

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 $\frac{3}{4}$ inch triangular moulding.

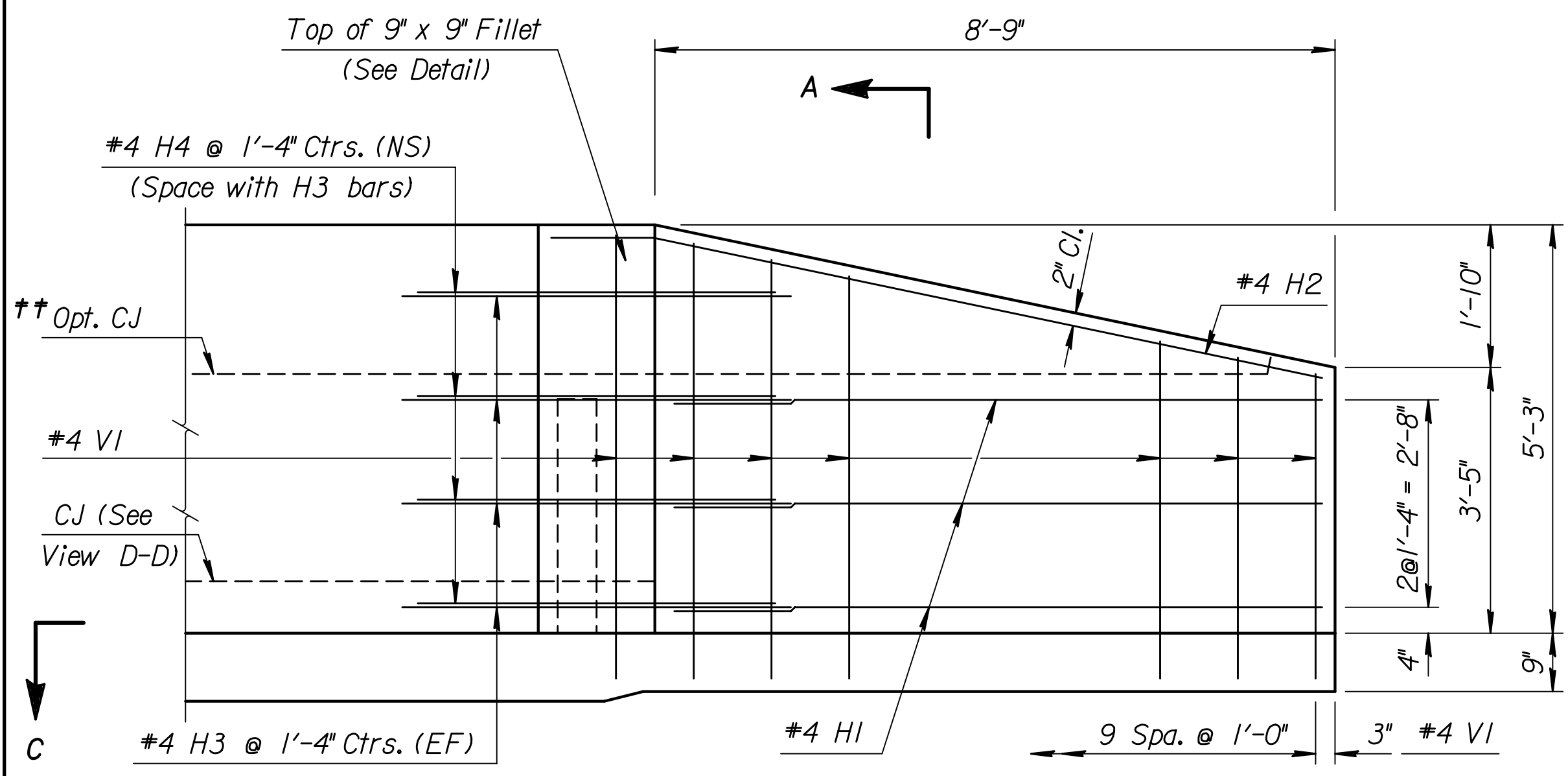
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

