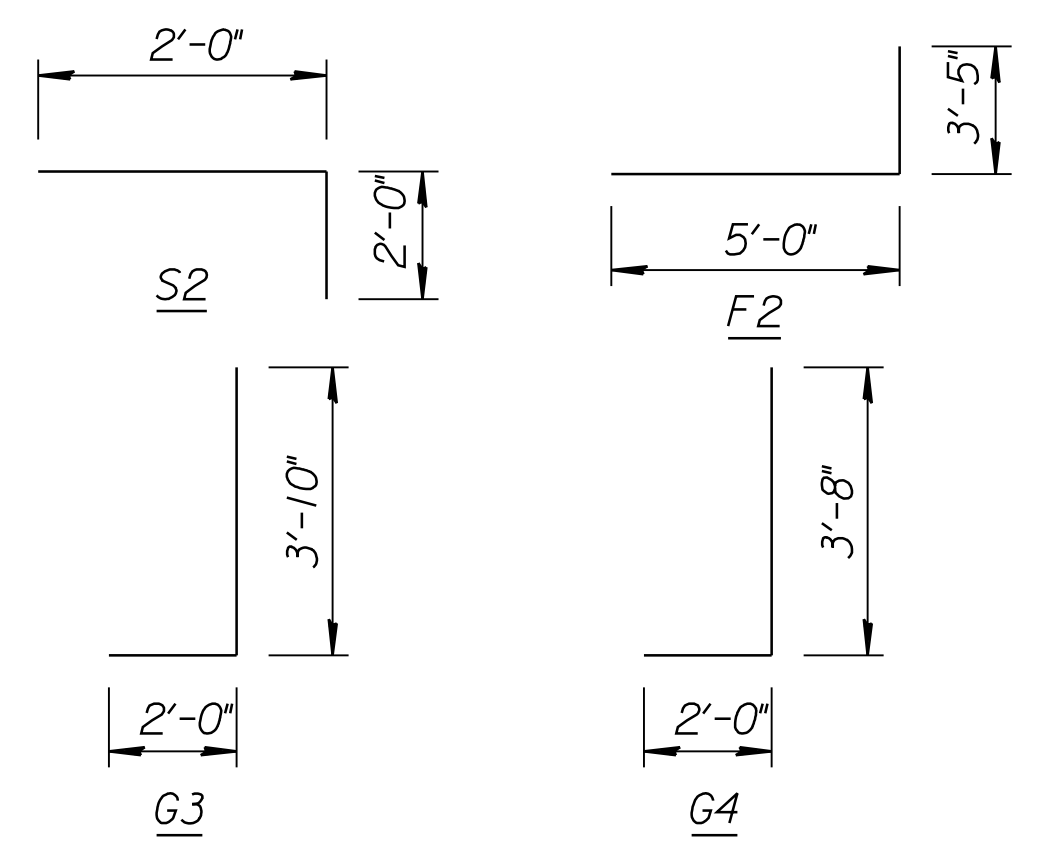


Just left of the Construction Joint, lap F4, S4, S5 & W3 bars to the projected bars from right of the Const. Jt. with the minimum splice length corresponding to the bar size.

- See RCB Auxiliary Details for Optional Splice.
- † Place when S3 bar extends to exterior walls.
- †† Place when F3 bar extends to exterior walls.



LOADING: HS20-44 AASHTO Specifications, 1983 Edition.

UNIT STRESSES: Grade 4.0 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: 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 for culverts less than bridge length shall not be paid for directly but shall be subsidiary to Grade 4.0 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 set for Concrete for Seal Course.

FOUNDATION STABILIZATION: The Foundation Stabilization quantity has been calculated to the limits shown on the "RCB Auxiliary Details" sheet. The depth may be increased by the Engineer. The Contractor may under-run Foundation Stabilization under the barrel if founded on firm material and with the Engineer's approval. Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

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.

#4	1'-4"
#5	1'-8"
#6	2'-0"

Concrete (Grade 4.0)	144.7 C.Y.
Concrete (Grade 4.0)(AE)	80.7 C.Y.
Reinforcing Steel (Gr. 60)	20,450 Lbs.
Reinforcing Steel (Gr. 60)(Epoxy Coated)	16,670 Lbs.
Class III Excavation	172 C.Y.
Foundation Stabilization	59 C.Y.
Bridge Handrail (Metal)(3'-6")	77 L.F.

Floor Elev. Lt.	Floor Elev. Rt.	Crown Gr. Elev.	Design Fill Ht.	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Concrete (Left of Const. Jt.)				Reinf. Steel (Gr. 60) (Left of Const. Jt.)		
									Barrel (Cu.Yds.)	Wings & Parapets (Cu.Yds.)	Soil Saver (Cu.Yds.)	Total (Cu.Yds.)	Barrel (Lbs.)	Wings (Lbs.)	Total (Lbs.)
1322.00	1321.62	1334.17	0	0	FLARED	FLARED	YES-RT.	YES-LT.	168.28	34.92	22.12	225.32	33,678	3,444	37,122

F1		F2 *				F3				F4				Δ S1				Δ S2 *				Δ S3				Δ S4				Δ 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
4	6"	99	38'-4"	6	7"	170	8'-5"	7	7"	85	25'-0"	4	96	25'-3"	6	6"	99	38'-4"	5	7"	170	4'-0"	7	7"	85	38'-4"	4	78	25'-3"	4	54	25'-3"			
W1		W2				W3				W4				Δ G1				Δ G3*				Δ G4*													
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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	1'-0"	100	9'-4"	5	7"	170	7'-4"	4	76	25'-3"	6	1'-0"	200	9'-4"	6	8	38'-4"	6	9"	53	5'-10"	6	9"	53	5'-8"		

NO.	DATE	REVISIONS	BY	APP'D			
KANSAS DEPARTMENT OF TRANSPORTATION BR. NO. 4304008700SBTII S+α, II2+13 TRIPLE 12 ft x 8 ft RFB LEFT OF CONSTRUCTION JOINT BR 312.8 F Sedgwick Co.							
DESIGNED	BS	DETAILED	BS	QUANTITIES	BS	TRACED	BS
DESIGN CK.	AH	DETAIL CK.	AH	QUAN. CK.	SB	TRACE CK.	SB

Plotted By: -
 File: \$\$\$\$\$\$DGN\$SPEC\$
 Plot Date: 11/24/2009