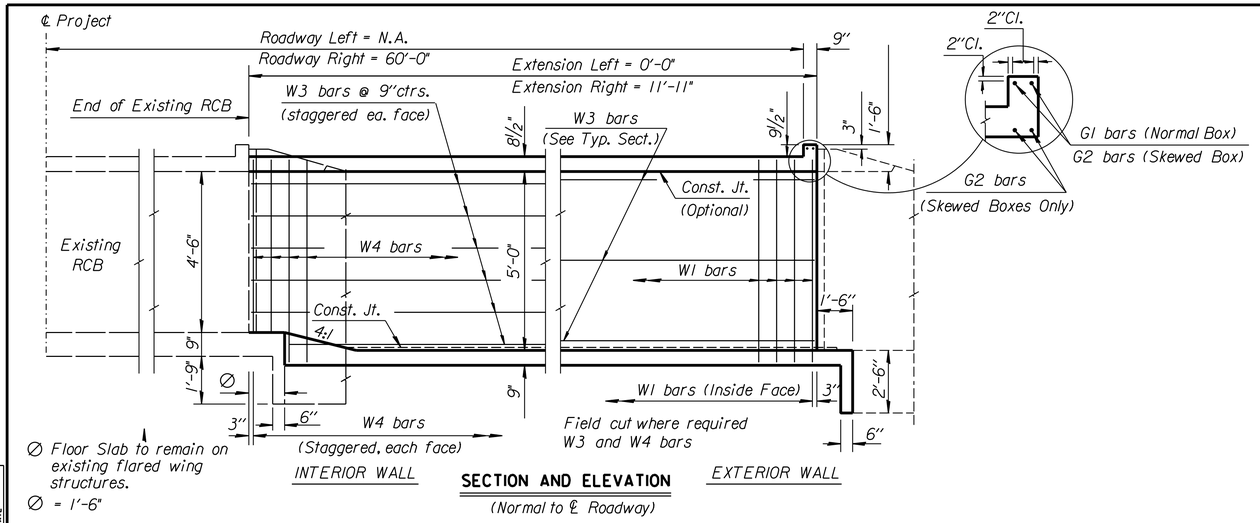
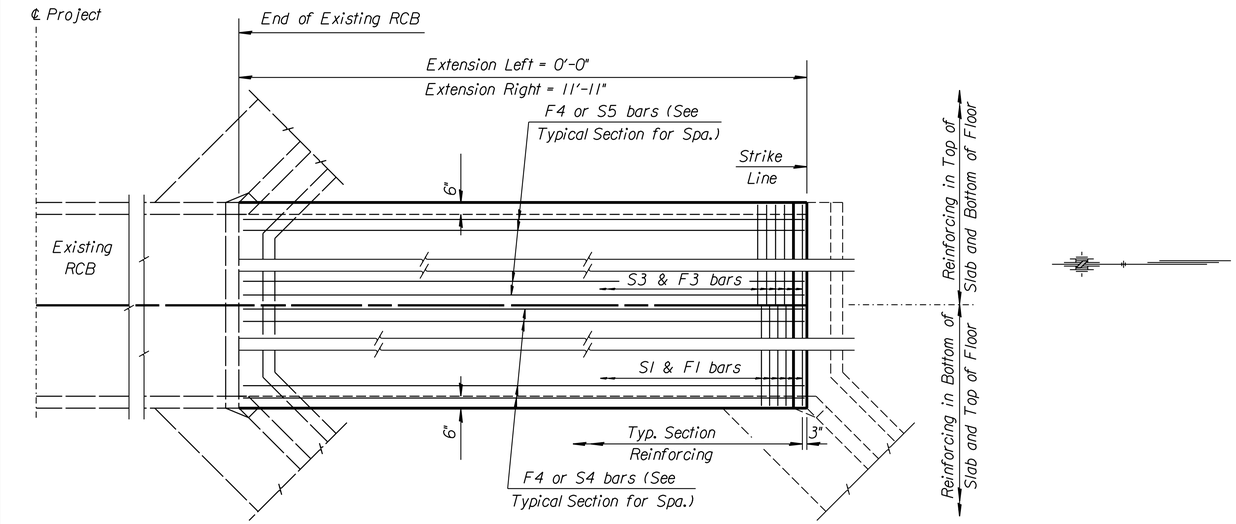
VERSION: 5.1.0 COMPILED: 03/01/95

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	468-83775	2004	22	31



SECTION AND ELEVATION
(Normal to ℄ Roadway)

