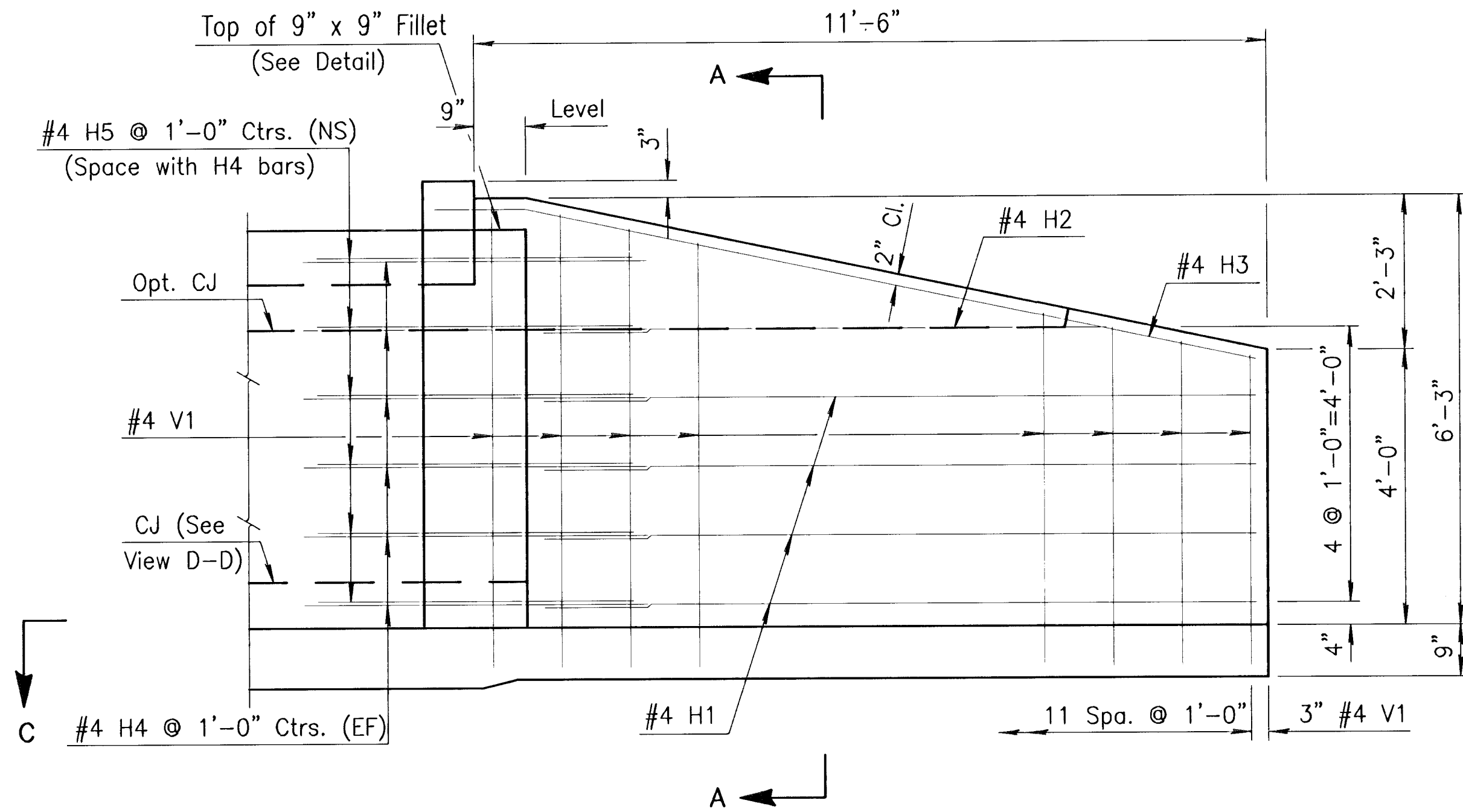
