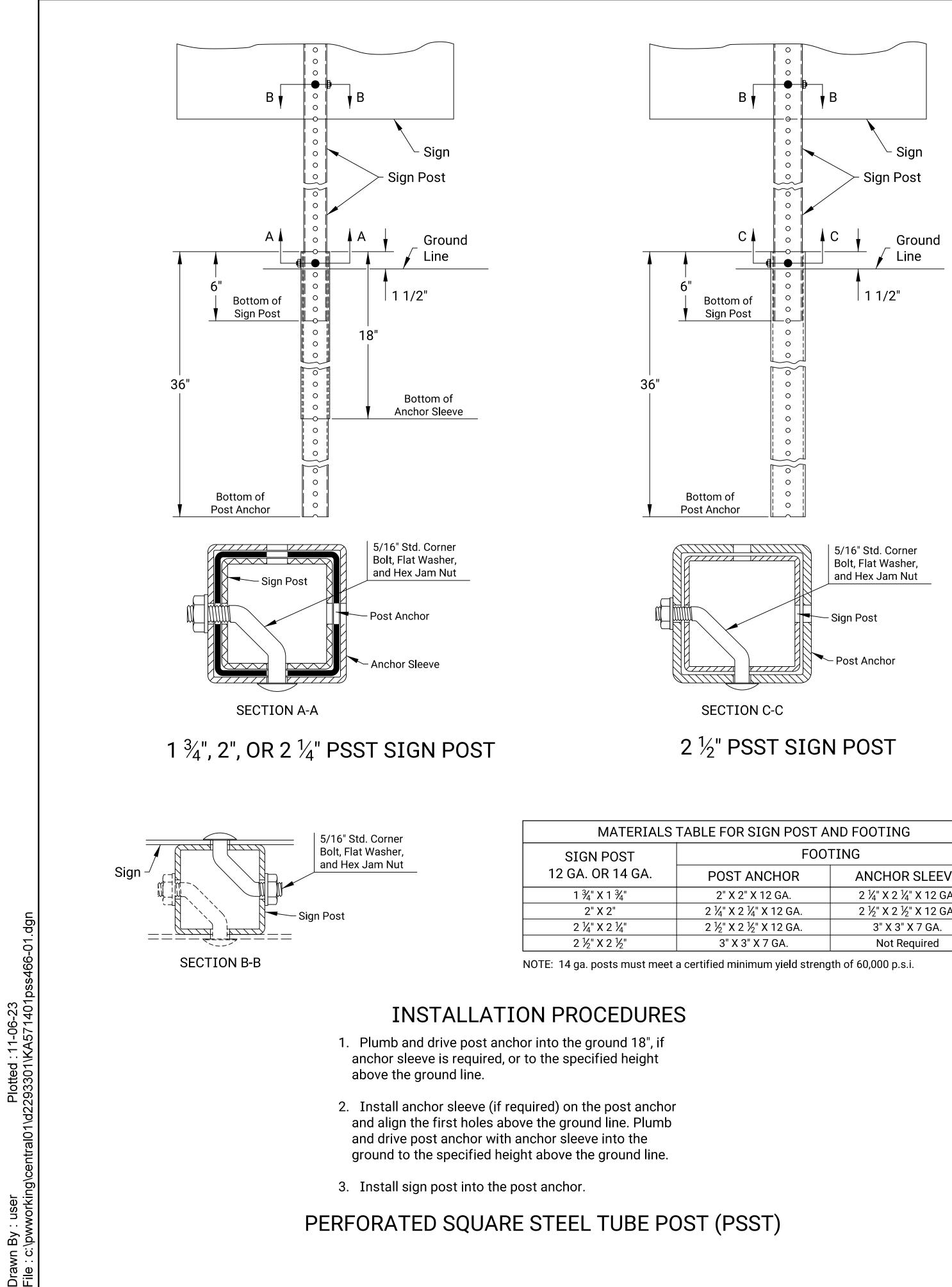




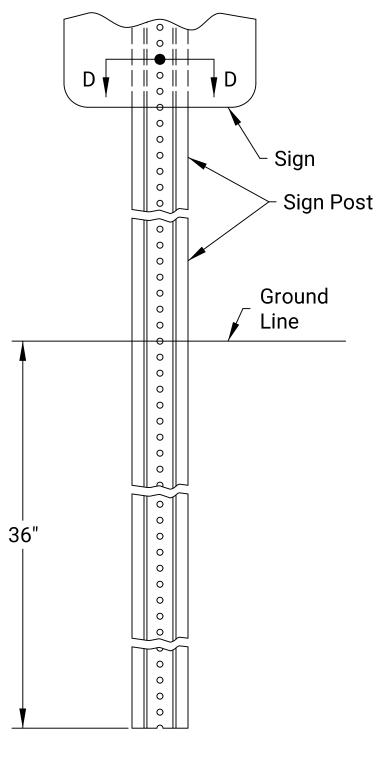
Wall Thickness: 3/16"

All dimensions are in inches, unless otherwise noted.

										1
	1	10/01/19	Rer	noved S3x5.7 pc	osts and re	vised notes.	D.D.	G.	E.W.N.	
	NO.	DATE		REV	ISIONS		BY	,	APP'D	
	KANSAS DEPARTMENT OF TRANSPORTATION									
	DETAILS FOR									Certified
		STE	EEL BEA	AM BRE	ΞΑΚΑ	WAY PC	STS			<u>erti</u>
				SHEET	2 OF	- 2				
										<u>i</u> h
	TE4	64						7/1	/03	Graphics
F	HWA AP	PROVAL		10/01/2019	APP'D	Steven A. Buckley				⊩
D	DESIGNE	D.D.C	6. DETAILED	A.A.D.	QUANTIT	IES	TRACED			<u>]</u> O
D	ESIGN C	K. S.A.E	B. DETAIL CK.	D.D.G.	QUAN. CH	Κ.	TRACE CK.			19
	KD0	Г Graphic	s Certifie	ed 12-1	7-201	.9	Sh.	No.	116	- -



ABLE FOR SIGN POST A	ND FOOTING
F00 ⁻	ΓING
POST ANCHOR	ANCHOR SLEEVE
2" X 2" X 12 GA.	2 ¼" X 2 ¼" X 12 GA.
2 ¼" X 2 ¼" X 12 GA.	2 ½" X 2 ½" X 12 GA.
2 ½" X 2 ½" X 12 GA.	3" X 3" X 7 GA.
3" X 3" X 7 GA.	Not Required



TYPICAL

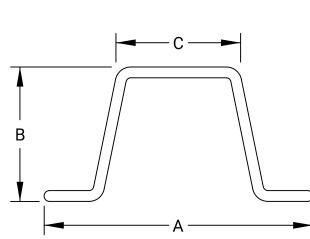
STEEL "U" POST

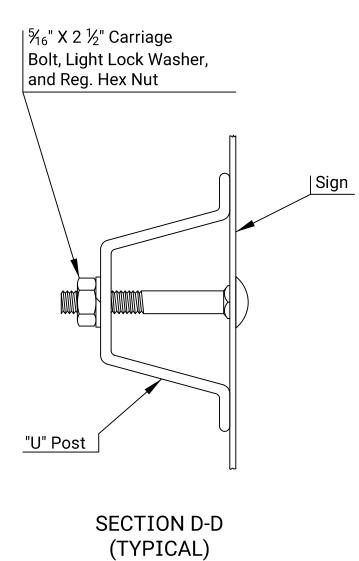
NO.	DATE		REVISIO	NS		BY	APP'D
					TATION	- •	
	KA	NSAS DEPA	RTMENT OF	TRANSPOR	TATION		
DETAILS FOR PERFORATED SQUARE STEEL TUBE POSTS (PSST)							
	_						
	SQUA	ARE STE	EL TUB	E POST	S (PSS	ST)	
	•				•	/	
		AND S	SIEEL "(J" POST	S		
TE4	56					10/0)1/19
TE4(10/01/2019 API	P'D Eric W.Ni		10/0)1/19
	ROVAL	DETAILED		P'D Eric W.Ni ANTITIES)1/19