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

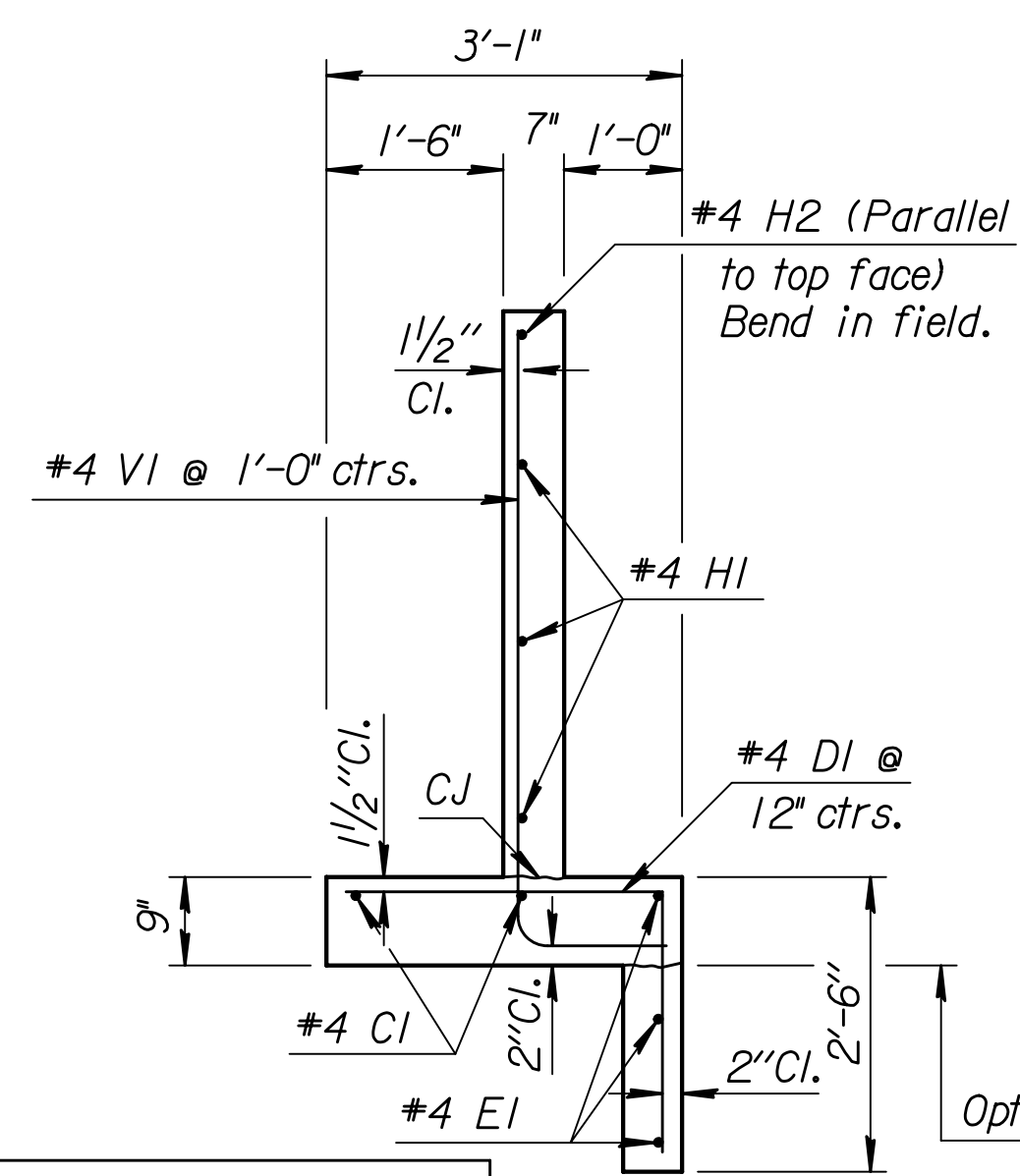
APRON: A 5" concrete slab shall be constructed between the wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as pounds of reinforcing and included in the total quantity for the bid item Reinforcing Steel (Gr. 60)

BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for backfill material for wingwalls and will not be used. Where these conditions exist, use Granular Backfill (Wingwalls).

