



Note: Precast Concrete Box Culverts will be allowed.
RCB to be bid by the Linear Foot. All labor, equipment and material required shall be subsidiary.

- See RCB Auxillary Details for Optional Splice. Note: S3 bars omitted unless grade box or slab thickness is greater than or equal to 12".
- Note: F3 bars omitted unless floor thickness is greater than or equal to 12".
- †† Omit S5 bars when S3 bars are omitted and omit the bottom layer of F4 bars when F3 bars are omitted.
- See Standard No. RD 080 for additional details.

GENERAL NOTES

- LOADING:** HS20-44 AASHTO Specifications, 1983 Edition.
- UNIT STRESSES:** Grade 4.0 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:** Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular moulding. Where Grade 4.0 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 shall not be paid for directly but shall be subsidiary to the bid item.
- 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 not be paid for directly but shall be subsidiary to the bid item.
- 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 not be paid directly but shall be subsidiary to the bid item.
- QUANTITIES:** The quantities shown in the Culvert Summary include apron and/or soil saver quantities when their construction is required by the plans.
- GRANULAR BACKFILL (WINGWALLS):** Special backfill procedures may be required at the direction of the Engineer. See Auxiliary Details Sheet.

Plotted By: \$\$\$USERNAME\$\$\$ Plot Location: \$UNIT\$
File: \$\$\$DGN\$\$\$SPEC\$\$\$SYTIME\$\$\$

CULVERT SUMMARY													
Ext. Lt.	Flow Line Elev.	Crown Gr. Elev.	Design Fill Ht.	Skew	Wings	Scour Apron	Soil Saver	Concrete			Reinf. Steel (Gr. 60)		
								Barrel (Cu.Yds.)	Wings (Cu.Yds.)	Total (Cu.Yds.)	Barrel (Lbs.)	Wings (Lbs.)	Total (Lbs.)
Ext. Lt.	136.03	144.00	5	0	NONE	NO	NO	0.00	0.00	0.00	0	0	0
Ext. Rt.	136.10				NONE			6.53	0.00	6.53	580	0	580

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

BAR SCHEDULE																															
		F1				F3				F4				S1				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		
Ext. Lt.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Ext. Rt.	5	7 1/2"	23	6'-8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	5	12'-8"	5	7 1/2"	23	6'-8"	N/A	N/A	N/A	N/A	N/A	N/A	4	5	12'-8"	N/A	N/A	N/A

FOR INFORMATION ONLY	
Concrete (Grade 4.0)	6.5 C.Y.
Concrete (Grade 4.0)(AE)	0.0 C.Y.
Reinforcing Steel (Gr. 60)	580 Lbs.
Reinforcing Steel (Epoxy Coated)	0 Lbs.
Class III Excavation	Subsidiary
Foundation Stabilization	Subsidiary
Concrete for Seal Course	Subsidiary
Granular Backfill (Wingwalls)	Subsidiary

NO.	DATE	REVISIONS	BY	APPD
KANSAS DEPARTMENT OF TRANSPORTATION				
Sta. 21+52.50 SINGLE 6 ft x 4 ft RCB				
Sedgwick Co.				
DESIGNED	6-5-91	APPD	KENNETH F. HURS	
DESIGN CK.	DETAIL CK.	QUANTITIES	QUAN. CK.	TRACE CK.