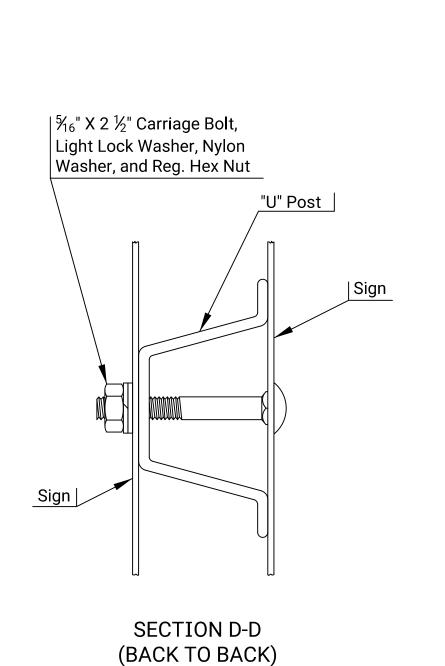


(Dimensions are nominal)

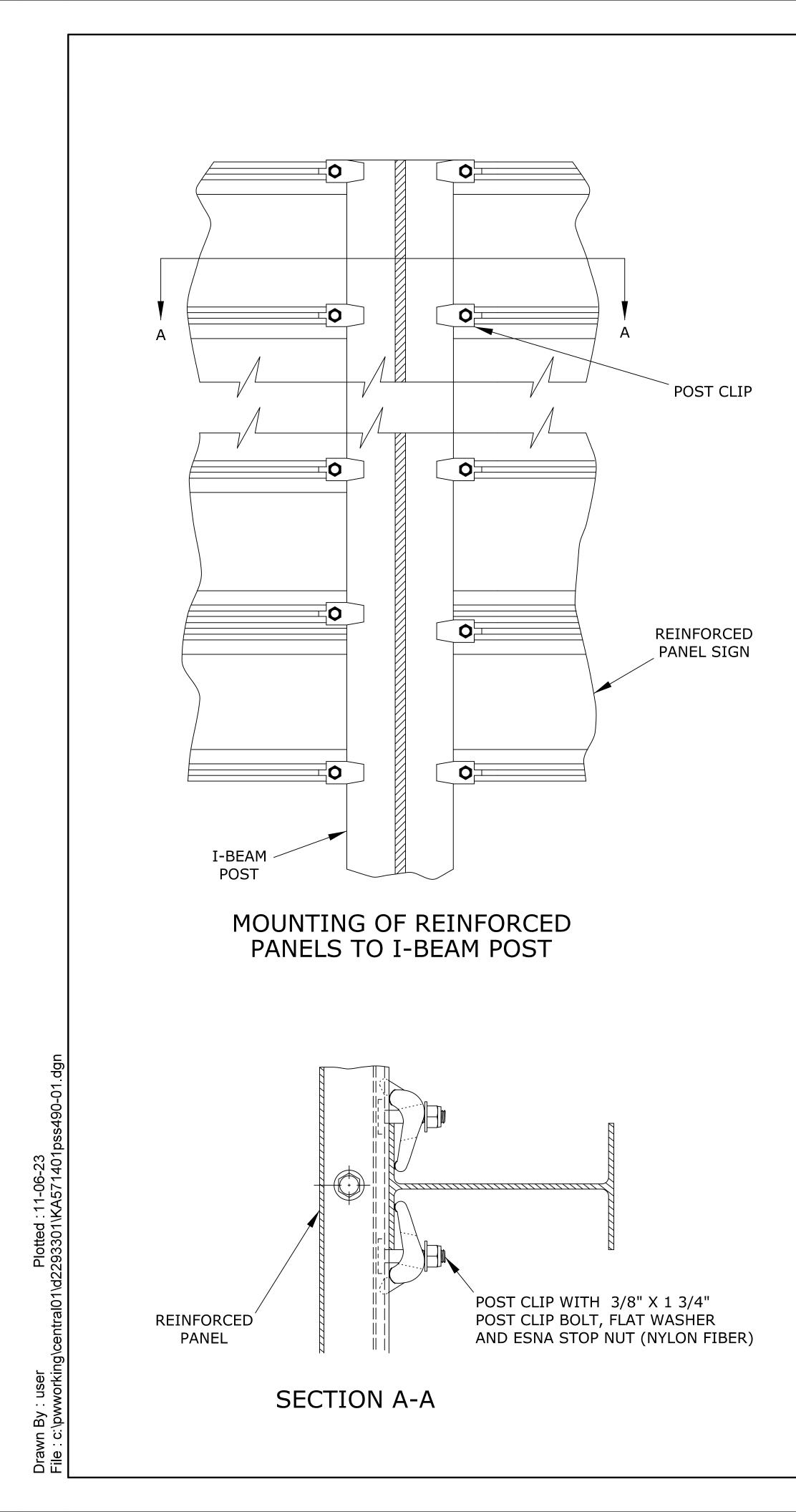
DIM.	2 LBS/FT	3 LBS/FT
А	3 1/8 "	3 1/2 "
В	1 17/32 "	1 3/4 "
С	1 1/4 "	1 5/8 "
(