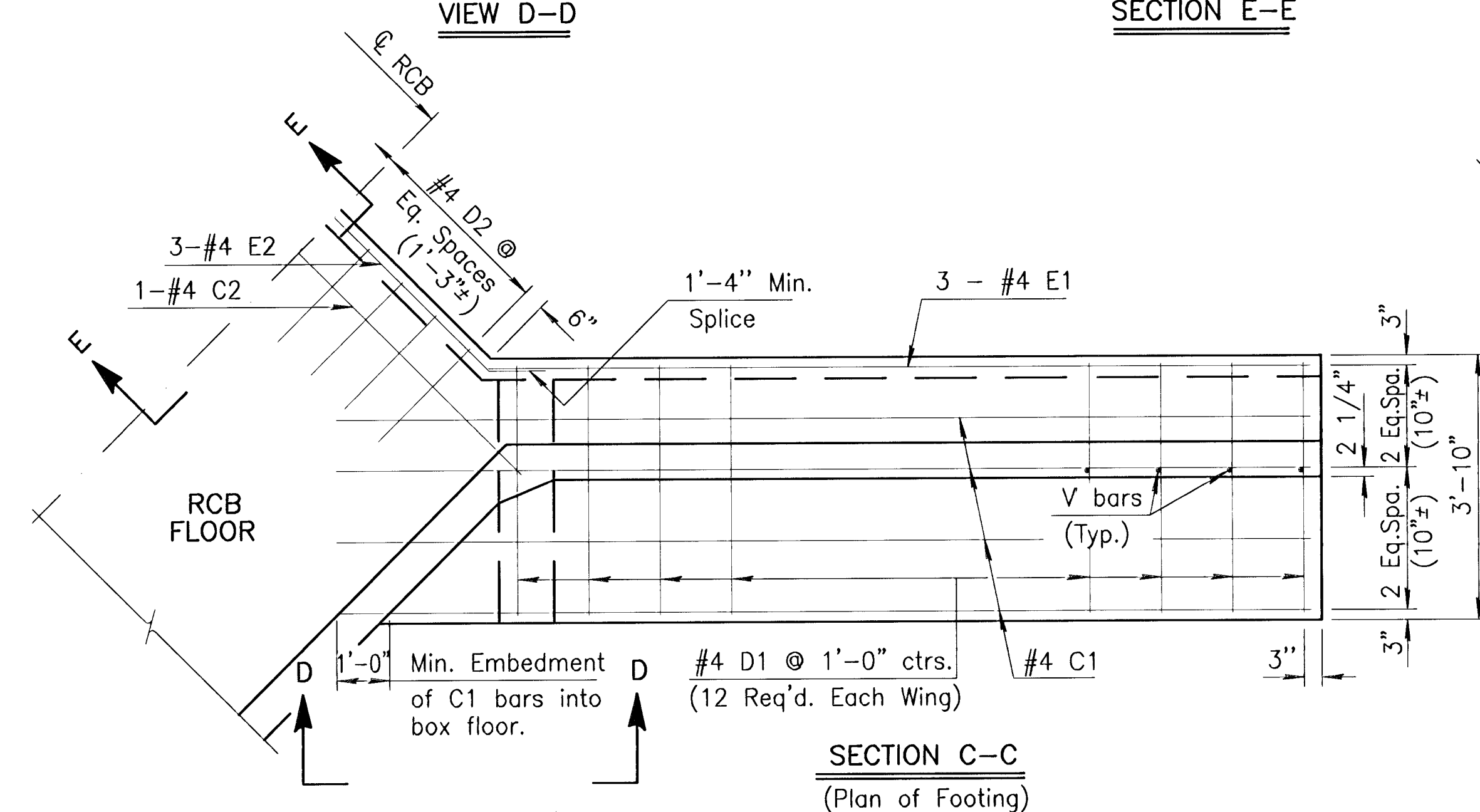
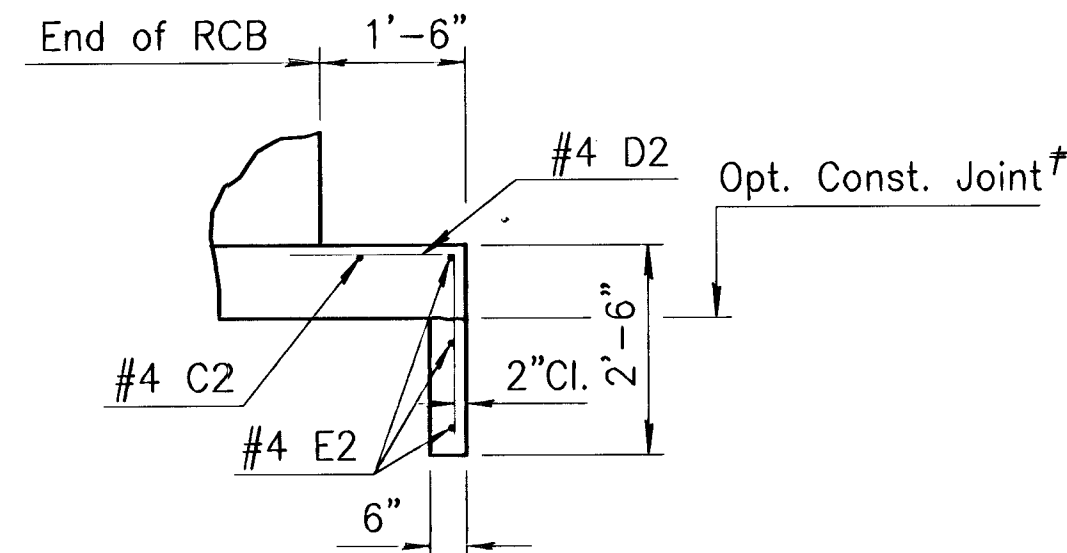
