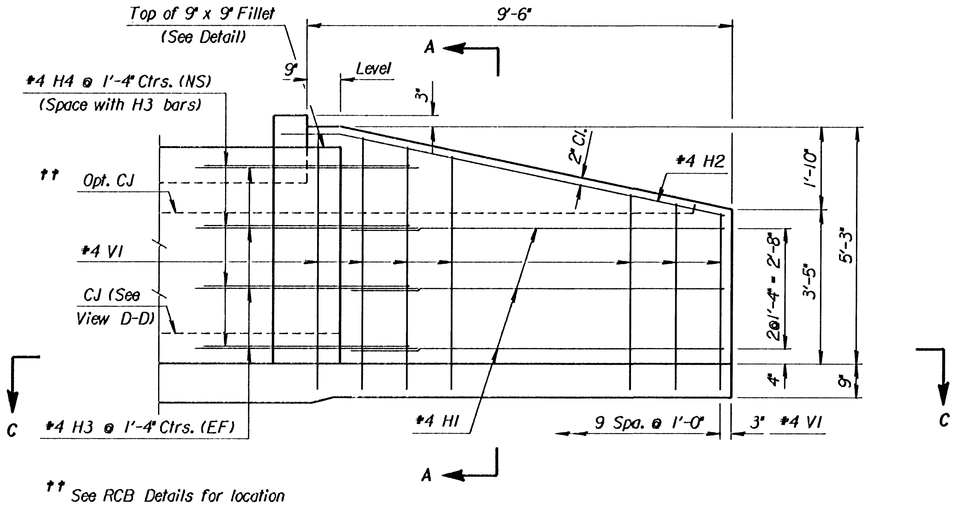
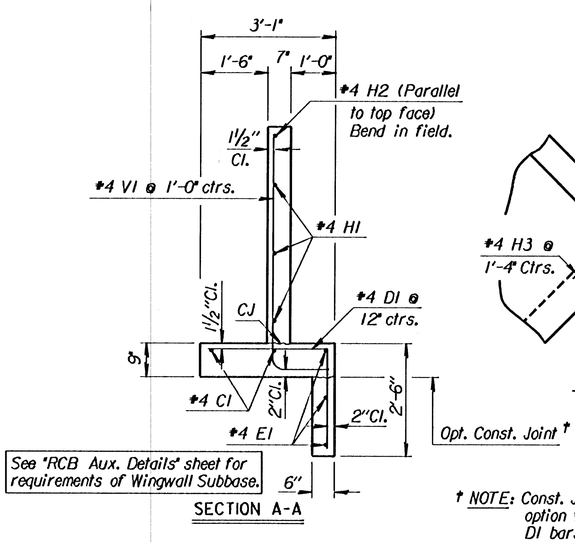
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87U-1362-01	1993	56	149

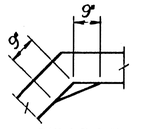


†† See RCB Details for location of construction Joint.

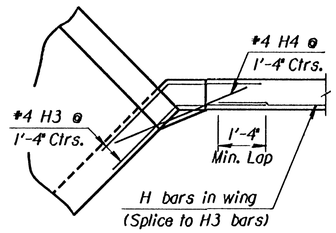
ELEVATION OF WINGWALL
(Backface Shown)



SECTION A-A



Fillet Detail



DETAIL OF 9" x 9" FILLET
(Plan View)

GENERAL NOTES

UNIT STRESSES: Class AAA Concrete; f'c = 4,000 p.s.i.
Reinforcing Steel; fy = 60,000 p.s.i.

CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a ¾inch triangular moulding.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

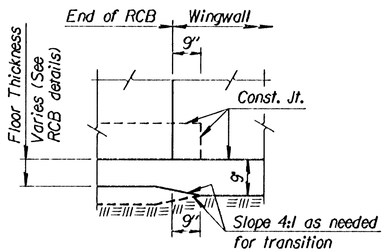
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, including the hubguard.

APRON: A 5" concrete slab shall be constructed between the downstream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as pounds of reinforcing.

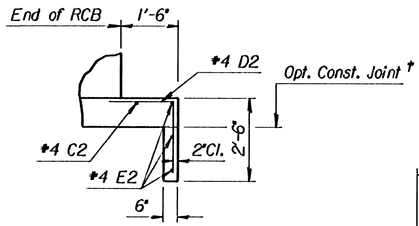
FOUNDATION AND BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for foundation and/or backfill material for wingwalls and will not be used. Where these conditions exist, Foundation Stabiliation and/or Granular Backfill (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.

† NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. DI bars or mesh may be spliced thus: ⌐ Minimum overlap shall be 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.