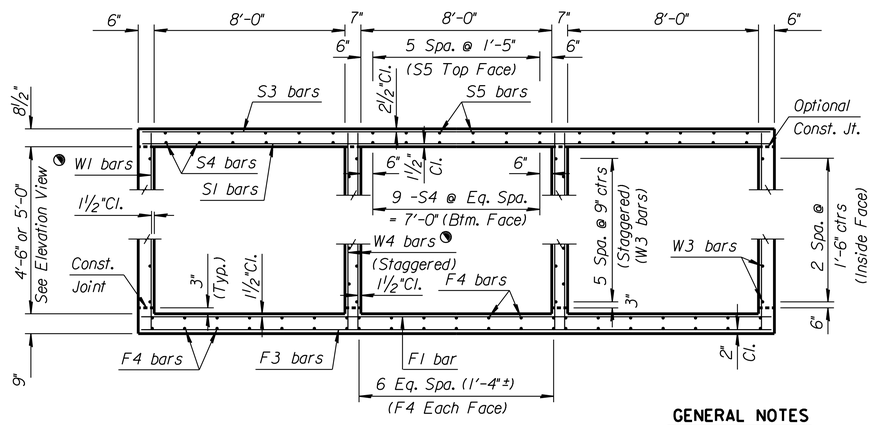


The existing RCB shall be cleaned of siltation and the floor inspected by the Engineer prior to authorizing extending to the limits shown.

PLAN

See RCB Auxillary Details for Optional Splice.
See Standard No. 80 for additional details.

Note: Use only cast-in-place construction at this location.

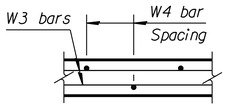


TYPICAL SECTION

GENERAL NOTES

LOADING: HS20-44 AASHTO Specifications, 1983 Edition.
UNIT STRESSES: Class AAA Concrete; f'c = 4,000 p.s.i.
Reinforcing Steel; fy = 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 (AE) shall be used throughout. Bevel all exposed edges with a ¾inch triangular moulding.

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 shall not be paid for directly but shall be subsidiary to Class AAA Concrete.
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.
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.
PAYMENT: "R.C. HEADWALL B" shall be bid as a lump sum which shall include all labor, material, excavation, concrete, reinforcing steel, drilling and grouting, seal course, backfill, flowable fill, RCB Plug and all other incidentals necessary to complete the work. Quantities are for information only.



PLAN OF INTERIOR WALL

CULVERT SUMMARY

	Flow Line Elev.	Crown Gr. Elev.	Design Fill Ht.	Skew	Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete Barrel (Cu.Yds.)	Concrete Wings (Cu.Yds.)	Concrete Total (Cu.Yds.)	Reinf. Steel (Gr. 60) Barrel (Lbs.)	Reinf. Steel (Gr. 60) Wings (Lbs.)	Reinf. Steel (Gr. 60) Total (Lbs.)
Ext.Lt.														
Ext.Rt.	168.35	176.27	2	0	FLARED	NO	NO	NO	21.49	4.87	26.36	4,280.3	401.8	4,682.1

BAR SCHEDULE

	F1 Size	F1 Spa.	F1 No.	F1 Length	F3 Size	F3 Spa.	F3 No.	F3 Length	F4 Size	F4 No.	F4 Length	S1 Size	S1 Spa.	S1 No.	S1 Length	S3 Size	S3 Spa.	S3 No.	S3 Length	S4 Size	S4 No.	S4 Length	S5 Size	S5 No.	S5 Length
Ext.Lt.					-	-	-	-								-	-	-	-						
Ext.Rt.	6	6½"	21	25'-10"	-	-	-	-	5	6"	24	25'-10"	4	42	10'-1"	6	6½"	24	25'-10"	-	-	-	-	5	6"	25	25'-10"	5	27	11'-5"	4	18	11'-5"

	K1 Size	K1 Spa.	K1 No.	K1 Length	K2 Size	K2 Spa.	K2 No.	K2 Length	W1 Size	W1 Spa.	W1 No.	W1 Length	W3 Size	W3 No.	W3 Length	W4 Size	W4 Spa.	W4 No.	W4 Length	G1 Size	G1 No.	G1 Length
Ext.Lt.	-	-	-		-	-	-									-	-	-	-			
Ext.Rt.	-	-	-	*	-	-	-	*	4	9"	32	6'-2"	-	-	-	4	18	11'-6"	4	9"	32	6'-2"	5	2	25'-10"

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

SUMMARY OF QUANTITIES		
Class AAA Concrete	-----	C.Y.
Class AAA Concrete (AE)	26.4	C.Y.
Reinforcing Steel (Gr. 60)	4,680	Lbs.
Reinforcing Steel (Epoxy Coated)	-----	Lbs.
Class III Excavation	56	C.Y.

NOTE: See Sht. No. 17 for RCB Plug details.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
Str. No. 614-33-4506 Sta. 122+40.37
TRIPLE 8'-0" x 5'-0" RCB
11'-11" EXT. RT.
(HEADWALL B)
~~BR 3.08.05~~ SEDGWICK CO.

FHWA APPROVAL	6-5-91	APP'D	KENNETH F. HURST
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.

DRIG. FROM BR.NO.	DESIGN
DESIGN	DATE
DETAIL	DATE
QUANTITIES	DATE
DESIGN CK.	DATE
RETRACED	DATE

CO.	CHECK	DATE
		DATE
		DATE
		DATE
		DATE

Drawn By : KDOT/RAS
DGN File : i:2004/04106/newplans/3-8x5rcb.dgn
Plotted : ras 3-11-2004 View=