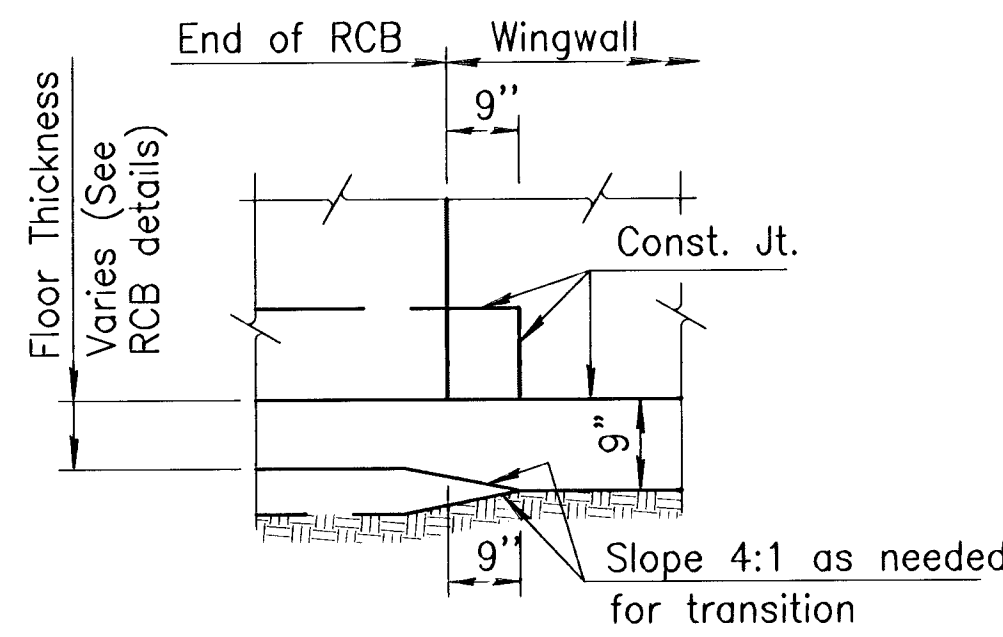