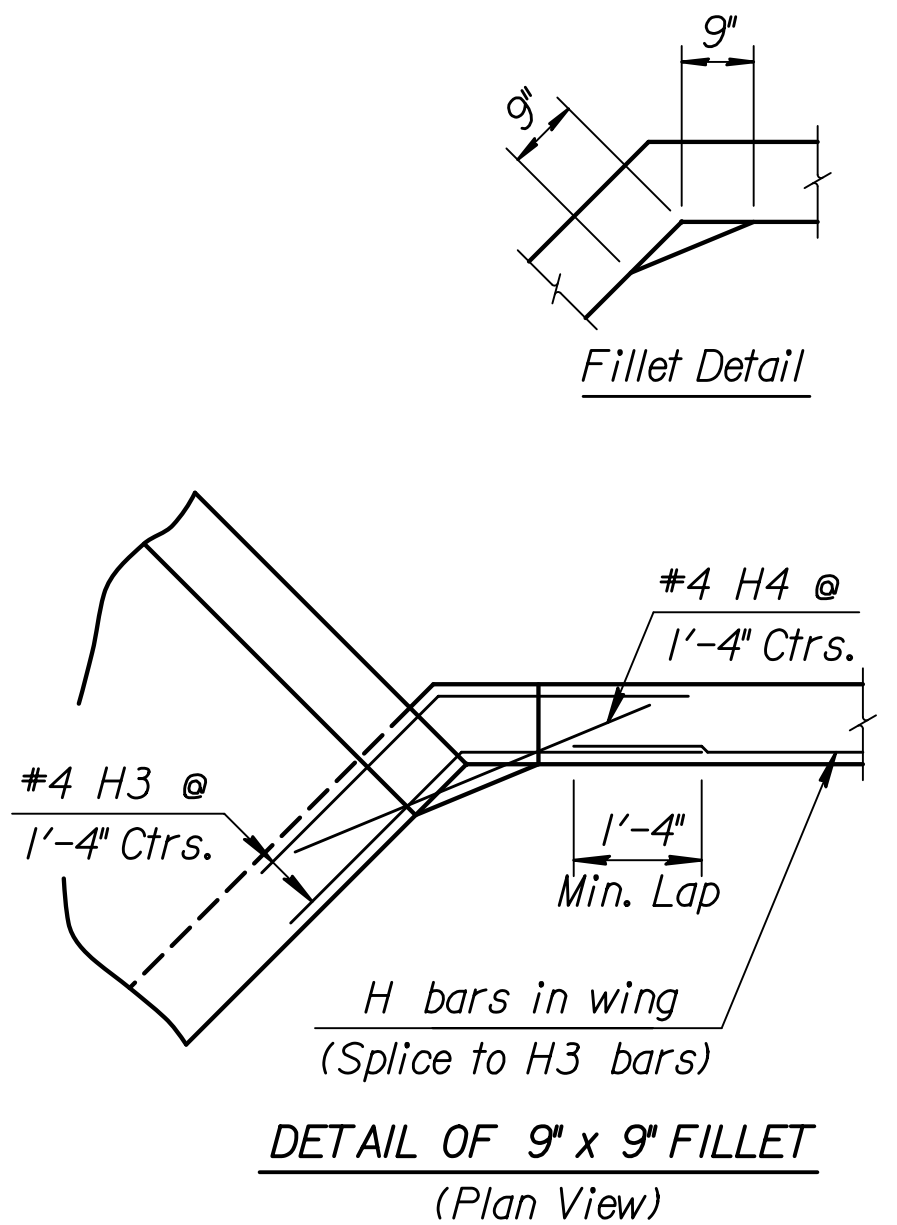
FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.



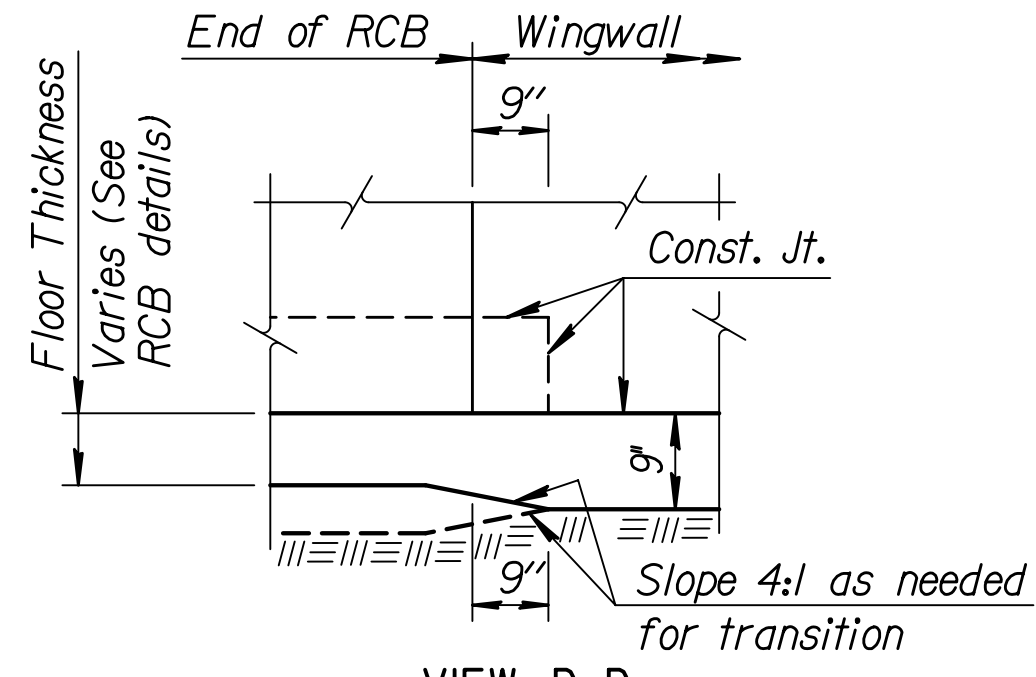
ELEVATION OF WINGWALL
(Backface Shown)



