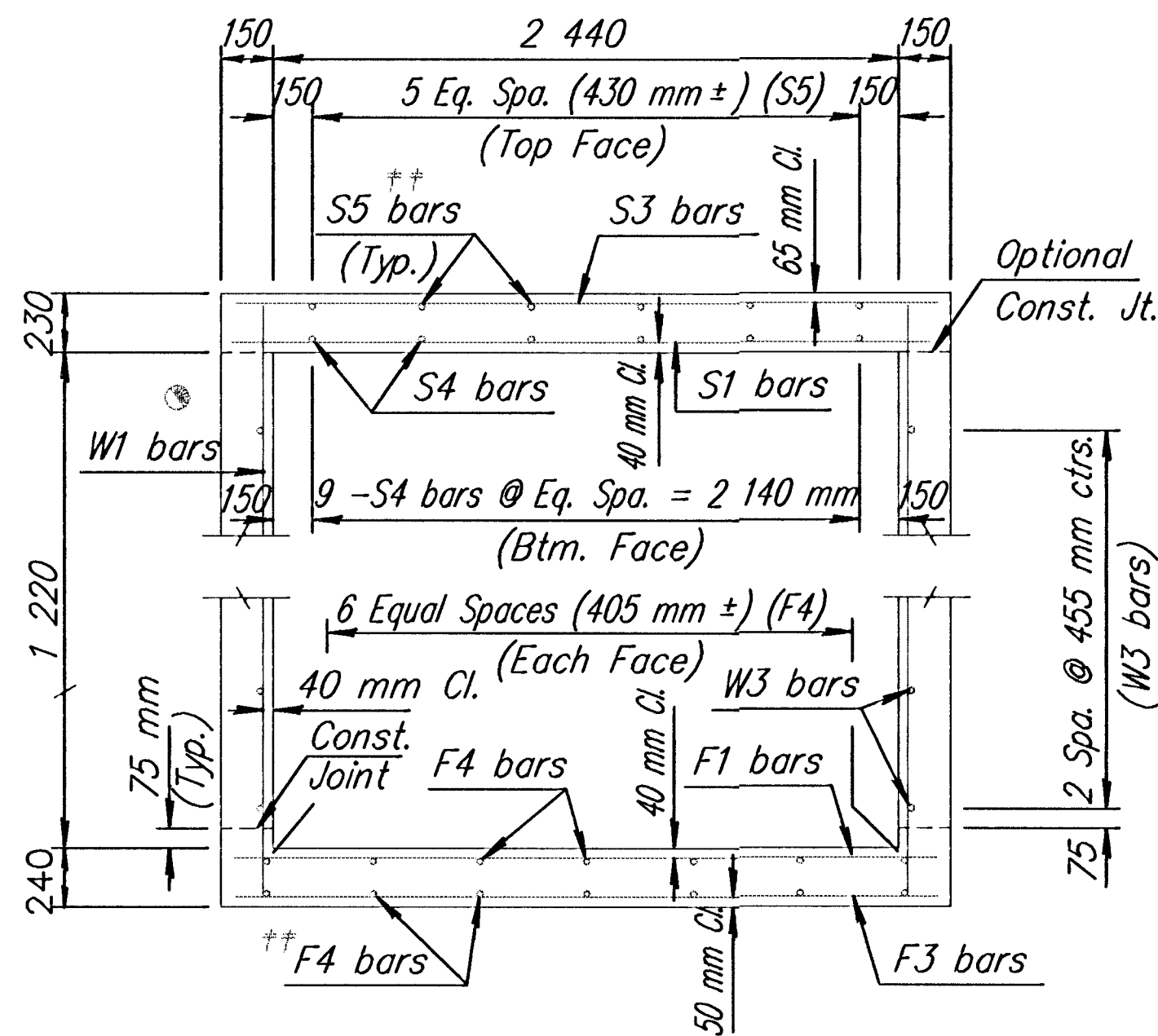
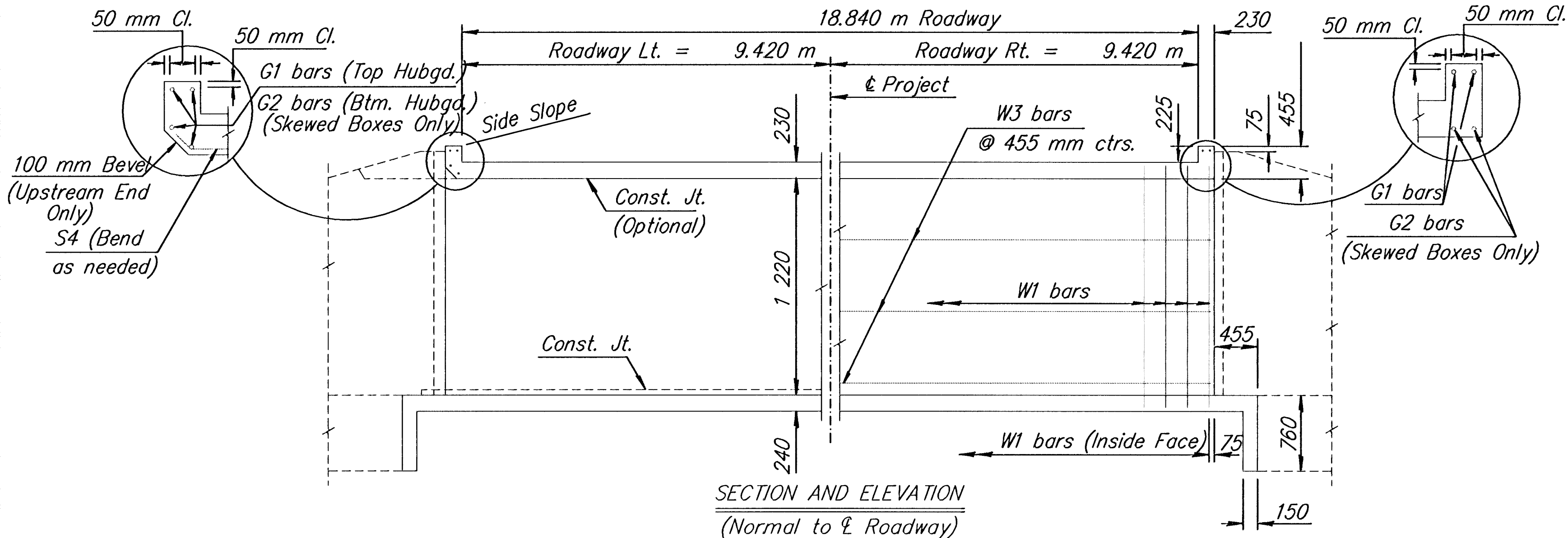


