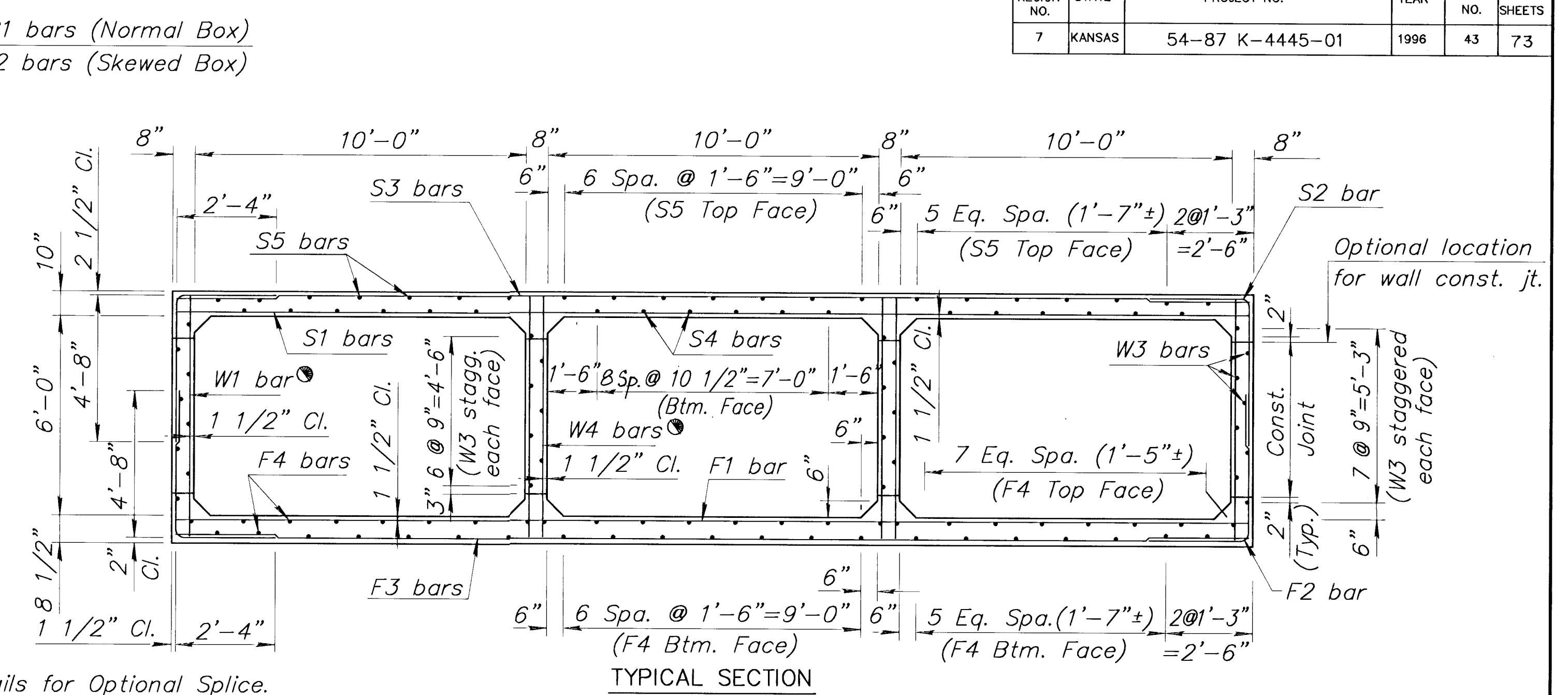