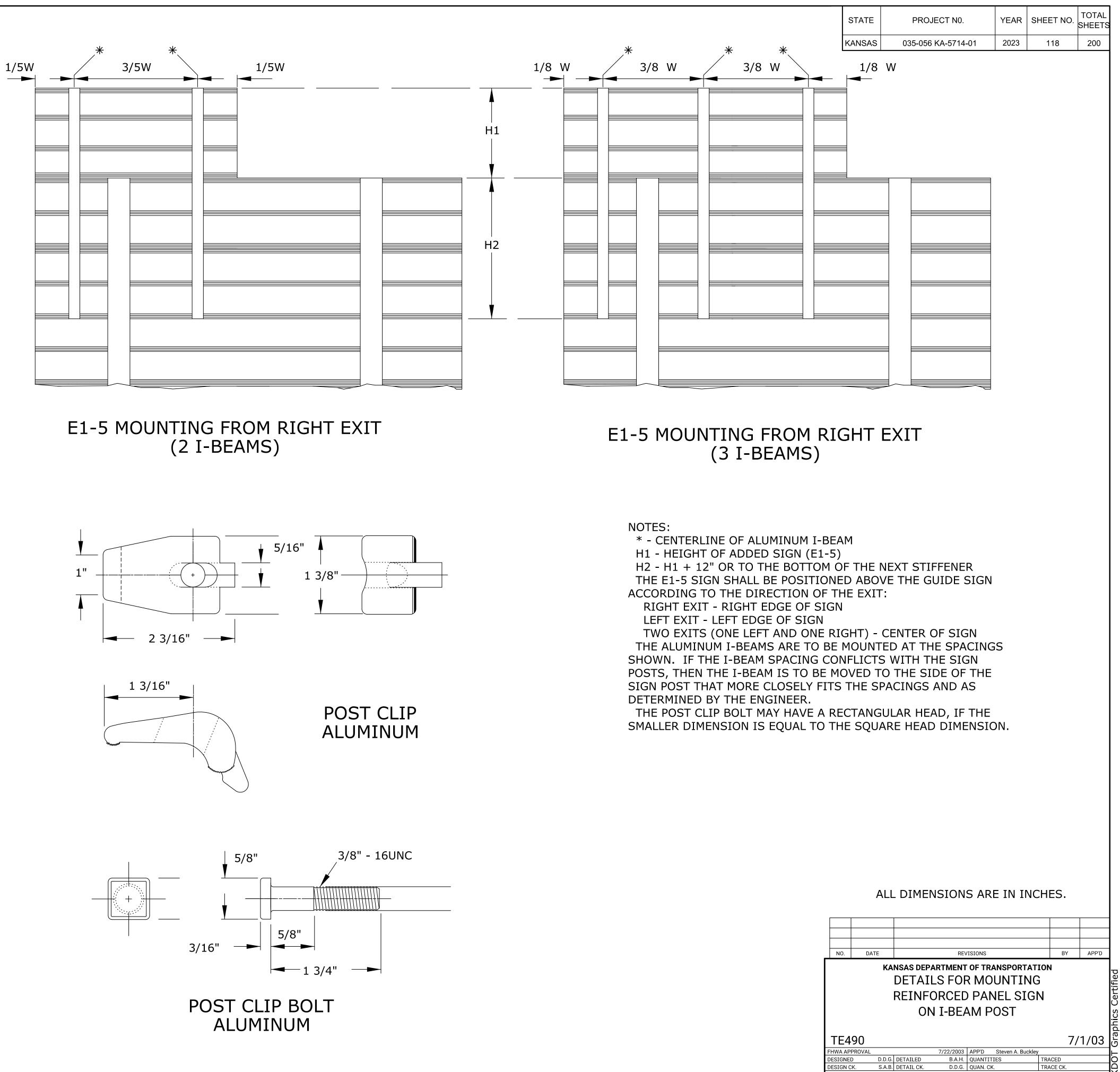


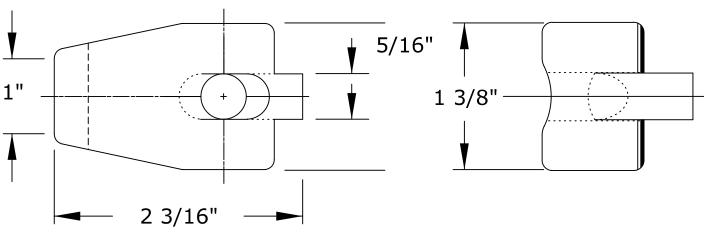


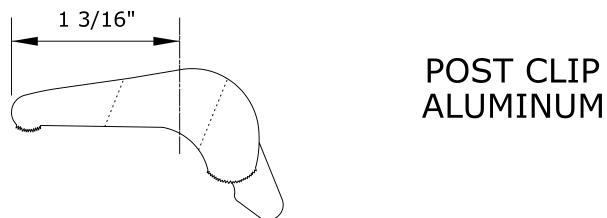


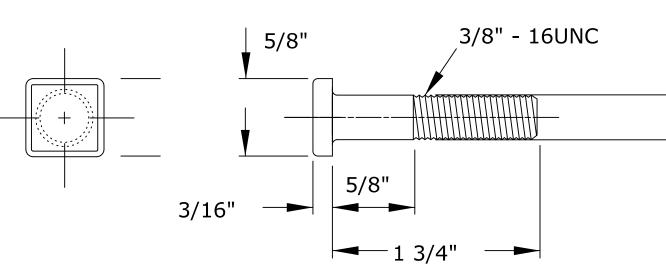
STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
ANSAS	035-056 KA-5714-01	2023	117	200







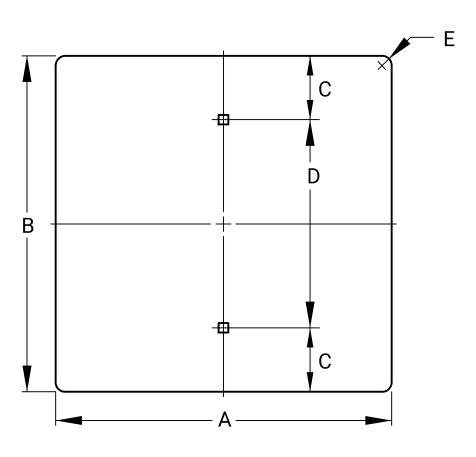




KDOT Graphics Certified 07-17-2018

SIGN CK.

Sh. No. <u>118</u>



D

A B C

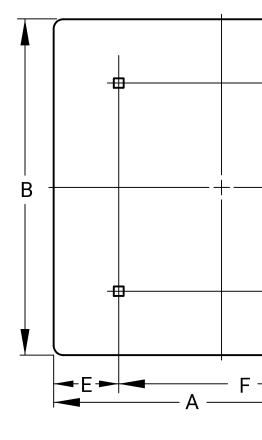
E T AREA

 $\begin{pmatrix}
1 \\
1
\end{pmatrix}$

SIGN SIZE

	3 X 8	3	8	1	6	3/8	0.040	0.17
	6 X 12	6	12	3	6	3/8	0.063	0.50
	12 X 6	12	6	1 ½	3	3⁄4	0.063	0.50
	12 X 9	12	9	1 ½	6	1 ½	0.063	0.75
	12 X 18	12	18	3	12	1 ½	0.063	1.50
	12 X 24	12	24	3	18	1 ½	0.080	2.00
	12 X 36	12	36	6	24	1 ½	0.080	3.00
	12 X 48	12	48	6	36	1 ½	0.080	4.00
	18 X 6	18	6	1 ½	3	1 ½	0.063	0.75
	18 X 18	18	18	3	12	1 ½	0.063	2.25
	18 X 30	18	24	3	24	1 ½	0.080	3.75
	18 X 36	18	24	6	24	1 ½	0.080	4.50
	18 X 42	18	24	6	30	1 ½	0.080	5.25
	18 X 48	18	24	6	36	1 ½	0.080	6.00
	21 X 15	21	15	1 ½	12	1 ½	0.080	2.19
	24 X 6	24	6	1 ½	3	1 ½	0.080	1.00
	24 X 12	24	12	3	6	1 ½	0.080	2.00
	24 X 18	24	18	3	12	1 ½	0.080	3.00
	24 X 24	24	24	3	18	1 ½	0.080	4.00
	24 X 30	24	30	3	24	1 ½	0.080	5.00
	24 X 36	24	36	6	24	1 ½	0.080	6.00
	30 X 12	30	12	3	6	1 7⁄8	0.080	2.50
	30 X 15	30	15	1 ½	12	1 7⁄8	0.080	3.13
	30 X 18	30	18	3	12	1 7⁄8	0.080	3.75
	30 X 21	30	21	1 ½	18	1 ½	0.080	4.38
	30 X 24	30	24	3	18	1 7⁄8	0.080	5.00
	30 X 30	30	30	3	24	1 7⁄8	0.080	6.25
	30 X 36	30	36	6	24	1 7⁄8	0.080	7.50
	36 X 12	36	12	3	6	1 ½	0.080	3.00
	36 X 18	36	18	3	12	1 ½	0.080	4.50
	36 X 24	36	24	3	18	1 ½	0.080	6.00
	36 X 30	36	30	3	24	2 1⁄4	0.080	7.50
	36 X 36	36	36	6	24	2 1⁄4	0.080	9.00
3	45 X 36	45	36	3	30	2 1⁄4	0.100	11.25

Drawn By : user Plotted : 11-06-23 File : c:\pwworking\central01\d2293301\KA571401pss506-01.dgn



-				-		-				
	SIGN SIZE	A	В	С	D	E	F	G	Т	AREA
	36 X 12	36	12	3	6	3	30	1 1/2	0.080	3.00
	36 X 30	36	30	3	24	3	30	2 1⁄4	0.080	7.50
	36 X 48	36	48	9	30	6	24	0	0.100	12.00
	36 X 60	36	60	12	36	6	24	0	0.100	15.00
2	36 X 72	36	72	6	60	6	24	0	0.100	18.00
	42 X 12	48	12	3	6	6	30	1 1/2	0.080	3.50
	42 X 18	48	18	3	12	6	30	1 1/2	0.080	5.25
	42 X 24	48	24	6	12	6	30	1 7⁄8	0.080	7.00
	42 X 36	48	36	6	24	6	30	0	0.100	10.50
	48 X 12	48	12	3	6	9	30	1 1/2	0.080	4.00
	48 X 18	48	18	3	12	9	30	1 1/2	0.080	6.00
	48 X 24	48	24	6	12	9	30	1 7⁄8	0.080	8.00
	48 X 30	48	30	6	18	9	30	0	0.100	10.00
	48 X 36	48	36	6	24	9	30	0	0.100	12.00
	48 X 42	48	42	6	30	9	30	0	0.100	14.00
	48 X 48	48	48	9	30	9	30	0	0.100	16.00
	48 X 60	48	60	12	36	9	30	0	0.100	20.00
2	48 X 72	48	72	6	60	9	30	0	0.100	24.00
2	48 X 96	48	96	12	72	9	30	0	0.100	32.00
-	60 X 12	60	12	3	6	12	36	0	0.100	5.00

NOTE:

All holes are %" square, unless otherwise noted.

The dimension "T" is the thickness of the aluminum blank.

- 1 Holes shall be $\frac{5}{16}$ " diameter.
- 2 Dimension "D" requires a center hole.
- 3 Additional hole 12" below top hole.