CO.	CHECK	DATE
DESIGN	DATE	DATE
DETAIL	DATE	DATE
TRACING	DATE	DATE
RETRACT	DATE	DATE

Drawn By : USERNAME	View=
DGN File : DGN\$PEC	
Plotted : SYTIME	

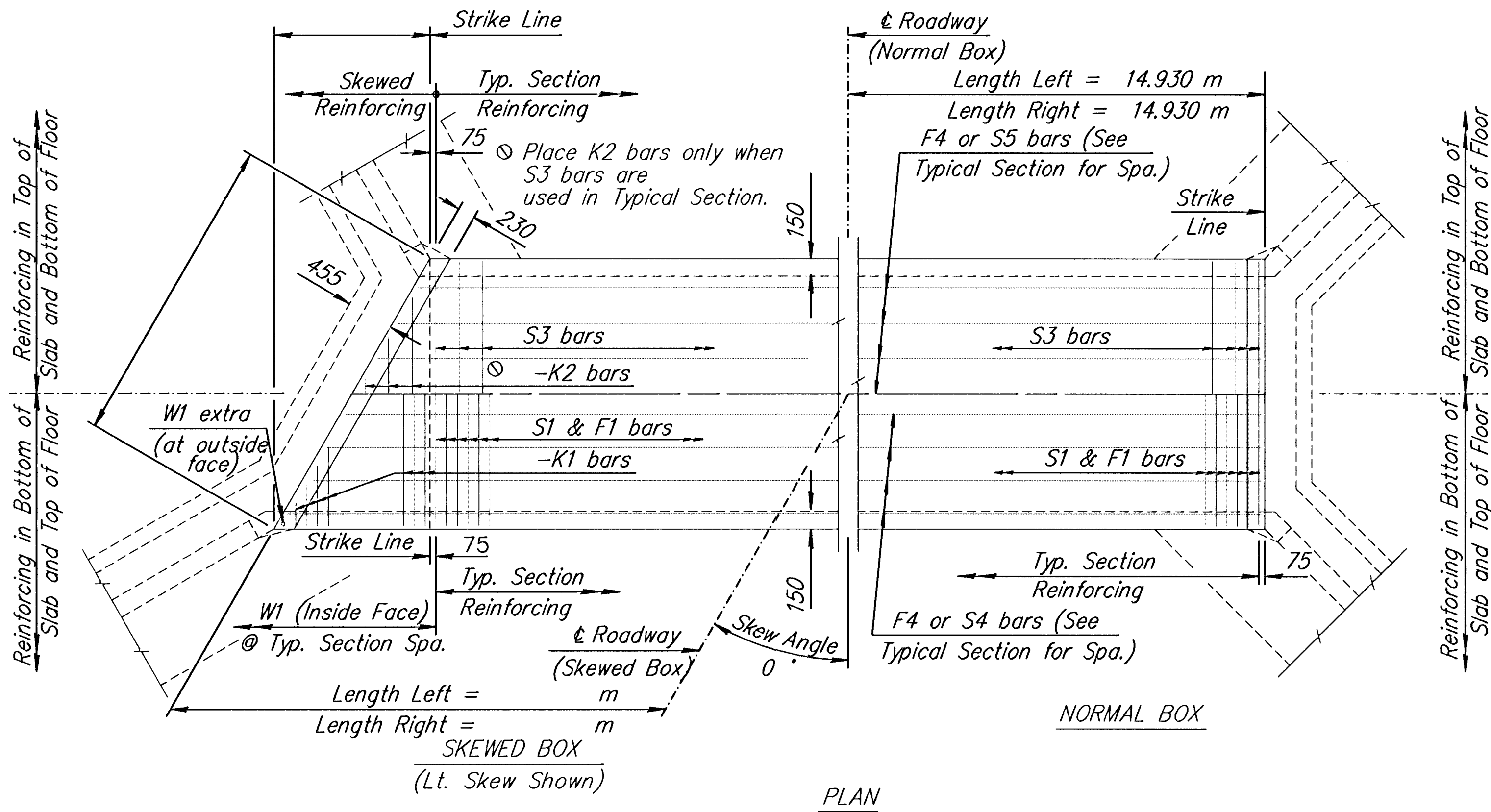


See RCB Auxiliary Details for Optional Splice.

Note:
S3 bars omitted unless grade box or slab thickness is greater than or equal to 305 mm.

Note:
F3 bars omitted unless floor thickness is greater than or equal to 305 mm.

†† Omit S5 bars when S3 bars are omitted and omit the bottom layer of F4 bars when F3 bars are omitted.



GENERAL NOTES

DESIGN SPECIFICATION: AASHTO Specifications, 1983 Edition
DESIGN LOADING: MS18-44

UNIT STRESSES: Class AAA Concrete $f'_c = 28 \text{ MPa}$
Reinforcing Steel $f_y = 420 \text{ MPa}$

FILL HEIGHT: Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and includes the surfacing.

CONCRETE: Use concrete conforming to Class AAA Concrete. Bevel all exposed edges with a 20 mm triangular molding. Where Class AAA(AE) is specified, place this concrete in the top slab above the Construction Joint.

REINFORCING: Use reinforcing steel conforming to ASTM A615M, Grade 420. All dimensions relative to reinforcing steel are to the centerline of the 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: The Engineer may require a seal course. The seal course shall be unreinforced Concrete(Commercial Grade) with a minimum depth of 75 mm 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 Engineer may require Foundation Stabilization. The Engineer shall determine the depth of Foundation Stabilization. Foundation Stabilization shall be paid for at the unit price set for Foundation Stabilization. See the "Auxiliary Details" sheet.

QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when they are required by the plans. Payment for additional quantities that result from including a seal course and/or a floating apron, as a change in the original plans, shall be made at the unit price bid for the various items involved.