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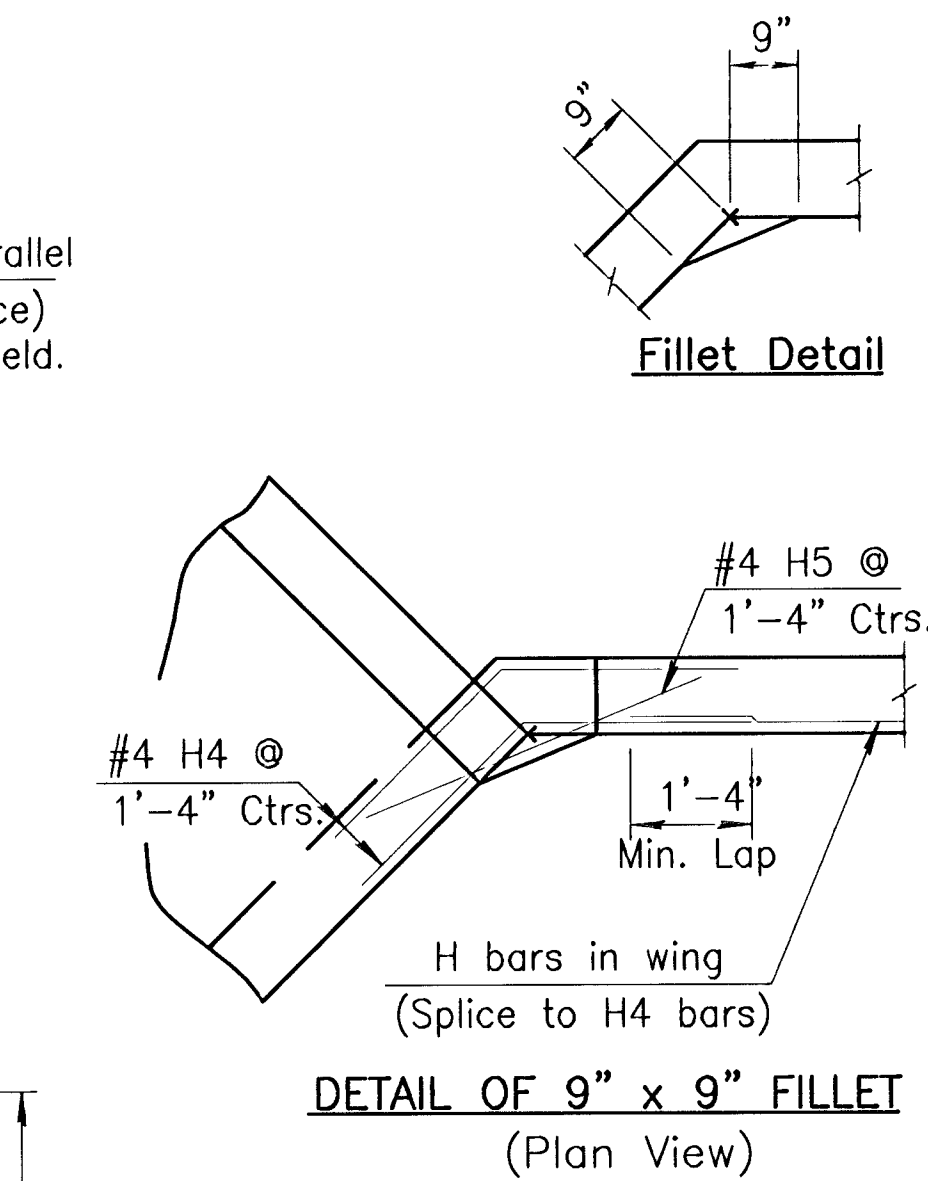