					STATE		PROJECT	⁻ N0.	YEAR	SHEET NO.	TOTAL SHEETS
	— G				KANSAS	s ()35-056 KA-	5714-01	2023	119	200
SIGN SIZE	A	В	С	D	E	F	G	Т	AREA]	
60 X 18	60	18	3	12	12	36	0	0.100	7.50	_	
60 X 24	60	24	6	12	12	36	0	0.100	10.00	_	
60 X 30	60	30	6	18	12	36	0	0.100	12.50	_	
60 X 36	60	36	6	24	12	36	0	0.100	15.00		
60 X 42	60	42	6	30	12	36	0	0.100	17.50	_	
60 X 48	60	48	9	30	12	36	0	0.100	20.00	_	
72 X 12	72	12	3	6	15	42	0	0.100	6.00		
72 X 18	72	18	3	12	15	42	0	0.100	9.00		
72 X 24	72	24	6	12	15	42	0	0.100	12.00		
72 X 30	72	30	6	18	15	36	0	0.100	15.00		
72 X 36	72	36	6	24	15	42	0	0.100	18.00		
72 X 42	72	42	6	30	15	42	0	0.100	21.00		
72 X 48	72	48	9	30	15	42	0	0.100	24.00		
84 X 12	84	18	3	6	18	48	0	0.100	7.00		
84 X 18	84	18	3	12	18	48	0	0.100	10.50	-	
84 X 24	84	24	6	12	18	48	0	0.100	14.00	-	
84 X 30	84	30	6	18	18	48	0	0.100	17.50	1	
84 X 36	84	36	6	24	18	48	0	0.100	21.00	1	
84 X 42	84	42	6	30	18	48	0	0.100	24.50	1	
1	+	ł		1	I			1	μ	-	

All dimensions are in inches.

r										
1	10/01/	/19	Upda	ite sign blank c	letails and	dimensions	D.D.	G.	E.W.N.	
NO.	DAT	E		REV	ISIONS		BY	,	APP'D	
		KΔ	NSAS DEP		OF TR	ANSPORTAT	τον			
					01 114		1011			РЧ
										Graphics Certified
		S	SIGN B	LANK	DET	AILS FOI	R			Р Г
		-								C
			FLA	T SHE	EI S	IGN2				Ľ
										4
TE5	06							7/1	/03	Ľ
IES	00							// 1	/03	Ľ
FHWA AP	PROVAL			10/01/2019	APP'D	Steven A. Buckley	1			┢
DESIGNE	D	D.D.G.	DETAILED	A.A.D.	QUANTIT	IES	TRACED			Ċ
DESIGN C	K.	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CH	Κ.	TRACE CK.			C
KD0	T Grar	phics	6 Certifie	1 12-1	7-201	9	Sh	No	119	1-
				~	, _01		511.	110.	115	

DETAILED SPECIFICATIONS FOR FLAT SHEET SIGNS AND OVERLAY PANELS

All new flat sheet sign blanks shall be of the fabrication and thickness shown on the flat sheet blank detail sheets, unless other details are shown in the plans.

Flat sheet blanks shall be used for signs that are less than or equal to 7'-0" in length and/or less than or equal to 4'-0" in height, unless other details are shown in the plans. Flat sheet blanks shall also be used for signs that are 4'-0" in length and less than or equal to 8'-0" in height, unless other details are shown in the plans.

The design details for signs (color, letter height, and letter series) shall be as shown in the FHWA Standard Highway Signs and Markings book (2004 edition and supplements), unless other details are shown in the plans. All sign faces shall be covered with Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The sheeting used for the direct applied legend and borders shall be Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The school warning signs, the "SCHOOL" portion of the S5-1 sign, S4-3p plaque, and any supplemental plaques used with these warning signs shall have a fluorescent yellow-green background, unless otherwise noted in the plans.

The type of adhesive used for retroreflective sheeting or lettering film shall be heat activated or pressure sensitive.

DETAILED SPECIFICATIONS FOR REINFORCED PANEL SIGNS

All new reinforced sign panels shall be of the fabrication and thickness shown on the reinforced panel detail sheets. If extrusheet fabricated sign panels are used, they shall be of the length, width and in the position shown. If extrusheet fabricated panel dimensions are not shown, a line of legend should be placed entirely on one panel. If extruded fabricated sign panels are used, either 1'-0" or 6" panels shall be used. The 6" panels shall be used only at the top or bottom of signs.

Reinforced panels shall be used for signs that are greater than 7'-0" in length or greater than 4'-0" in height, unless other details are shown in the plans.

All sign faces shall be covered with Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

t

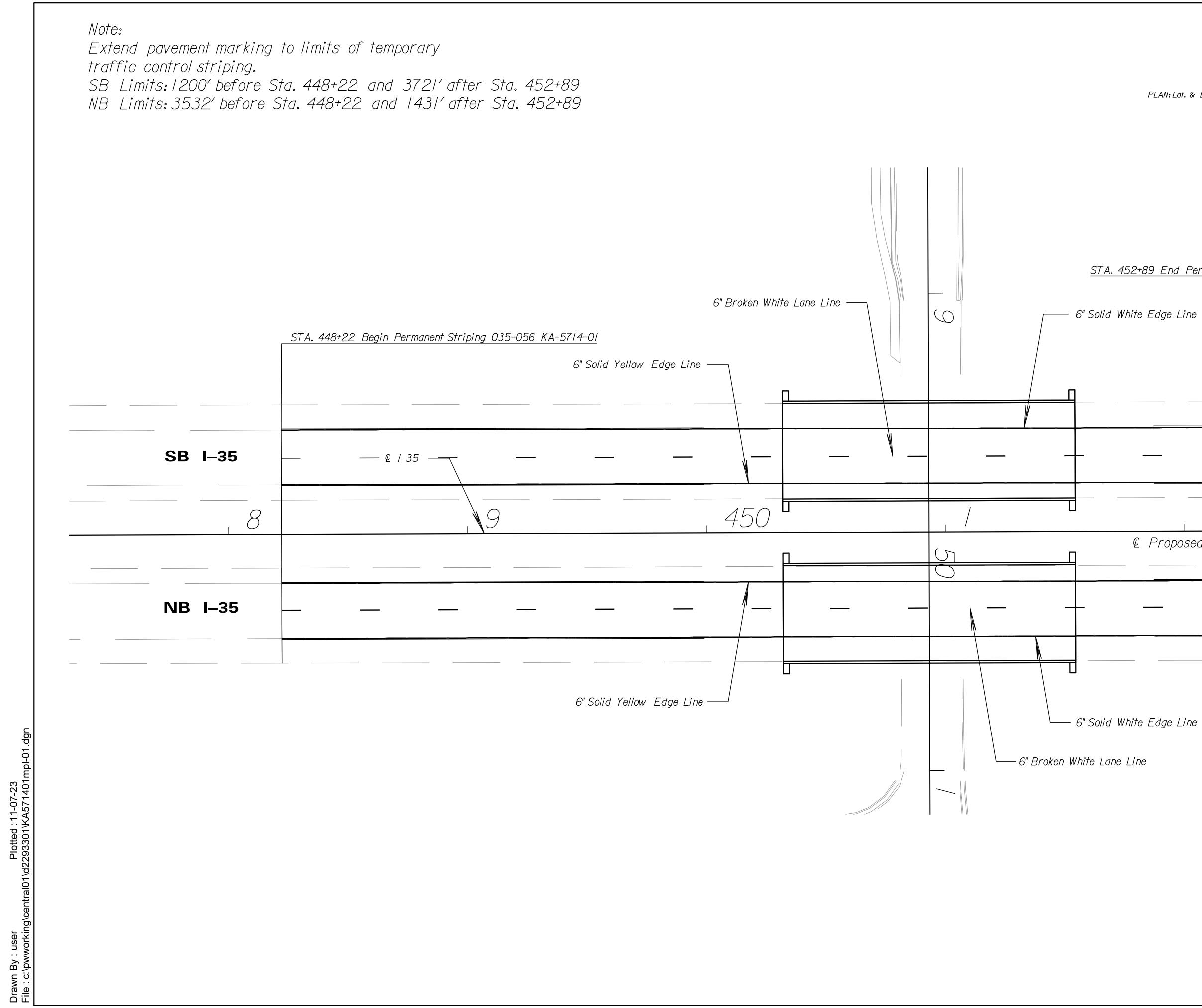
The sheeting used for the direct applied legend and borders shall be Type IV high intensity retroreflective sheeting, unless otherwise noted in the plans.

The type of adhesive used for retroreflective sheeting or lettering film shall be heat activated or pressure sensitive.

Letters and numbers on reinforced panel signs are modified Series "E" unless otherwise shown.

Spacing table dimensions are in inches.