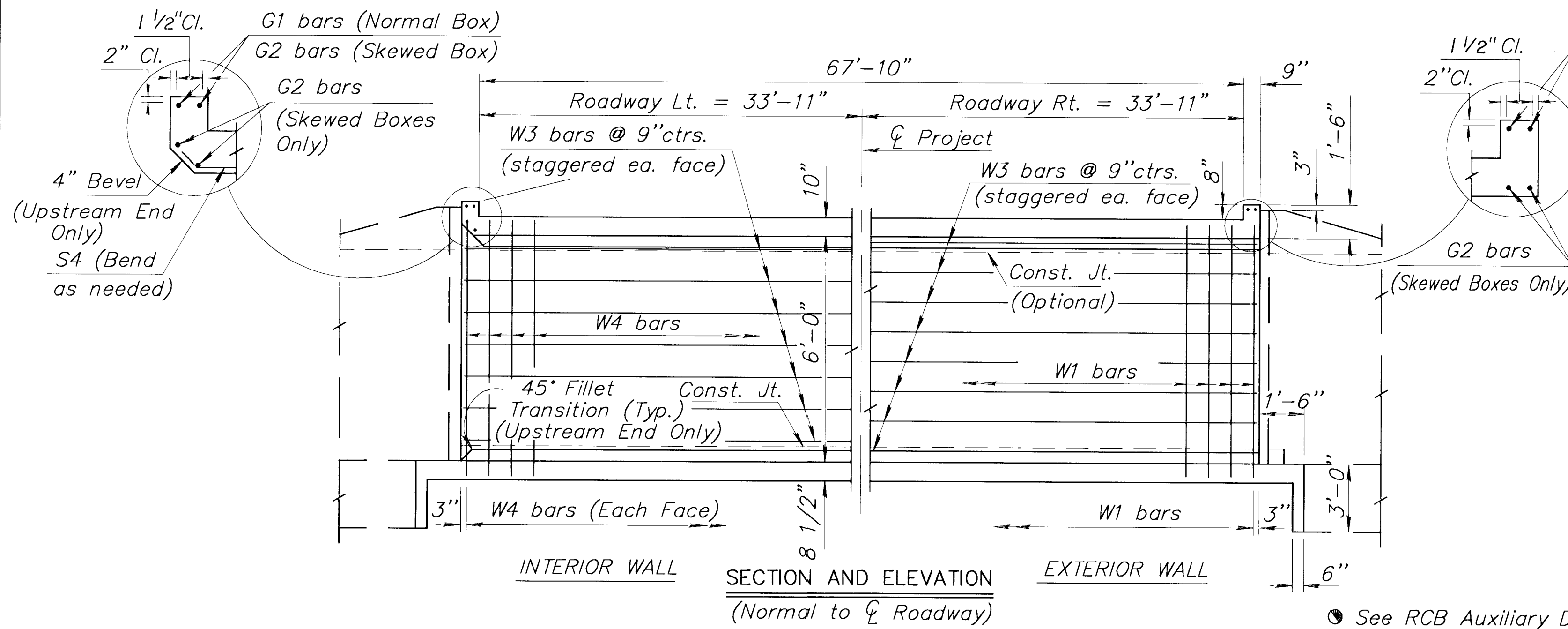


