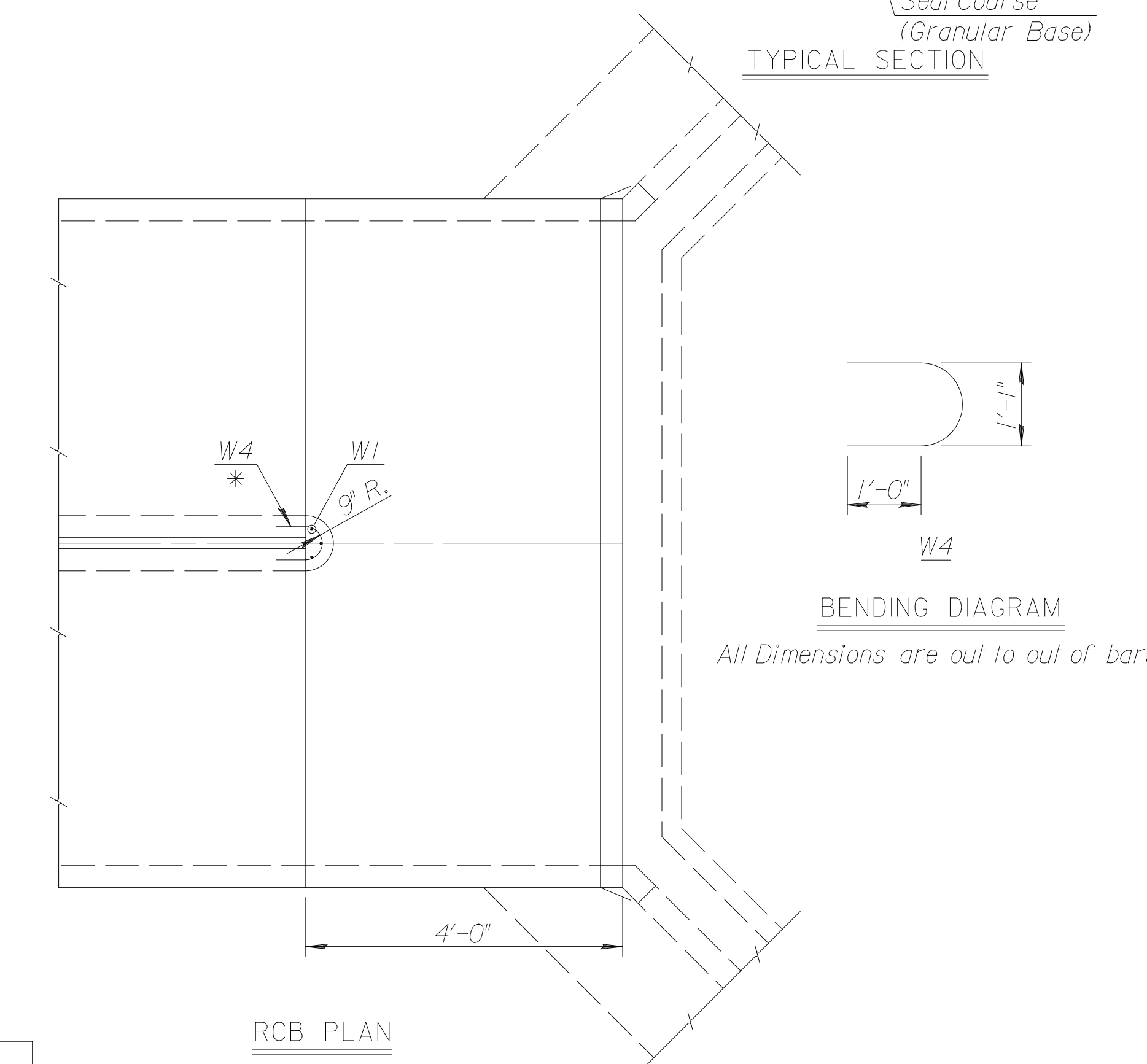