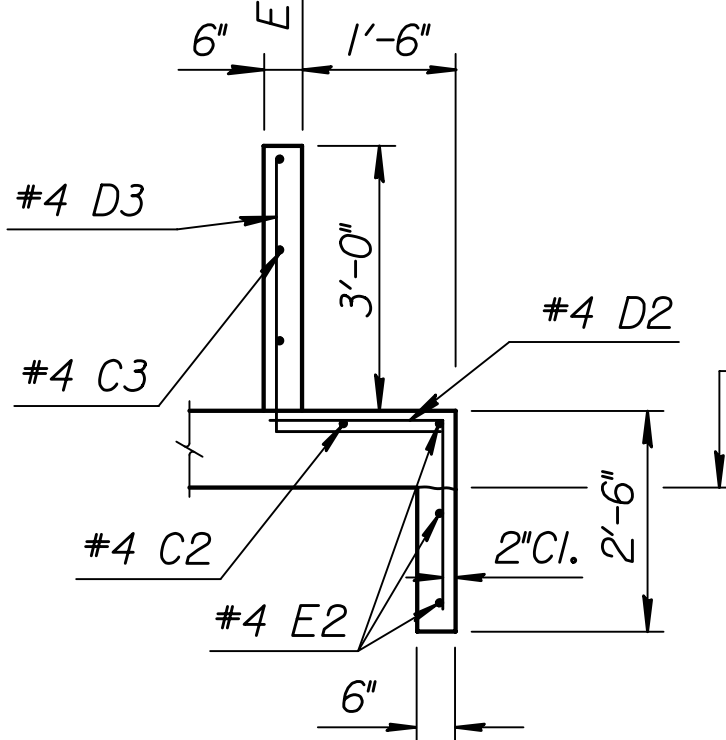
SECTION A-A



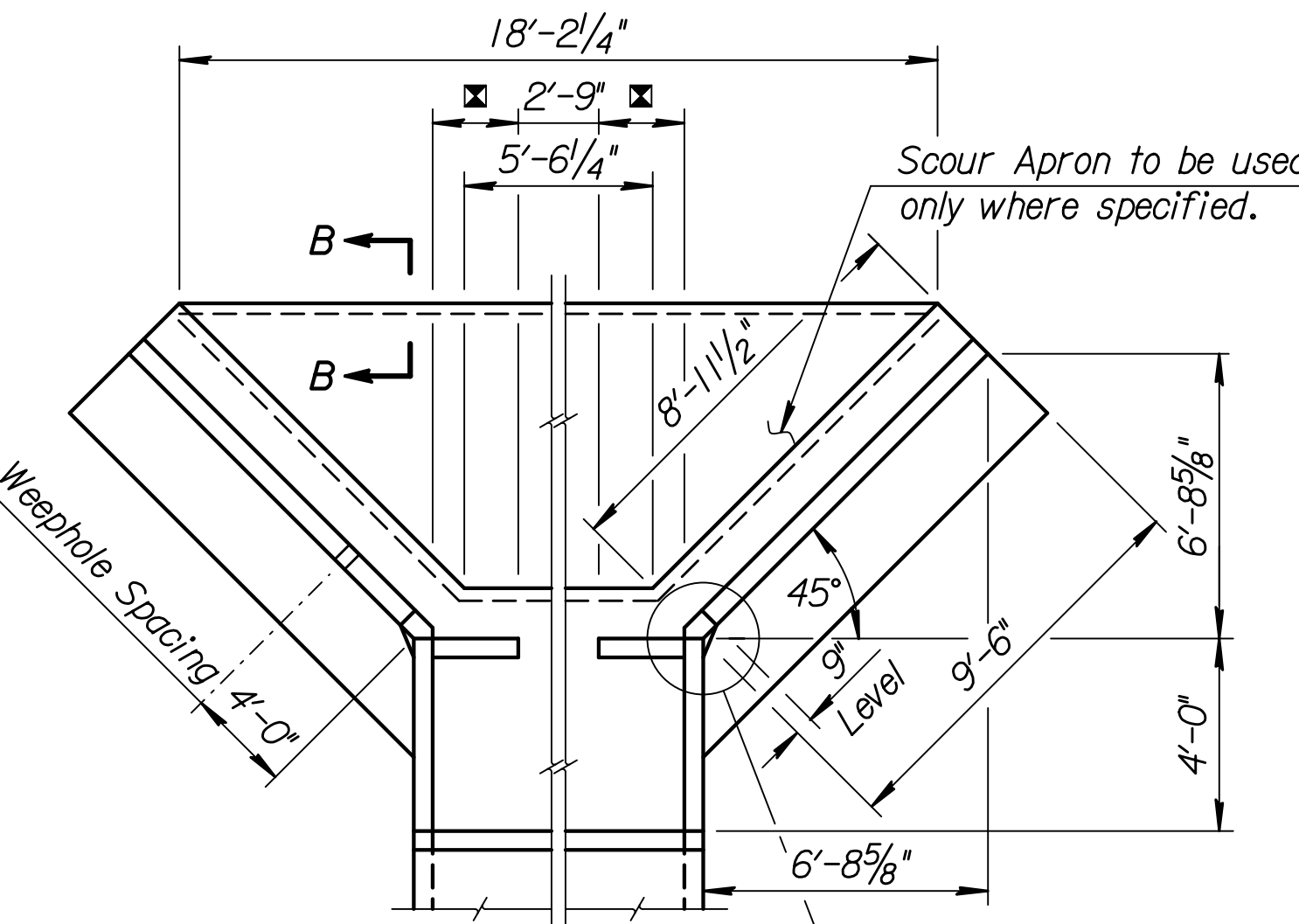
DETAIL OF 9" x 9" FILLET
(Plan View)