GRANULAR BACKFILL (WINGWALLS): The Engineer may require special backfill procedures. See the "Auxiliary Details" sheet.

STRIKE LINE: Construct the wingwalls and that portion of the RCB outside the Strike Line level. Construct the wingwall footings with the culvert floor. See the wingwall detail sheets.

CULVERT SUMMARY															
Flow Line Elev. Lt. (m)	Flow Line Elev. Rt. (m)	Crown Gr. Elev. (m)	Design Fill Ht. (m)	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete			Reinf. Steel (Gr. 420)		
										Barrel (m ³)	Wings (m ³)	Total (m ³)	Barrel (kg)	Wings (kg)	Total (kg)
403.900	403.750	406.340	0.6	0	STRAIGHT	STRAIGHT	NO	NO	NO	49.4	6.0	55.4	3728	257	3985

BAR SCHEDULE																							
F1				F3				F4				S1				S3				S4			
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
20	150	199	2 640	-	-	-	-	-	-	-	-	12	21	10	190	20	150	199	2 640	-	-	-	-
K1				K2				W1				W3				G1				G2			
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
-	-	-	-	-	-	-	-	12	230	260	1 600	-	-	-	-	15	4	2 640	-	-	-	-	-

Minimum Splice Lengths	
#12	405
#15	510
#20	610

SUMMARY OF QUANTITIES	
Class AAA Concrete	55.4 m³
Class AAA Concrete (AE)	0.0 m³
Reinforcing Steel (Gr. 420)	3990 kg
Reinforcing Steel (Epoxy Coated)	0 kg
Class III Excavation	m³
Foundation Stabilization (Set)	1 m³
Concrete for Seal Course (Set)	1 m³
Granular Backfill (Wingwalls) (Set)	1 m³

NO.	DATE	REVISIONS				BY	APP'D		
KANSAS DEPARTMENT OF TRANSPORTATION									
Sta. 10+828									
SINGLE 2.4 m x 1.2 m RCB									
BR1.8.4 SI					SEDGWICK CO.				
FHWA APPROVAL		6-5-91		APP'D		KENNETH F. HURST			
DESIGNED		DETAILED		QUANTITIES		TRACED			
DESIGN CK.		DETAIL CK.		QUAN. CK.		TRACE CK.			