VERSION: 5.0.0 COMPILED: 9/01/94

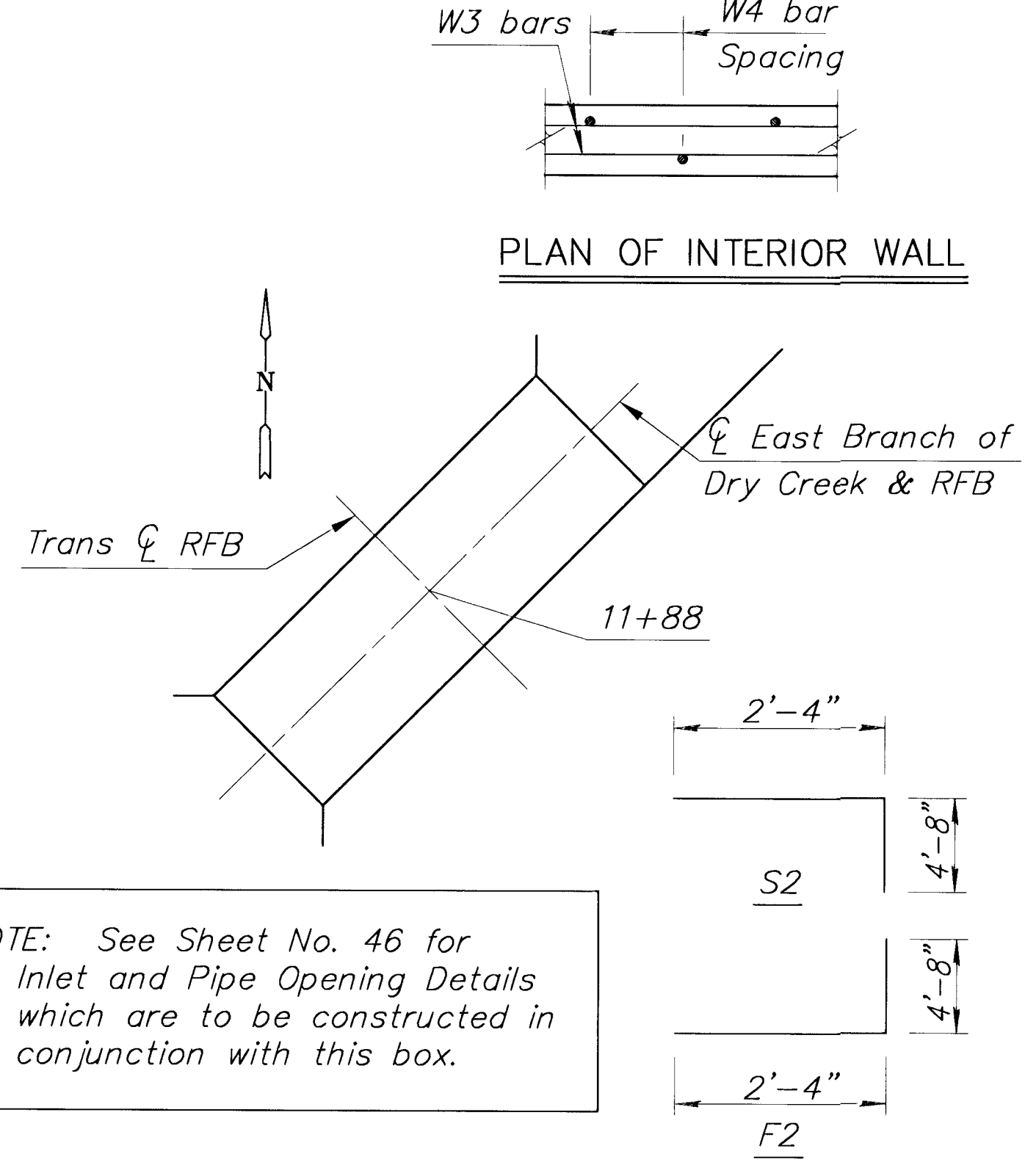
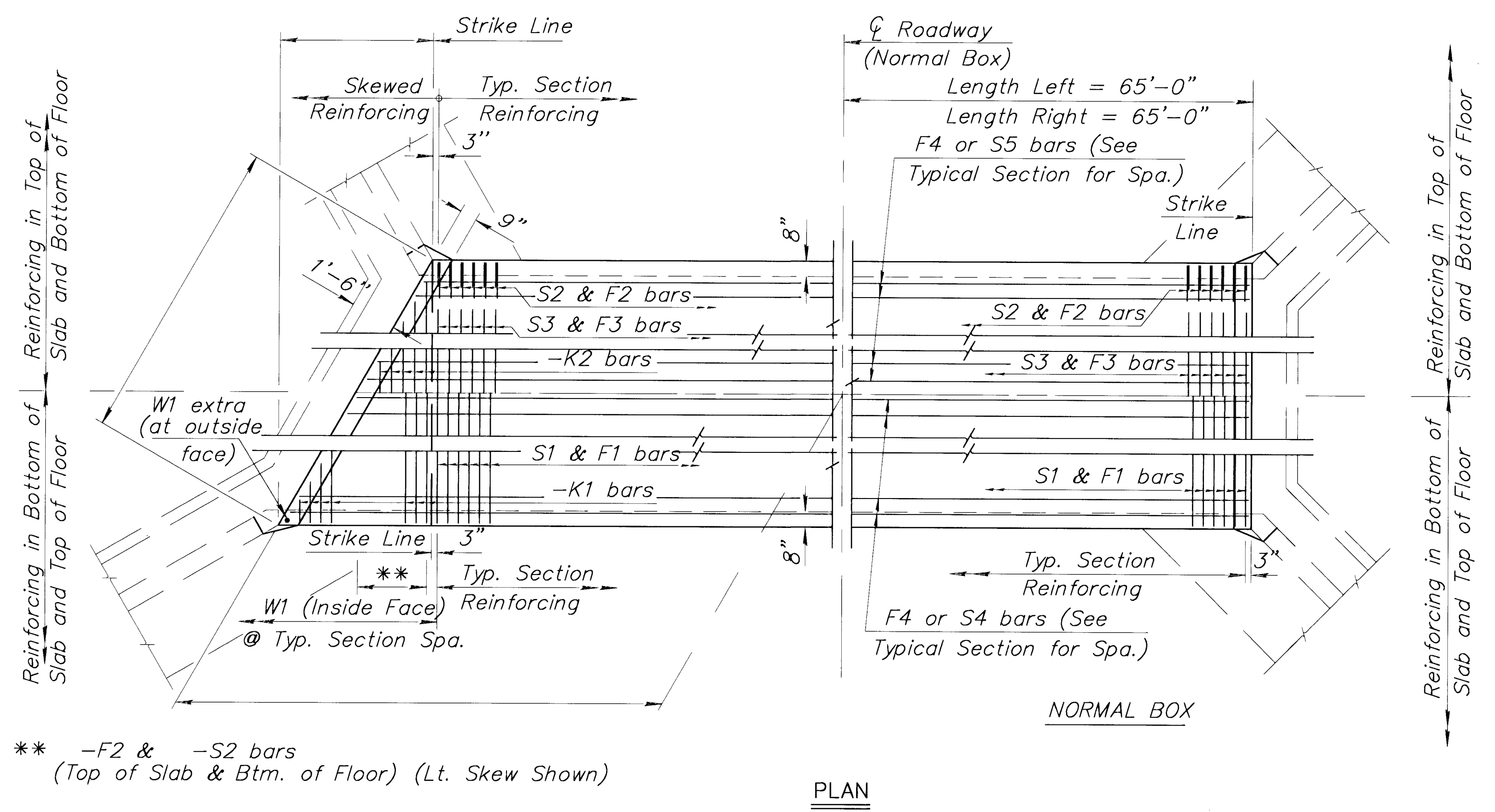
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	54-87 K-4445-01	1996	43	73