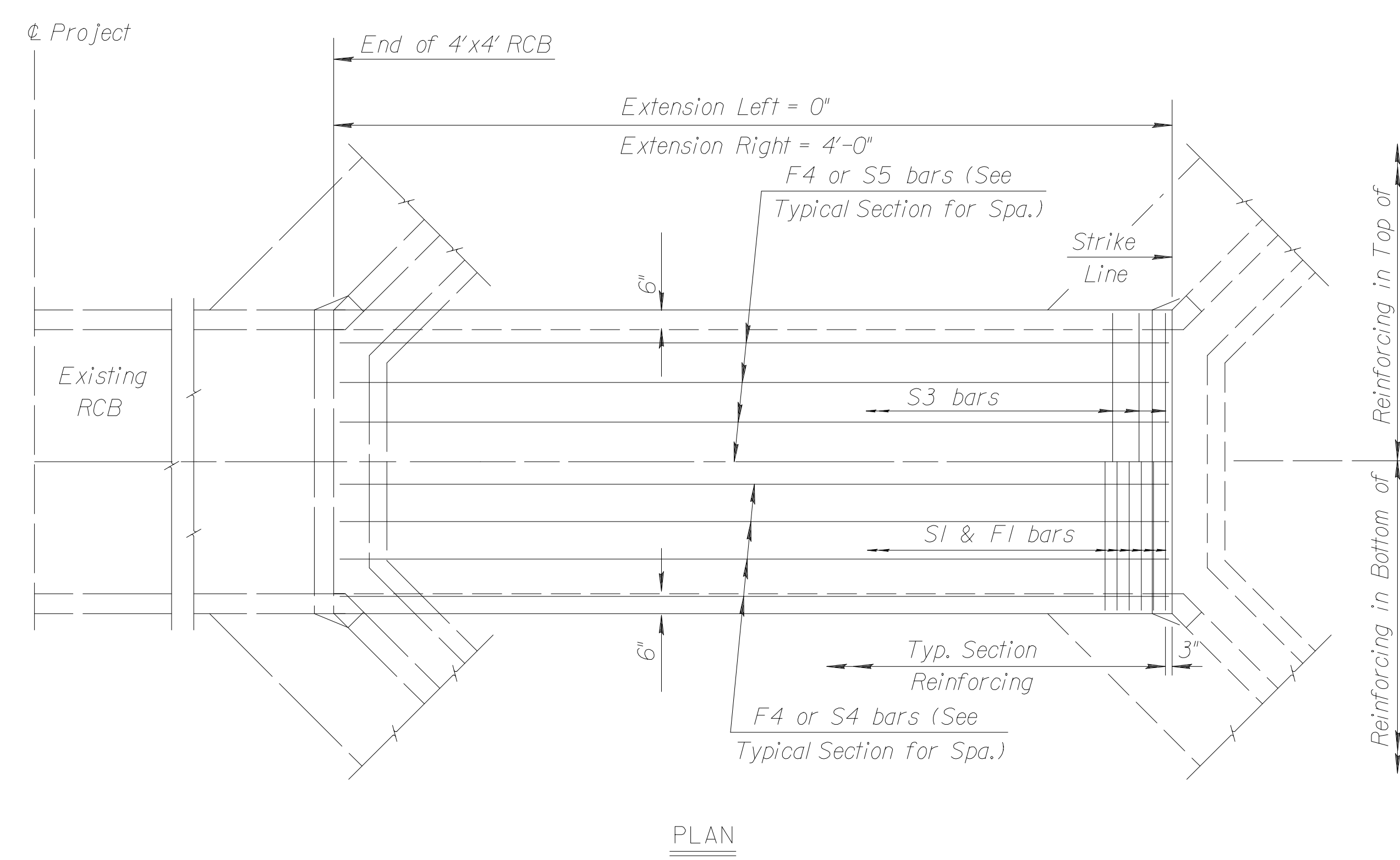
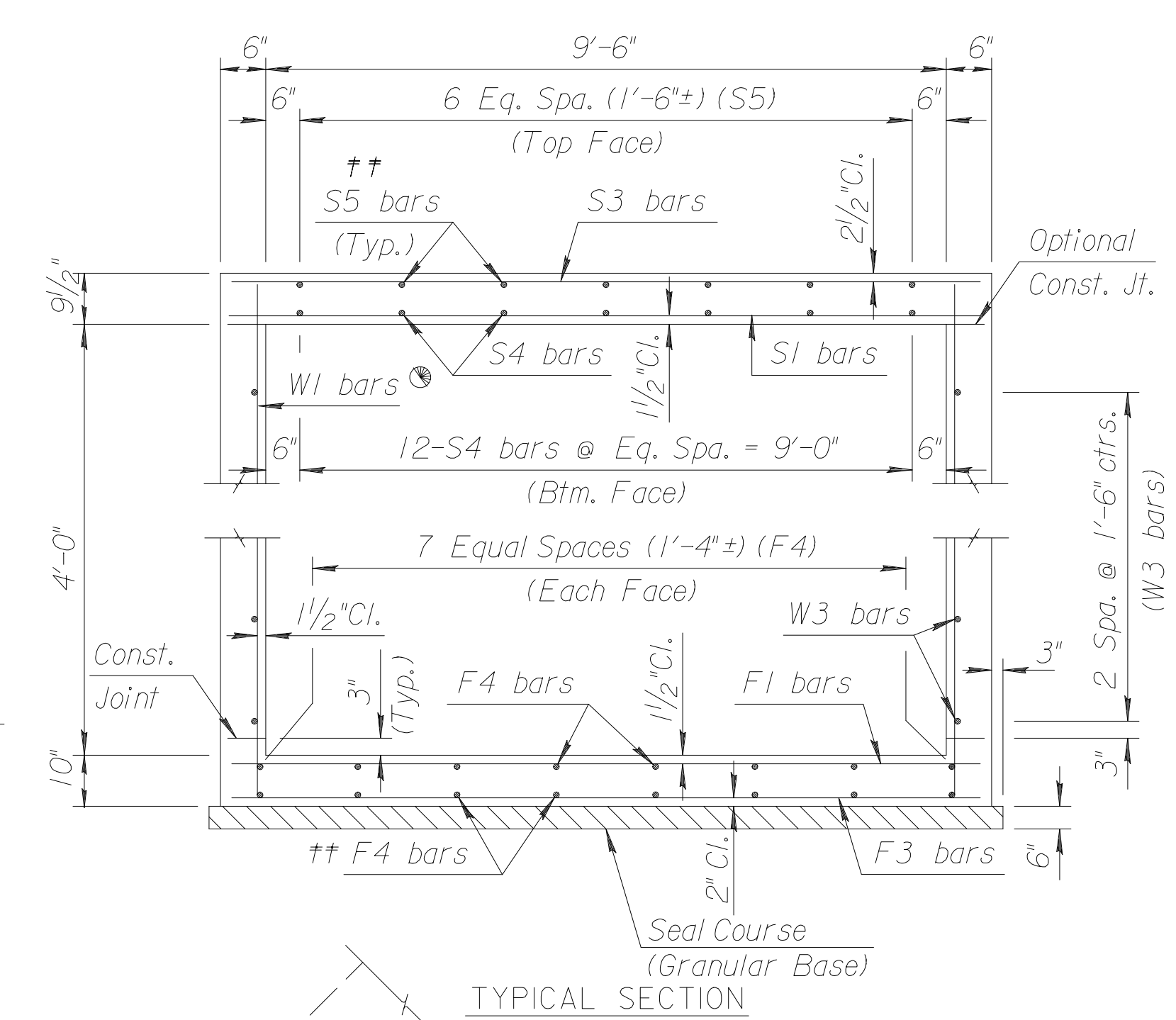
