

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KS	468-84253	2007	12	22

GENERAL NOTES

UNIT STRESSES: Grade 4.0 Concrete; $f'_c = 4,000$ p.s.i.
Reinforcing Steel; $f_y = 60,000$ p.s.i.

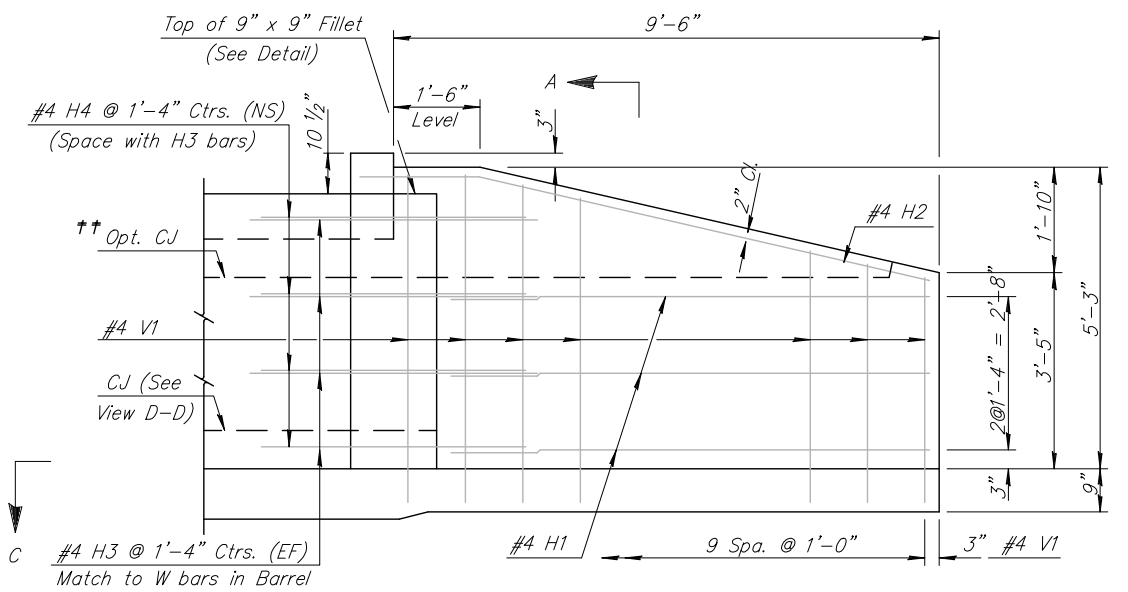
CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular mauling.

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.

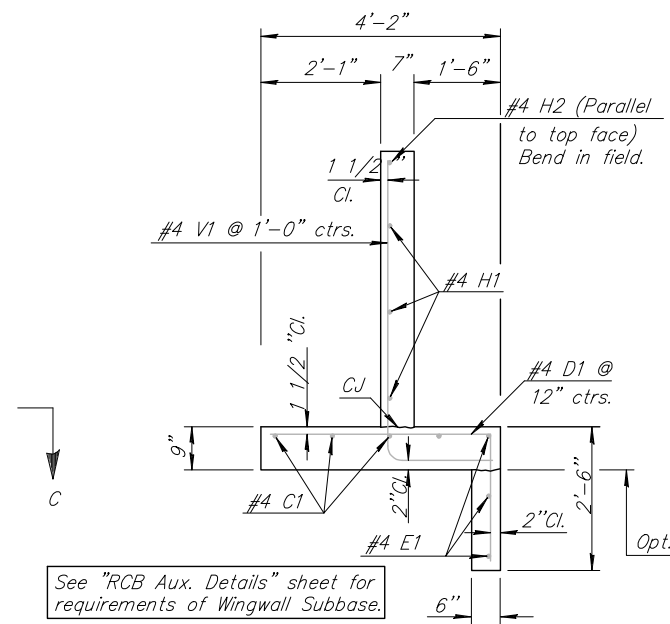
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

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.

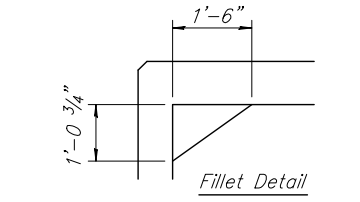
FOUNDATION AND BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for foundation and/or backfill material for wingwalls and will not be used. Where these conditions exist, Foundation Stabilization and/or Granular Backfill (Wingwalls)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



ELEVATION OF WINGWALL
(Backface Shown)