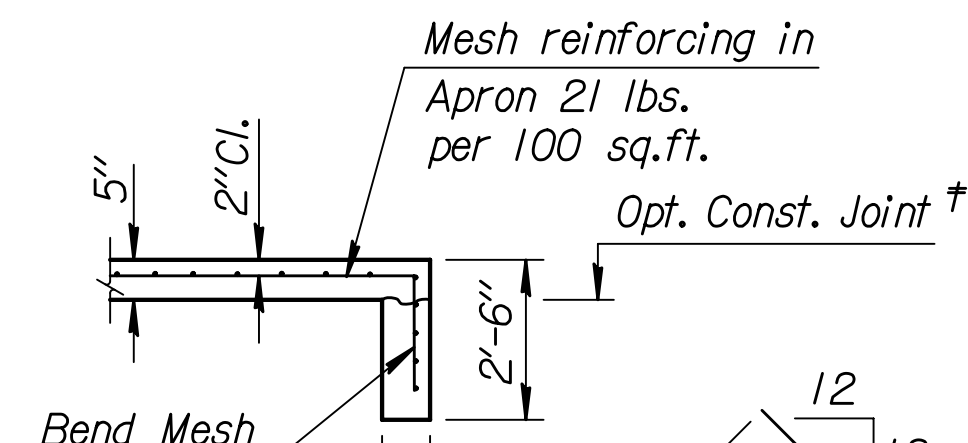
VIEW D-D



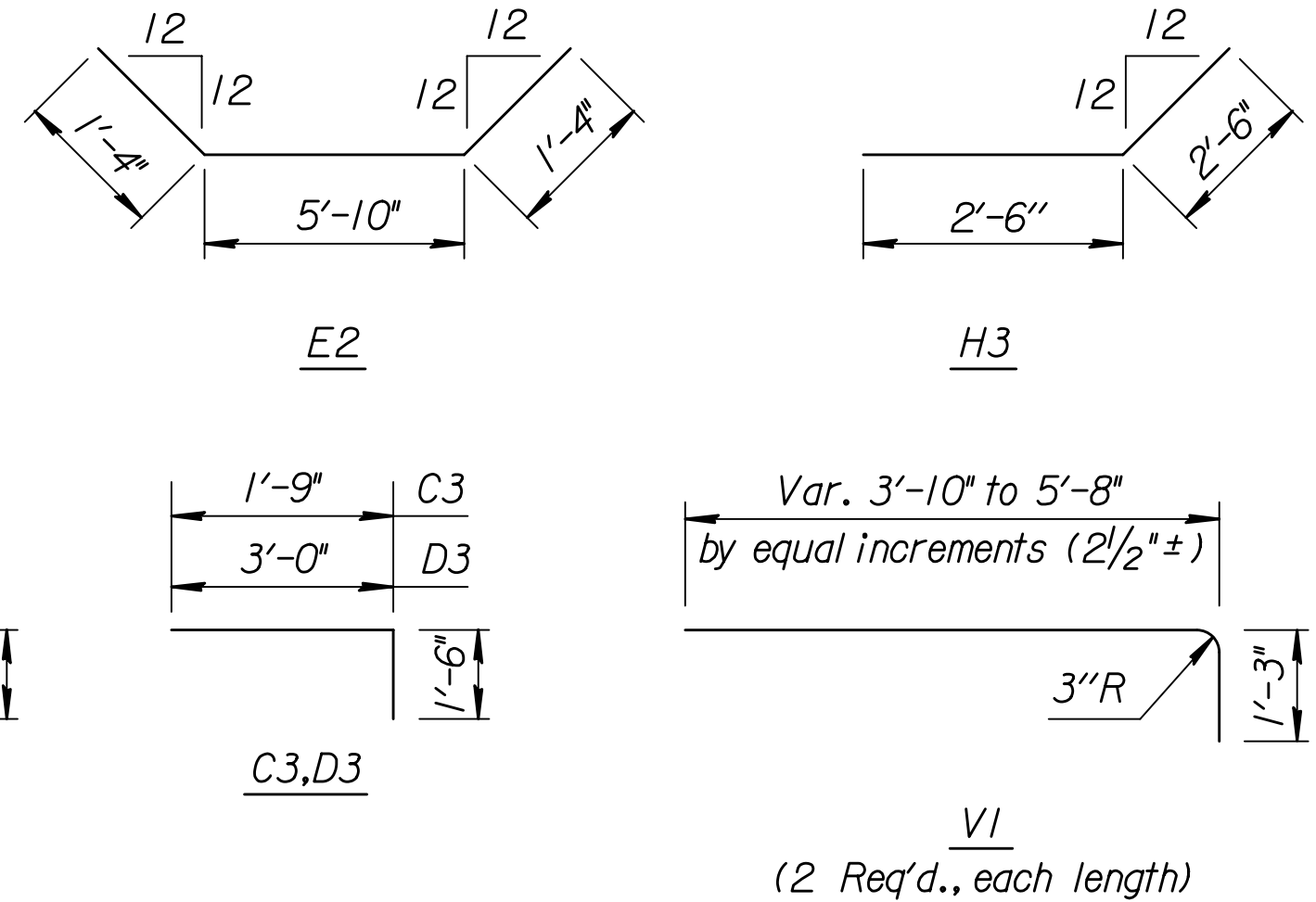
SECTION E-E



WING DIMENSIONS
(3/2:1 Embankment Slope)



SECTION B-B



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

†† See RCB Details for location of construction joint.

See "RCB Aux. Details" sheet for requirements of Wingwall Subbase.

† 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

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

WINGWALL QUANTITIES (One End Only)		
	Foundation Stabilization (C.Y.)	Concrete (Gr. 4.0) (C.Y.)
Wingwalls	1.80	4.27
Apron	1.23	1.84
Soil Saver	0.00	0.00
Reinforcing Steel (Gr. 60)		404 Lbs.
Welded Wire Fabric		13.12 Lbs.

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

0° Skew	#													
	No.	4	18*	6	1	5*	3*	20	6	2	16*	8	6	10
Length	11'-7"	4'-11"	8'-9"	6'-8"	5'-2"	8'-6"	*	8'-4"	10'-3"	5'-0"	3'-0"	3'-3"	4'-6"	

* See Bending Diagram

Plotted By: svb
 File: I:\2008\0820\RCB\08208-RCB-Sta. 228+29-Wing Downstream.dgn
 Plot Date: 11/21/2011

KANSAS DEPARTMENT OF TRANSPORTATION

Sta. 228+29.00

FLARED WINGWALLS Lt.
4 ft Rise (0° SKEW)
(Downstream)

BR 10.00.04: Sedgwick Co.

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