2	10/01/19		Chang	ged notes		D.D.	G.	E.W.N.
1	7/23/10		Changed Notes	and Shee	ting Type	D.D.	G.	D.B.
NO.	DATE		REV	ISIONS		BY	/	APP'D
		DETAIL DR REIN	S SPE	CIFI D SI	ANSPORTAT CATION GN PAN T SIGNS	IS IELS		
TE5	90					7	/01	/03
FHWA AP	PROVAL		10/01/2019	APP'D	Steven A. Buckley	y		
DESIGNED	D.D	.G. DETAILED	K.D.S.	QUANTI	TIES	TRACED		
DESIGN C	K. S.A	A.B. DETAIL CK.	D.D.G.	QUAN. C	K.	TRACE CK.		
KD0	T Graphi	ics Certifie	d 12-1	7-201	19	Sh.	No.	120

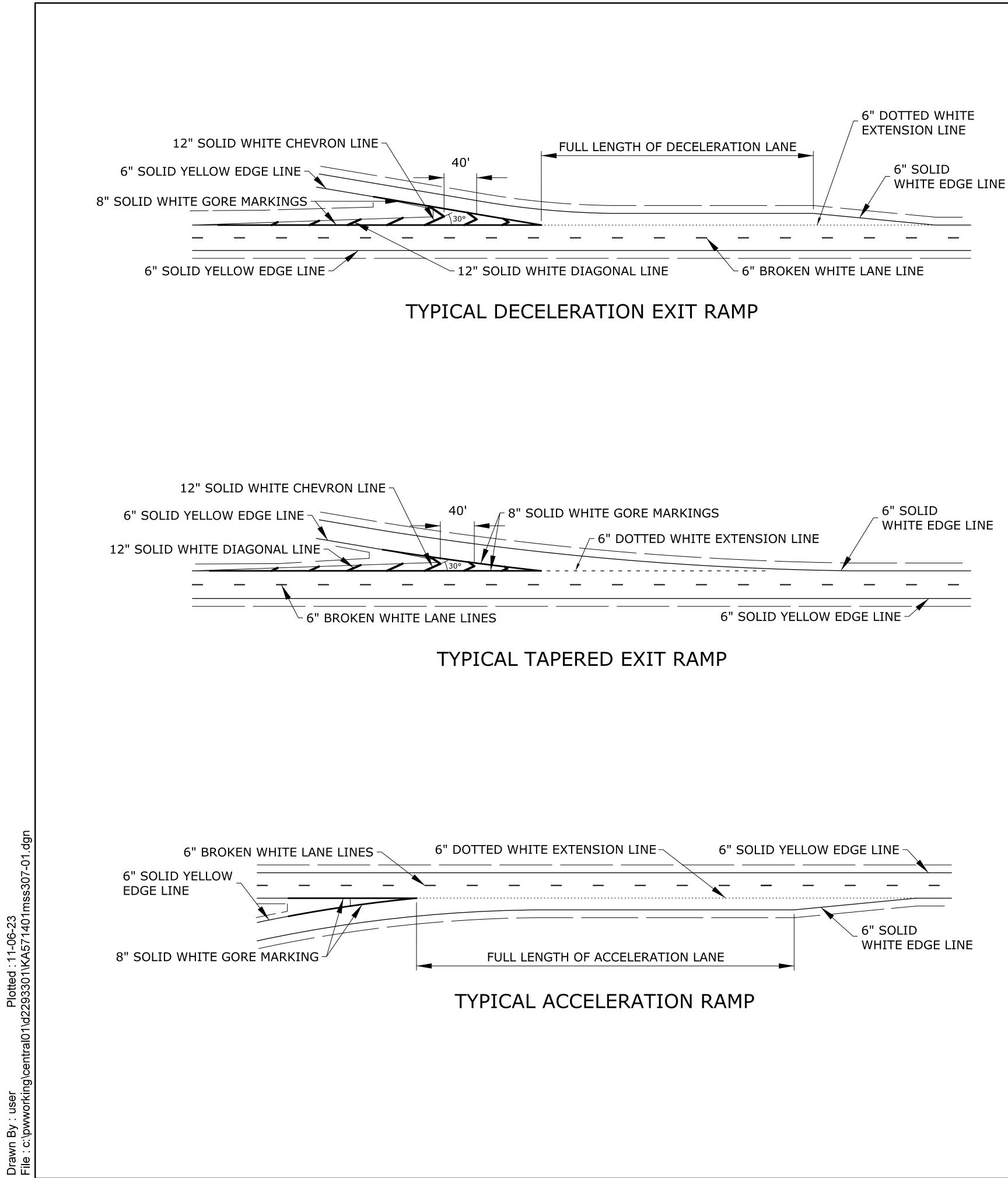


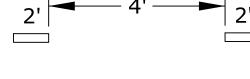
Drawn By : user File : c:\pwworking\centr

	STATE	PROJECT N0.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	121	200
SCALE 20' 0' 20' 40' PLAN: Lat. & Long.					
<u>2+89 End Permanent Striping 035–056 KA–5714–</u> ite Edge Line	<u>01</u>				
					_
© Proposed Improvement					

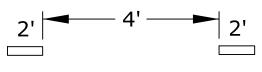
KANSAS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

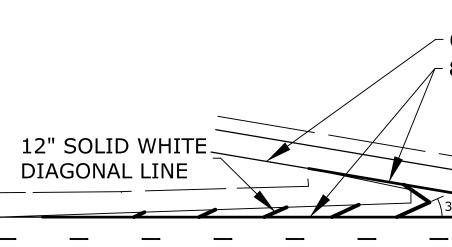




TYPICAL SPACING FOR DOTTED EXTENSIO LINES, UNLESS OTHERV NOTED ON PLANS.



____ ____ 6" SOLID YELLOW EDGE



	SHOULDER LINE
	DLID WHITE EDGE LINE
	$ \frac{12'}{12'}$
EDGE OF PAVEMENT	
	6" BROKEN WHITE LANE LINE
6" SOLID YELLOW EDGE LINE	¥
	EDGE OF PAVEMENT
<u> </u>	6" SOLID WHITE EDGE LINE
	EDGE OF PAVEMENT
SHOULDER LINE	
	E AND EDGE LINE MARKINGS SIX LANE DIVIDED HIGHWAYS
6" SOLID YELLOW ED 8" SOLID WHITE GOR 12" SOLID WH AGONAL LINE	
6" SOLID YELLOW EDGE LINE 8"	LANE DROP MARKING 6" BROKEN WHITE LANE LINES
TYPICAL L	ANE DROP
	$3' \rightarrow 24' \rightarrow 3' \rightarrow 3' \rightarrow 3' \rightarrow 3'$
FOR DOTTED EXTENSIONFORLINES, UNLESS OTHERWISEUN	PICAL SPACINGTYPICAL SPACINGOR BROKEN LINESFOR LANE DROP.NLESS OTHERWISEUNLESS OTHERWISEOTED ON PLANS.NOTED ON PLANS.
NOTE: LONGITUDINAL PAVEMENT MARKING LINES SHALL BE OFF MINIMUM OF 2" FROM LONGITUDINAL PAVEMENT JOINTS. NOTE:	SET A 2 5/25/12 Dotted Extension Lines and Lane Drop Lines B.A.H. B.D.G. 1 7/26/05 New FHWA Approval Date J.F.F. B.D.G.
AT RAMP TERMINALS WITH CROSS-ROADS, WRAP 6" EDGE AROUND RADII.	LINES NO. DATE REVISIONS BY APP'D KANSAS DEPARTMENT OF TRANSPORTATION
NOTE: ON NON I, US, AND K ROUTES, 4" EDGE LINES MAY BE INS 6" EDGE LINES ARE NOT REQUIRED ON NON I, US, AND K	ROUTES. ROADWAYS TE307
	FHWA APPROVAL 5/25/2012 APP'D Brian D. Gower DESIGNED J.F.F. DETAILED J.F.F. QUANTITIES TRACED DESIGN CK. B.D.G. DETAIL CK. B.D.G. QUAN. CK. TRACE CK.
	KDOT Graphics Certified07-17-2018Sh. No. 122

YEAR SHEET NO. SHEETS

200

2023 122

PROJECT N0.