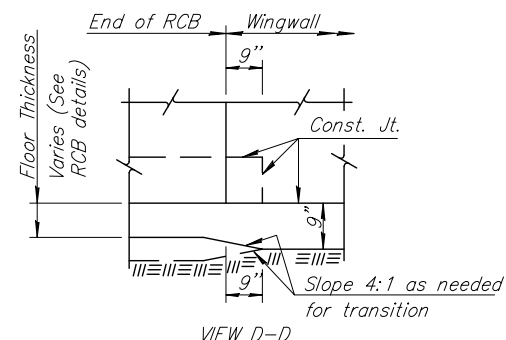
SECTION A-A



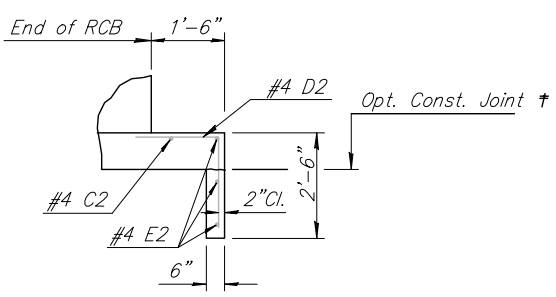
DETAIL OF 9" x 1'-6" FILLET
(Plan View)

NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. D1 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.

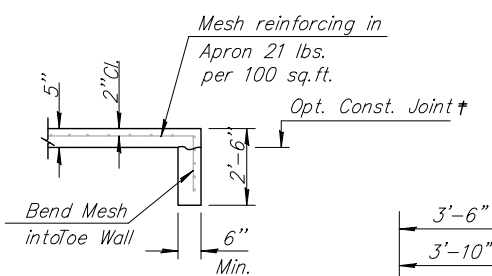
NOTE:
EF = Each Face
NS = Near Side
FS = Far Side
CJ = Const. Joint



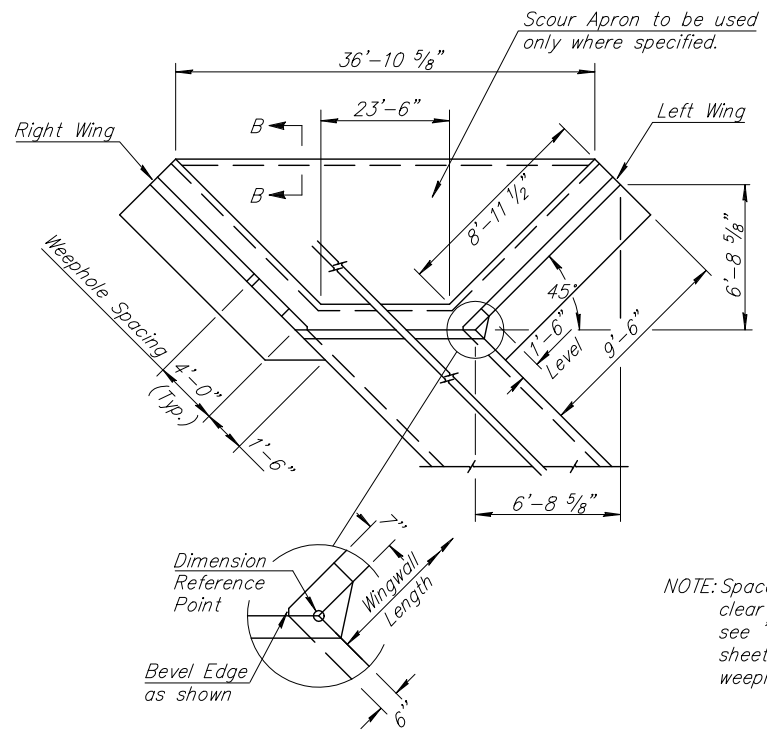
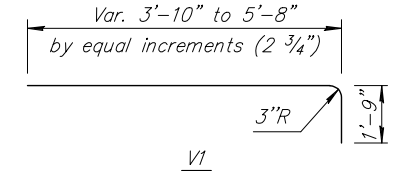
VIEW D-D



SECTION E-E



SECTION B-B



WING DIMENSIONS FOR 45° SKEWED BOX
(3 1/2 : 1 Embankment Slope)

NOTE: Space weepholes to clear reinforcing steel, see "RCB Aux. Details" sheet for additional weephole details.

SUMMARY OF WING QUANTITIES	
Concrete (Grade 4.0)	
Wingwalls	4.6 C.Y.
Apron	4.3 C.Y.
Reinf. Steel	46.3 Lb.
Welded Wire Fabric	55 Lb.

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

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION Br. No. -87-.00(000) Sta. 1+00				
4 ft Rise (45° SKEW)				
BR 10.45.04		Sedgwick Co.		
DESIGNED	DATE	QUANTITIES	TRACED	
DESIGN OK	DETAIL OK	QUAN. OK	TRACE OK	

†† See RCB Details for location of construction joint.

Plotted By: harsell
 Location: LocalProj
 File: Q:\ED\RM\sdgwkco284.dgn
 Plot Date: 02/2/2006

BAR SCHEDULE		* See bending diagram (all reinf. is #4)									
Bar	C1	D1	E1	C2	D2	E2	V1	H1	H3R	H4	
Number	8	20	6	1	21	3	20	6	4	8	
Length	10'-4"	6'-0"	8'-9"	25'-6"	5'-8"	26'-3"	*	8'-2"	5'-0"	2'-4"	