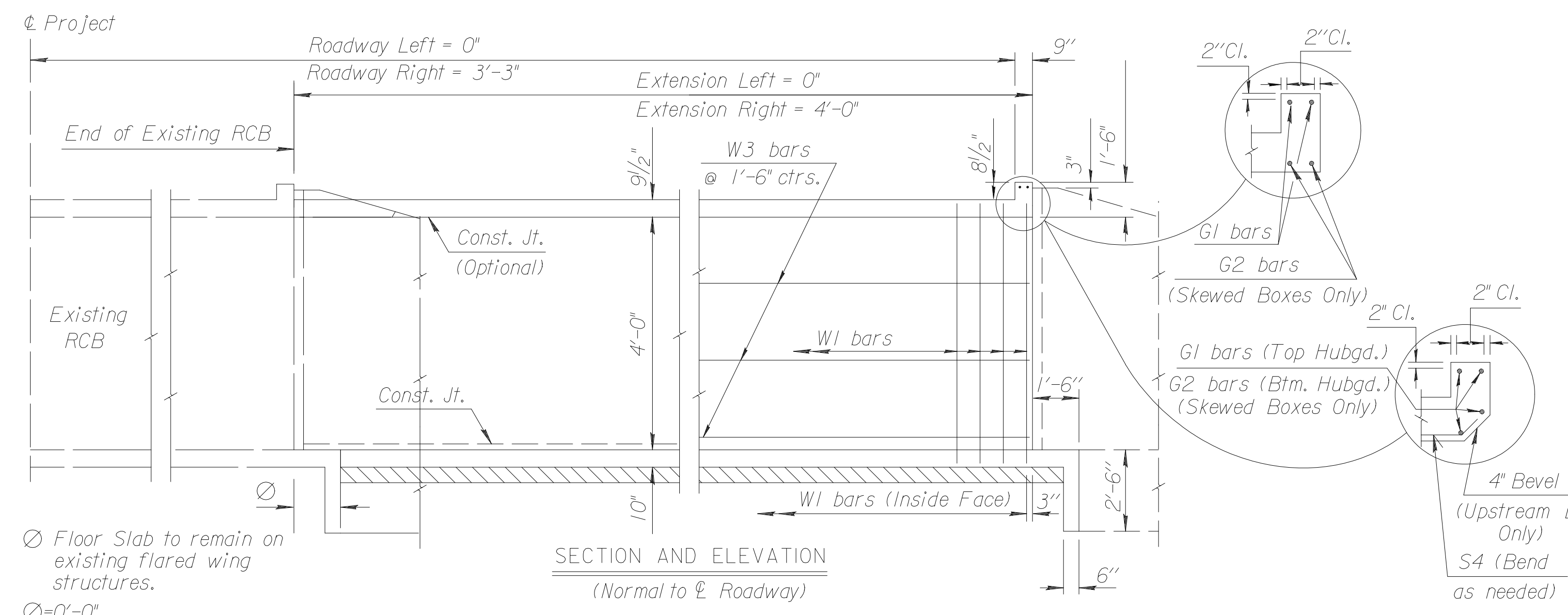