See RCB Auxiliary Details for Optional Splice.

GENERAL NOTES

- LOADING:** HS20-44 AASHTO Specifications, 1983 Edition.
- UNIT STRESSES:** Class AAA Concrete; $f_c = 4,000$ p.s.i. Reinforcing Steel; $f_y = 60,000$ p.s.i.
- FILL HEIGHT:** Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and shall include the surfacing.
- CONCRETE:** Class AAA Concrete shall be used throughout. Bevel all exposed edges with a 3/4" triangular mauling. Where Class AAA Concrete (AE) is specified, it shall be placed in the top slab above the Construction Joint.
- REINFORCING:** All reinforcing shall conform to ASTM A615, Grade 60. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.
- EXCAVATION:** Excavation for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Class AAA Concrete. Excavation for RCB Bridges shall be paid for as Class III Excavation.
- SEAL COURSE:** A Seal Course may be required by the Engineer. The Seal Course shall be unreinforced Concrete (Commercial Grade) to a minimum depth of 3 inches or as determined by the Engineer. Concrete for the seal course shall be paid for at the unit price of Class AAA Concrete.
- FOUNDATION STABILIZATION:** Foundation Stabilization may be required as directed by the Engineer. The depth of Foundation Stabilization shall be determined by the Engineer. Foundation Stabilization shall be paid for at the determined Unit Price set for Foundation Stabilization. See Auxiliary Details.
- QUANTITIES:** The quantities shown in the Culvert Summary include apron and/or soil saver quantities when their construction is required by the plans. Payment for additional quantities that result from including seal course and/or floating apron, as a change in original plans, shall be made at the Unit Price bid for the various items involved.
- GRANULAR BACKFILL (WINGWALLS):** Special backfill procedures may be required at the direction of the Engineer. See Auxiliary Details Sheet.
- STRIKE LINE:** Wingwalls and that portion of the RCB outside the Strike Line shall be constructed level. Footing for wingwalls shall be constructed with the culvert floor. See wingwall detail sheet.



NOTE: See Sheet No. 46 for Inlet and Pipe Opening Details which are to be constructed in conjunction with this box.

BENDING DIAGRAMS

All dimensions are out to out of bars.

Minimum Splice Lengths		
#4	1'-4"	
#5	1'-8"	
#6	2'-0"	

SUMMARY OF QUANTITIES

Class AAA Concrete	357.4 C.Y.
Class AAA Concrete †	48.8 C.Y.
Class III Excavation	1,317 C.Y.
Reinforcing Steel (Gr. 60)	70,870 Lbs.
Reinforcing Steel (Epoxy Coated)	0 Lbs.
Foundation Stabilization (Set)	195 C.Y.
Granular Backfill (Wingwalls) (Set)	57 C.Y.

CULVERT SUMMARY															
Flow Line Elev. Lt.	Flow Line Elev. Rt.	Crown Gr. Elev.	Design Fill Ht.	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete			Reinf. Steel (Gr. 60)		
										Barrel (Cu. Yds.)	Wings (Cu. Yds.)	Total (Cu. Yds.)	Barrel (Lbs.)	Wings (Lbs.)	Total (Lbs.)
1329.50	1329.38	1337.23	2 ft.	0°	FLARED	SPECIAL	NO	NO	NO	327.9	29.5	357.4	68,490	2,380	70,870

*See Bending Diagram

BAR SCHEDULE																																																
F1				F2 *				F3				F4				S1				S2 *				S3				S4				S5																
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length									
4	5 1/2"	284	32'-4"	5	5 1/2"	568	7'-0"	6	5 1/2"	284	32'-4"	4	180	33'-5"	5	5 1/2"	284	32'-4"	5	5 1/2"	568	7'-0"	6	5 1/2"	284	32'-4"	4	108	33'-5"	4	84	33'-5"																
K1				K2				W1				W2				W3				W4				G1				G2				S6																
-	-	-	*	-	-	-	*	4	11"	284	7'-3"	-	-	-	-	4	120	33'-5"	5	11"	568	7'-3"	5	4	32'-4"	-	-	-	-	7	-	-	-	4	14'-0"													

KANSAS DEPARTMENT OF TRANSPORTATION
STA. 57+50.28
TRIPLE 10' x 6' RFB (Pincrest)
(45° ROTATION LT.)

Std. No. 310-06F SEDGWICK CO.
FHWA APPROVAL 6-5-91 APP'D KENNETH F. HURST
DESIGNED DETAILED QUANTITIES TRACED
DESIGN CK. DETAIL CK. QUAN. CK. TRACE CK.

PROJ.	DESIGN	DATE	DATE	DATE	DATE

Drawn By : \$\$\$USERNAME\$\$\$
DGN File : \$\$\$DGN\$\$\$
Plotted : \$\$\$SYTIME\$\$\$