035-056 KA-5714-01

STATE

KANSAS

6" Broken WHITE	6"			F PAV	
	Broken	6" Dotted WHITE	6" Broken WHITE	6" Solid WHITE	8 Brol WH
Lane Line	Lane Line (PCP)	Extension Line	Lane Drop Line	Lane Line	Lane Lir
3532					
467					
1431					
1200					
467					
3721					
	<u></u>				
	<u> </u>				
-	2705	2705	2705	2705	2705

					S	UMM	ARY (
LOCATION	4	4	1	4	4	Ŀ	STOP
TOTALS							

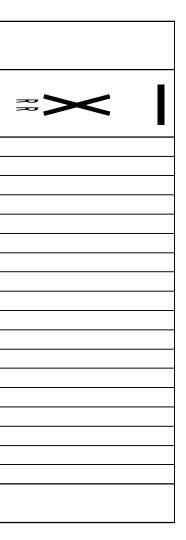
s3 Plotted : 11-06-23 :93301\KA571401m By user \pwworkin Drawn File c

NOTE: FOR SPECIFIC PAVEMENT MARKING DETAILS AND DIMENSIONS SEE PLAN SHEETS

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED.

														STATE	PROJECT N0.	TEAR	SHEET N
=N	ENT MA	RKIN	GS											KANSAS	35-056 KA-5714-01	2023	123
- ' {		8"	12"	12"	12" Solid	24" Solid			4"				12"				
Bro	on 8"	Dotted	Solid	Solid	WHITE	WHITE	24"	4"	Solid	4"	4"	6"	Solid				
WF		WHITE	WHITE	WHITE	Type I	Type II	Solid WHITE	Solid YELLOW	YELLOW	Solid YELLOW	Broken YELLOW	Solid YELLOW	YELLOW				
ane	Core Line	Extension		Chevron	Crosswalk Line	Crosswalk	Stop Line	Edge Line	Double	Line		Edge Line	Diagonal	RECAPITULATION OF QU	IANTITIES	5	
Li	e 	Line	Line	Line	Line	Line			Line				Line				
												3532 467		ITEMS	тота		UNI
												1431				L	
												1200		PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")			FT
												467		PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")	1352	3	FT
												3721		PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")			FT
														PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")			FT
														PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")			FT
														PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")	1081	8	FT
														PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")			FT
-																	
														PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")			F
														PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")			F
_														PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")			FT
														PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12") PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")			FT
													<u>├</u> ───┤				F
														PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6") PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(12")			F1 F1
														PAVEMENT MARKING (THERMOPLASTIC)(TELLOW)(12)			Г Г
														PAVEMENT MARKING (EPOXY)(WHITE)(4")			FI
														PAVEMENT MARKING (EPOXY)(WHITE)(6")			FT
														PAVEMENT MARKING (EPOXY)(WHITE)(8")			FT
														PAVEMENT MARKING (EPOXY)(WHITE)(12")			FT
														PAVEMENT MARKING (EPOXY)(YELLOW)(4")			F1
														PAVEMENT MARKING (EPOXY)(YELLOW)(6")			F1
														PAVEMENT MARKING (EPOXY)(YELLOW)(12")			F1
														PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(12")			FT
													ļ	PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")			FT
													<u> </u>	PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")			FT
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()			EAC
													<u> </u>	PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(WHITE)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(US-SHIELD)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(K-SHIELD)()			EAC
														PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)(I-SHIELD)()			EAC
_													ļ]				
														PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(6")			FT
														PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(8")			FT
														PAVEMENT MARKING (PATTERNED COLD PLASTIC)(WHITE)(12")			F
_														PAVEMENT MARKING REMOVAL	1421	4	FT
												10818				Т	

OF WORD & SYMBOL MARKINGS X-ING SCHOOL 70 24 ONLY 400 435 8 \$ 5 1 4

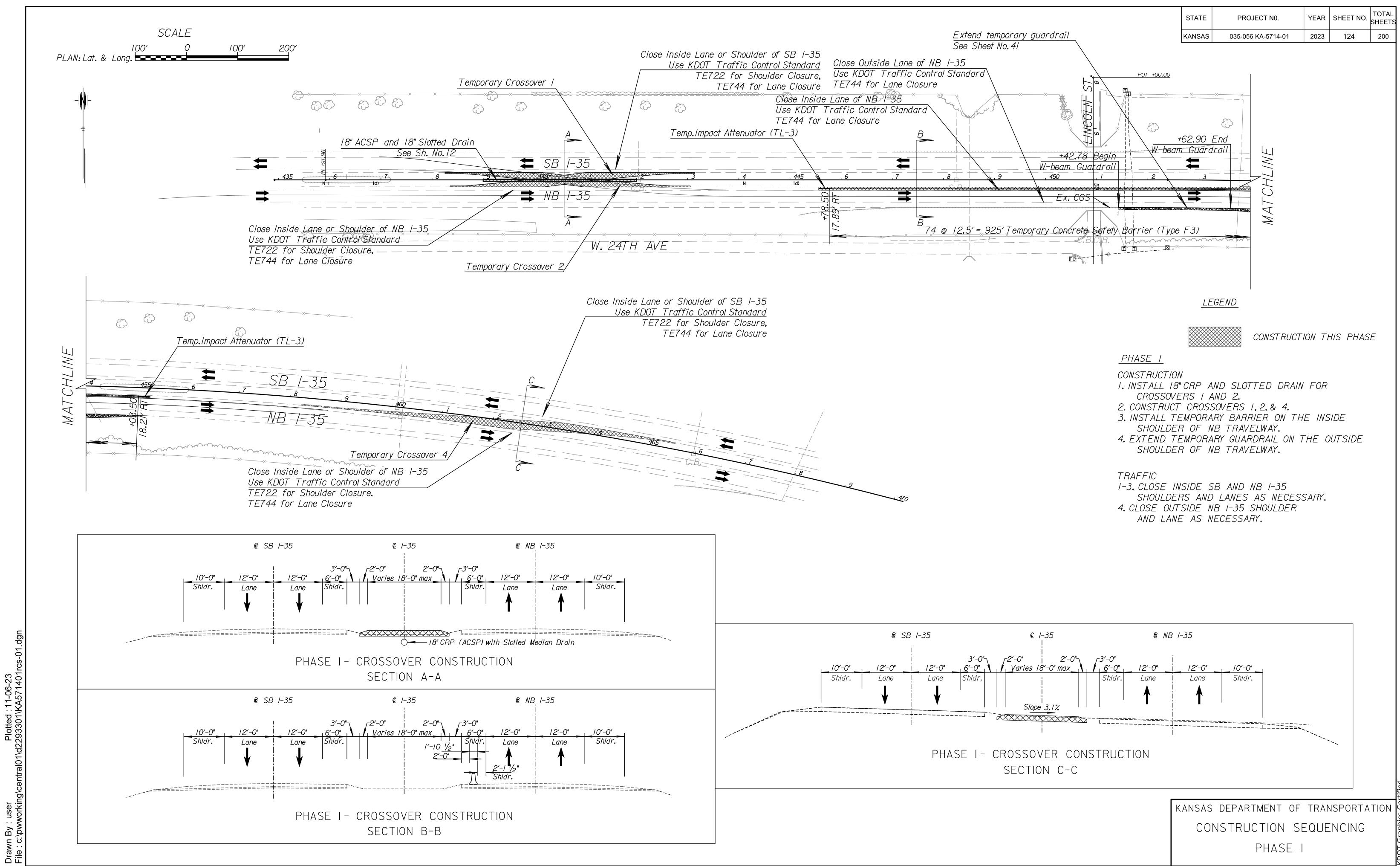


NOTE:

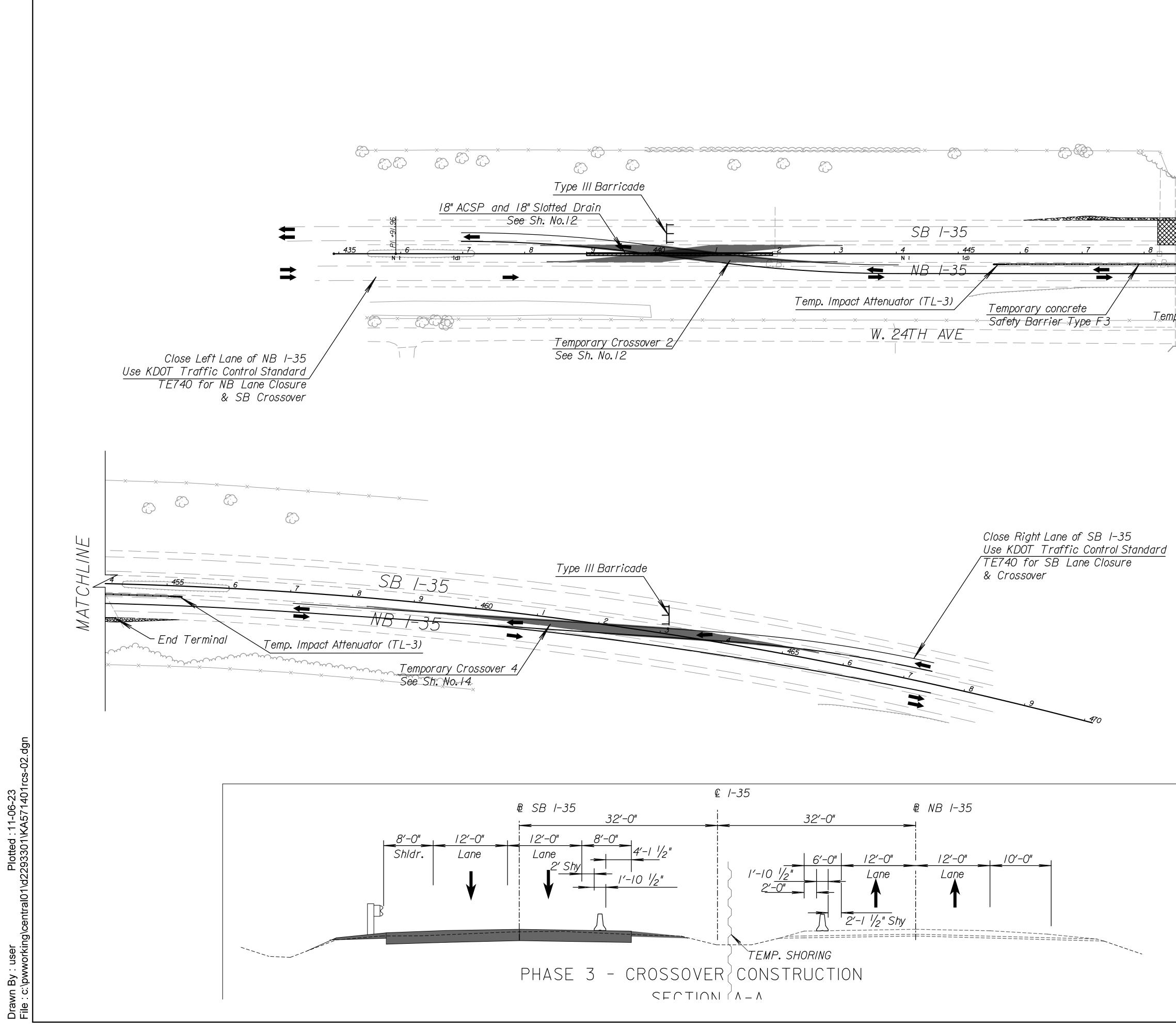
WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF "NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE.

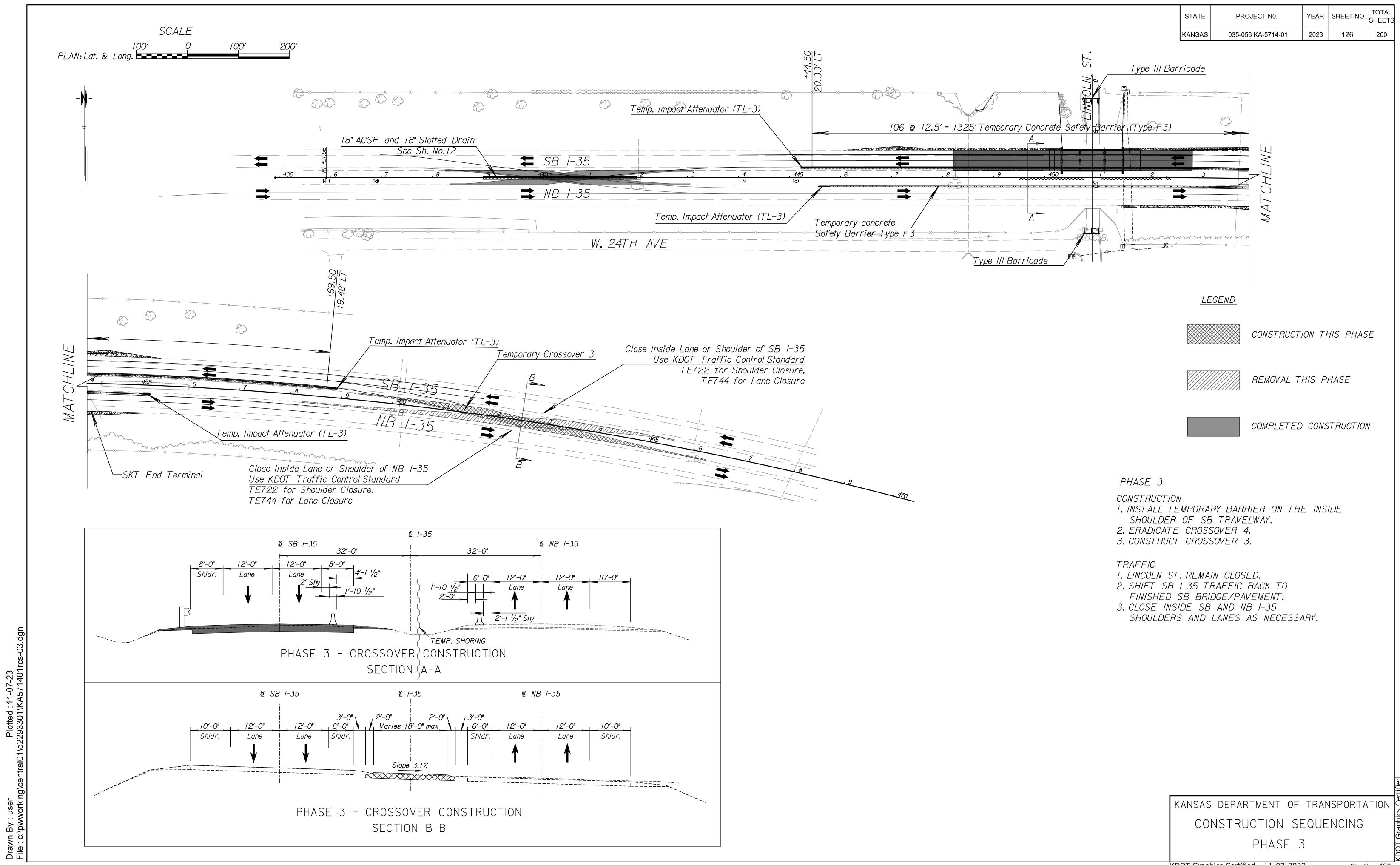
· · · · · ·									
2	5/25/1	12	Ac	lded Line Types	, Symbols,	and Shields	B.A.	н.	B.D.G.
1	7/26/0	05		New FHWA	Approval	Date	J.F.	F.	B.D.G.
NO.	DATE			REV	ISIONS/		BY		APP'D
TE3	11		MARY OF PA	AND R VEMEI QUAN ⁻	RECA NT M TITI		TION G		- - - -
FHWA APP				5/25/2012	APP'D	Brian D. Gower			ł
DESIGNED		J.F.F.	DETAILED	J.F.F.	QUANTI		TRACED		(
DESIGN C	К.	B.D.G.	DETAIL CK.	B.D.G.	QUAN. C	Κ.	TRACE CK.		
KDOT	Г Grap	hics	s Certifie	ed 07-1	7-201	18	Sh.	No.	123