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-84004	2005	95	215



CULVERT SUMMARY												
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. 1359.41	1366.00	2	0	NONE	NO	NO	0.00	0.0	0.00	0	0	0
Ext.Rt. 1359.40				FLARED			3.33	4.94	8.27	579.22	377.87	957.09

BAR SCHEDULE																																																
F1							F3							F4							S1							S3							S4							S5						
Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length	Ext.Lt.	Ext.Rt.	Size	Spa.	No.	Length							
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	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.Lt.	Ext.Rt.	6	5"	14	10'-2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	8	3'-8"	6	5"	14	10'-2"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	12	3'-8"	N/A	N/A	N/A						

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

SUMMARY OF QUANTITIES	
Concrete (Grade 4.0)	0.0 C.Y.
Concrete (Grade 4.0)(AE)	8.3 C.Y.
Reinforcing Steel (Gr. 60)	0 Lbs.
Reinforcing Steel (Epoxy Coated)	960 Lbs.
Class III Excavation	— C.Y.
Bridge Handrail (Steel) (Pedestrian)	30.0 L.F.
Seal Course (Granular Base)	1.5 C.Y.

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.
 Note: Use only Cast-in-Place construction at this point only.

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 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 shall be constructed below the R.C.B. as shown in the Plans. The Seal Course shall consist of a 6" of crushed rock conforming to ASTM C-33, Gradation No. 67, and shall meet the requirements for Portland Cement Concrete Pavement Coarse Aggregate, Section 406.2, City of Wichita Standard Specifications, Wichita Standard Specifications. No reinforcing shall be placed until the Seal Course has gained sufficient strength to permit working upon it without injury.
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.

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
S+4. 72+53.25				
SINGLE 9 ft 6 in x 4 ft RCB				
4.0 ft EXT. RT.				
BR 110.4 P				Sedgwick Co.
DESIGNED	DATE	6-5-91	APP'D	KENNETH F. HURST
DESIGN CK.	DETAIL CK.	QUANTITIES	QUAN. CK.	TRACED
				TRACE CK.

Plotted By: drp
 Plot Location: \$UNIT\$
 File: i:\2004\04219\FINAL\04219-000_C-StormOutfall\KIN71.dgn
 Plot Date: 9-27-2005