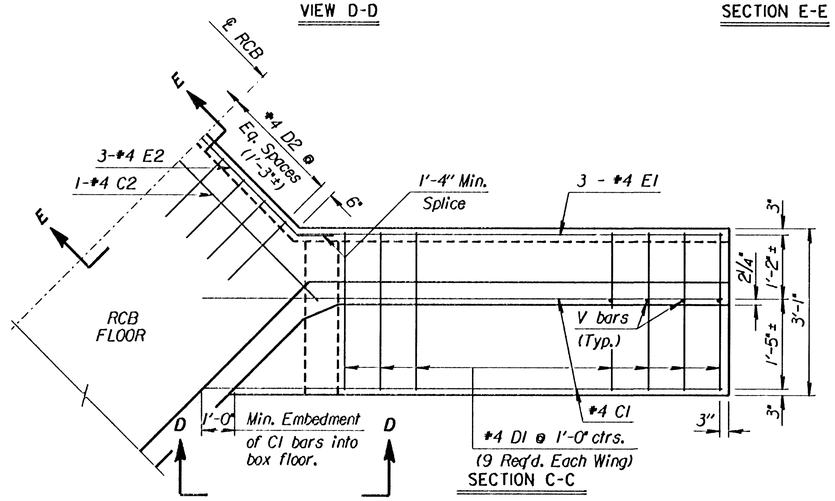
NOTE:
EF = Each Face
NS = Near Side
FS = Far Side
CJ = Const. Joint



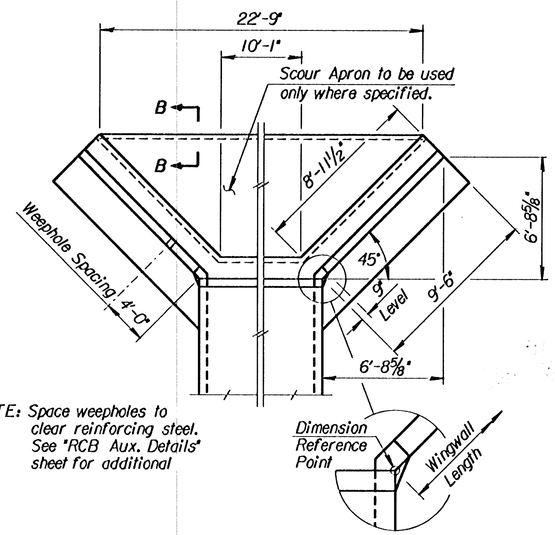
VIEW D-D



SECTION E-E

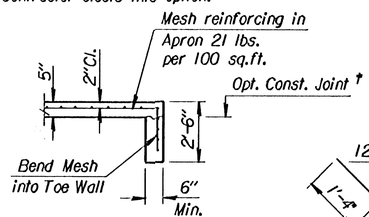


SECTION C-C

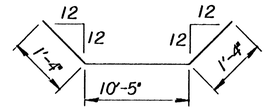


NOTE: Space weepholes to clear reinforcing steel. See "RCB Aux. Details" sheet for additional

WING DIMENSIONS FOR NORMAL BOX
(3½:1 Embankment Slope)



SECTION B-B



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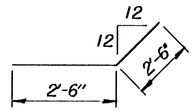
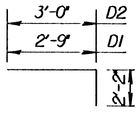
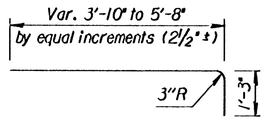


H3



D1,D2



V1
(2 Req'd., each length)

Note: Wingwall Required at Rt @ Conc. Wall at Lt.

Quantities listed below are included in the Summary of Quantities shown on the RCB details.

WINGWALL QUANTITIES (One End Only)		
Class AAA Concrete:		
Wingwalls	5.18	CY.
Apron	2.49	CY.
Soil Saver	0.00	CY.
Reinforcing Steel	385.88	Lbs.
Welded Wire Fabric	33.84	Lbs.

BENDING DIAGRAM
(All dimensions are out to out of bars.)

NOTE: Reinforcing Bar List is for both wings at one end of box only.

* See Bending Diagram

		#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4
0° Skew	No.	4	18*	6	1	8 *	3 *	20	6	2	16*	8
	Length	11'-7"	4'-11"	8'-9"	11'-3"	5'-2"	13'-1"	*	8'-4"	10'-3"	5'-0"	3'-6"

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
Sta. 41+40

FLARED WINGWALLS
4 FT. RISE (0°SKEW)

~~STD. NO. 10.00.04~~ SEDGWICK CO.

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

ORIG. FROM MBAD	PROJ.	CO. CHECK	DATE
DESIGN			DATE
DETAIL			DATE
DRAWING			DATE
TRACING			DATE
CHECKED			DATE

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