Sh. No. <u>124</u>



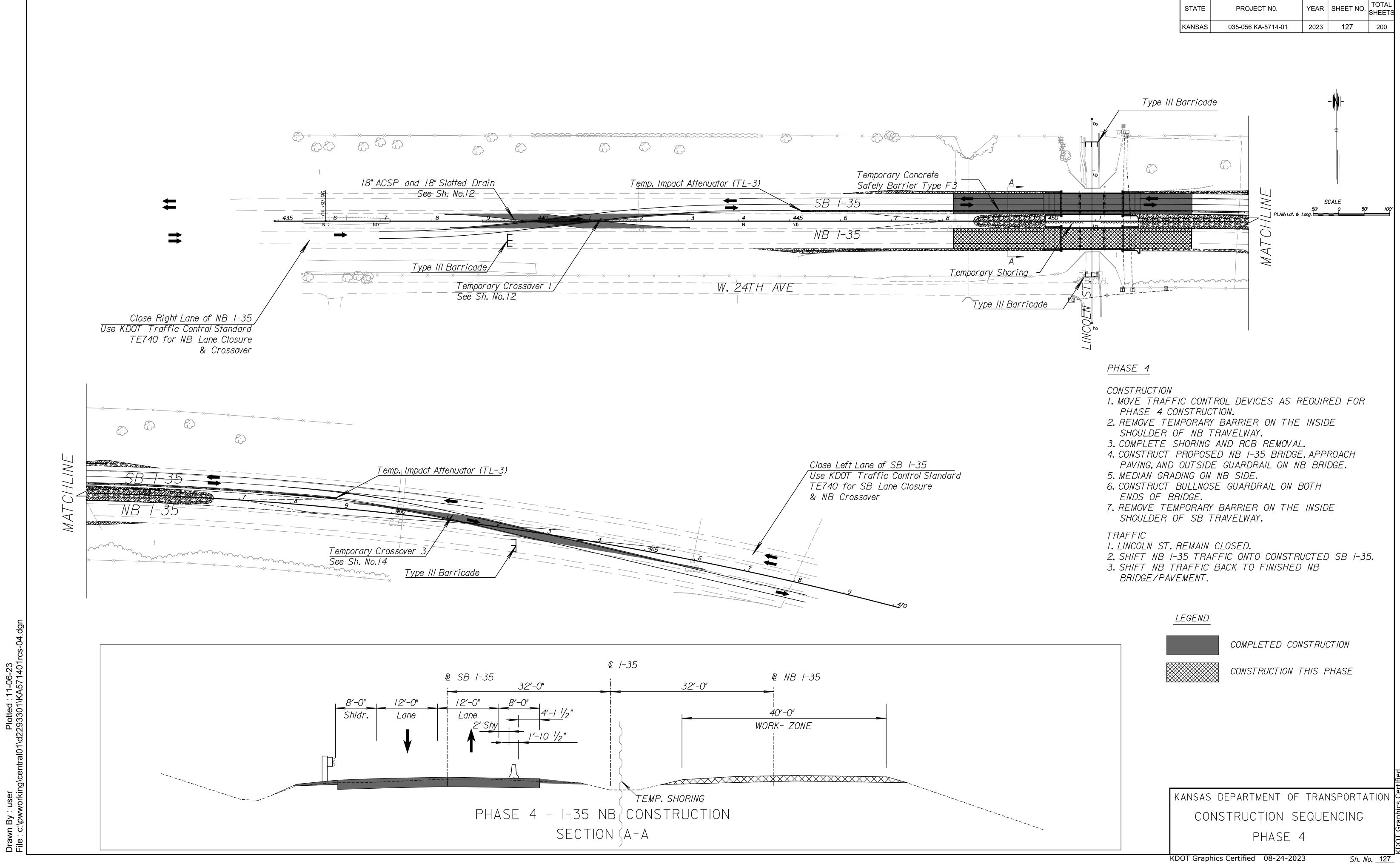
	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
	KANSAS	035-056 KA-5714-01	2023	125	200
A A A Boorary Shoring Type III Barricade		PLAN: Lot. &		$- -$ \pm $ $ $CALE$ $0 50^{\circ}$, <u>100</u>
<u>PHASE 2</u> CONSTRUCTION I. INSTALL TEM 2. CONSTRUCT PAVING, AND 3. MEDIAN GRA TRAFFIC I. CLOSE LINCO SEE DET	PROPOS D OUTSI DING ON LN ST. OUR SH	AND SIDEWALK NOR	T, APP SB E	ROACH, BRIDGE. - I-35,	
		CONSTRUCTION T COMPLETED CON DEPARTMENT OF NSTRUCTION SE	TRAN	CTION NSPORTA	TION
' /		PHASE 2			
KI	UUI Grapt	nics Certified 11-06-202	٢	Sh. N	o. <u>125</u>



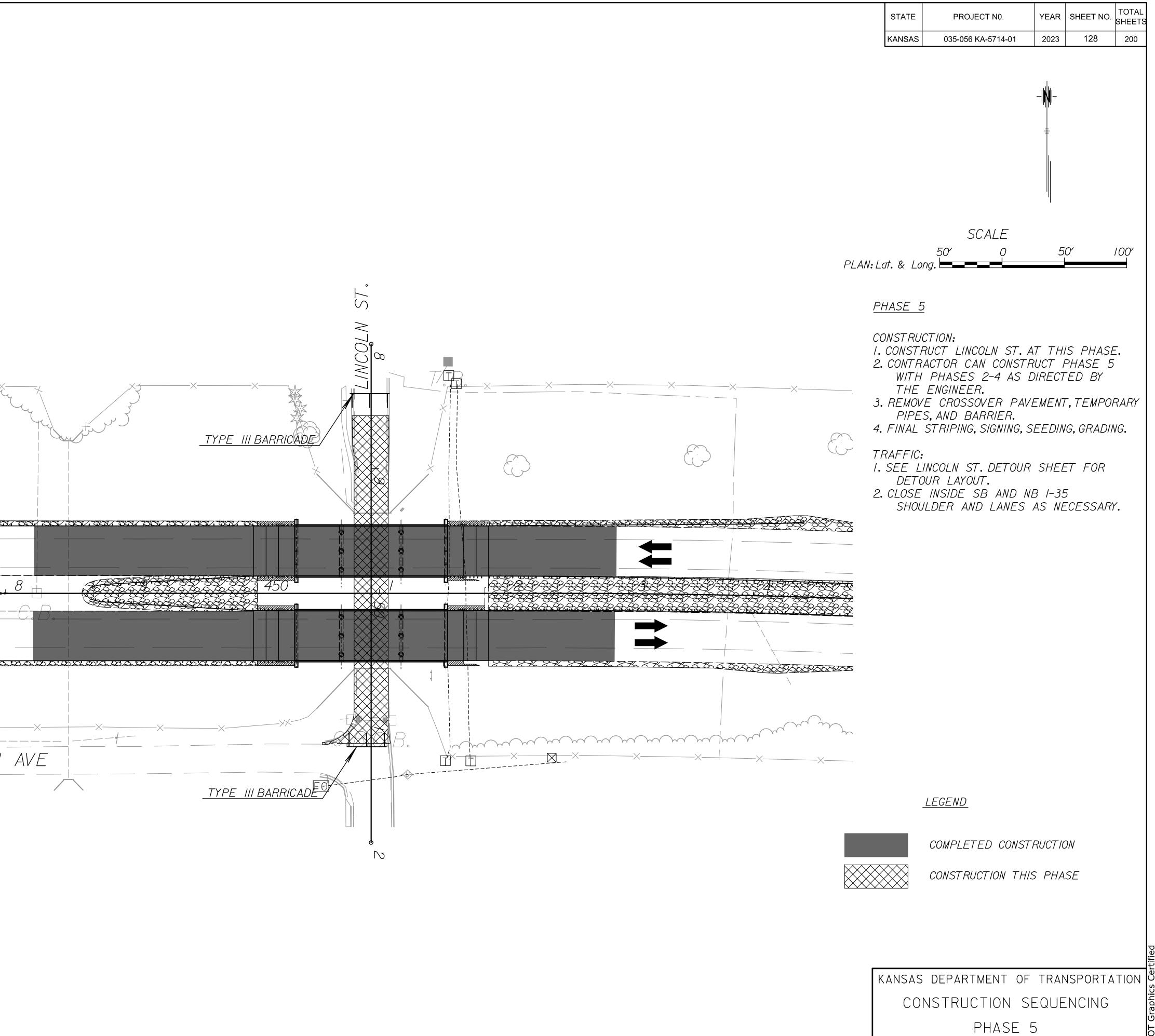
v user wworkir ∫ By

KDOT Graphics Certified 11-07-2023

Sh. No. <u>126</u>



	A	X	X	X		X
	445		/-35 6			
		NB /	-35			
				BB BISE STAD		
> 	<	-X	—X	-X	-X	× W. 2



KDOT Graphics Certified 08-22-2023

