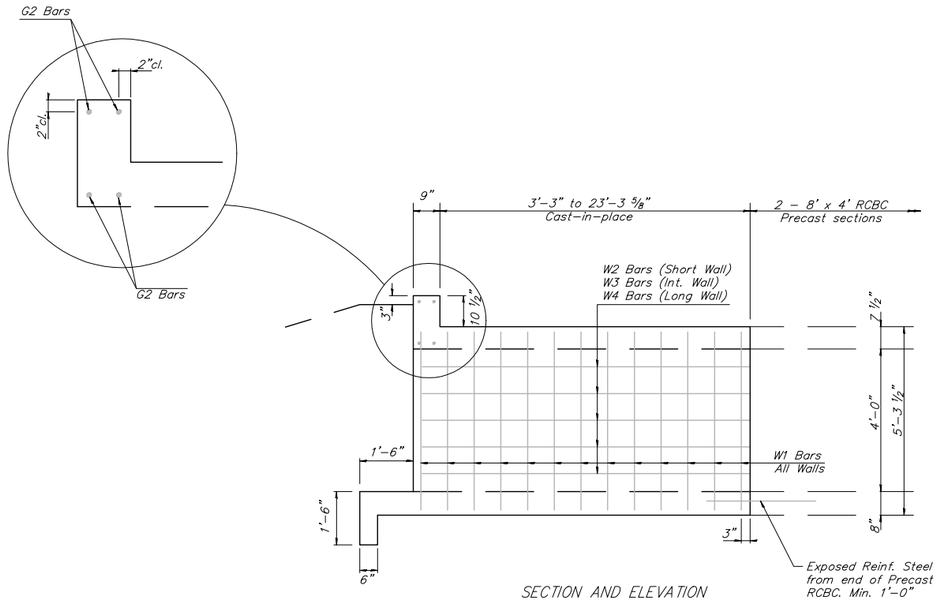
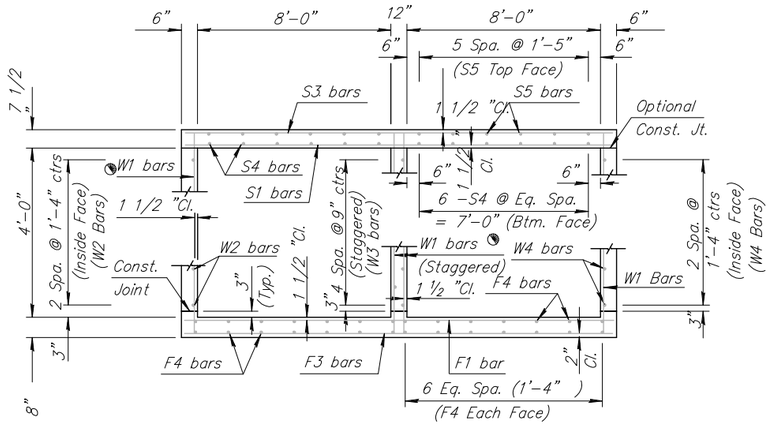
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KS	468-84253	2006	11	22

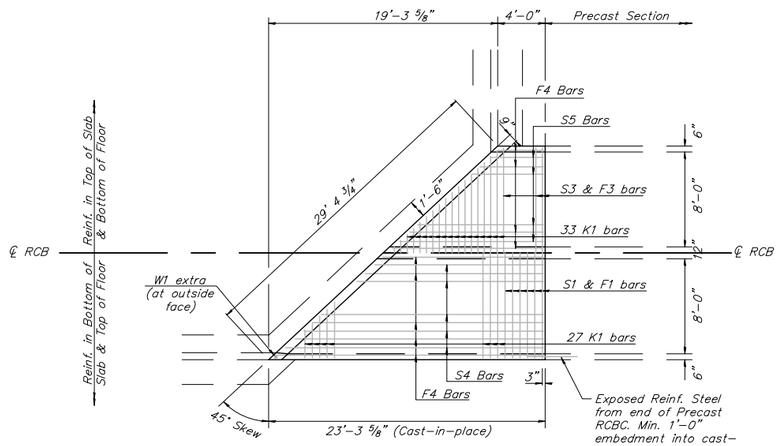


SECTION AND ELEVATION
(Normal to ℄ Roadway)

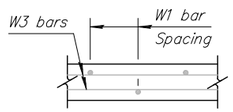


TYPICAL SECTION

See RCB Auxillary Details for Optional Splice.



PLAN



PLAN OF INTERIOR WALL

Varies from 17'-6" to 2'-4" by 7" Increments

K1
(Cut 2 each length)

Varies from 17'-5 3/8" to 1'-3 1/2 " by 6" Increments

K2
(Cut 2 each length)

Varies from 23'-0" to 3'-9" by 1'-9" Increments

S4
(Cut 2 each length)

Varies from 23'-0" to 3'-9" by 1'-9" Increments

S5
(Cut 2 each length)

Varies from 23'-0" to 3'-9" by 1'-7 1/4" Increments

F4
(Cut 2 each length)

BENDING DIAGRAM
All Dimensions are out to out of bars.

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 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: Foundation Stabilization may be required as directed by the Engineer. The depth of Foundation Stabilization shall be determined by the Engineer. Foundation Stabilization shall be paid for at the determined Unit Price set for Foundation Stabilization. See Auxiliary Details.
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.

△ Epoxy Coated Bars
✳ See Bending Diagram

BAR SCHEDULE

F1						F3				F4			△S1							△S3				△S4			△S5		
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	No.	Length
5	7 ½"	6	17'-8"	N/A	N/A	N/A	N/A	5	6 ½"	7	17'-8"	4	28	✳	5	7 ½"	6	17'-8"	N/A	N/A	N/A	N/A	5	6 ½"	7	17'-8"	4	12	✳	4	12	✳

△K1				△K2				W1				W2				W3				W4				△G1			△G2						
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	Spa.	No.	Length	Size	No.	Length	Size	No.	Length	Size	Spa.	No.	Length
5	7 ½"	56	✳	5	6 ½"	66	✳	4	9"	56	5'-0"	4	N/A	3	3'-9"	4	5	13'-4"	4	N/A	3	23'-0"	N/A	N/A	N/A	7	4	26'-0"	N/A	N/A	N/A	N/A

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

Minimum Splice Length		
Concrete (Grade 4.0)	11.7	C.Y.
Concrete (Grade 4.0) (AE)	6.3	C.Y.
Reinf. Steel (Gr. 60)	812	Lbs.
Reinf. Steel (Epoxy Coated)	1,244	Lbs.
Class III Excavation		C.Y.
Foundation Stabilization (Set)	1	C.Y.
Concrete for Seal Course (Set)	1	C.Y.
Granular Backfill (Wingwalls) (Set)	1	C.Y.

NO.	DATE	REVISIONS	BY	APP'D

DOUBLE 8 ft x 4 ft RCB
(47° SKEW LT.)

BR 2.8.4 P — Sedgwick Co.

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

Plotted: Bythorsell | Plot Location: ocalProj
File(s): \ED\RWsdgwkco284.dgn
Plot Date: 10/2/2006