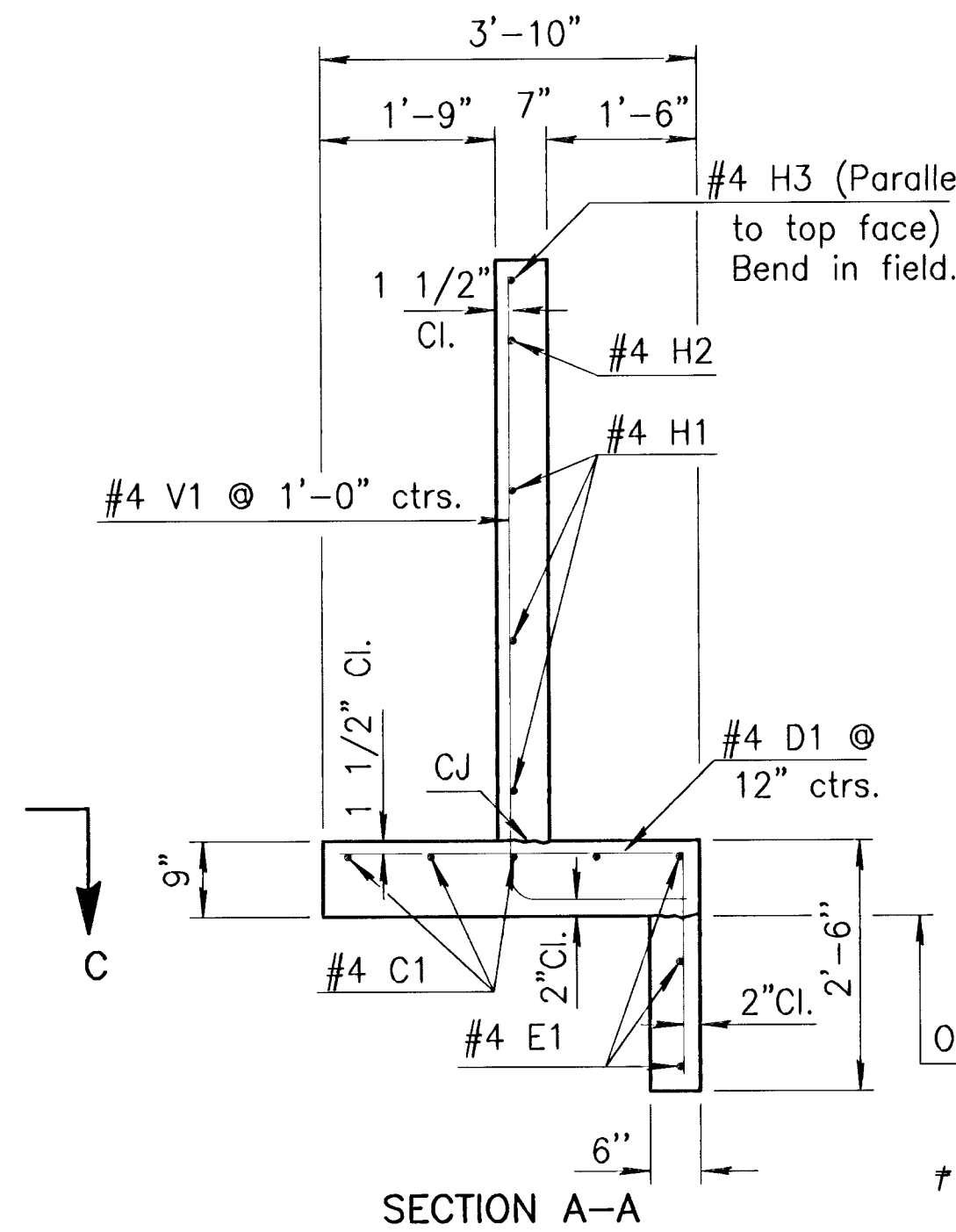


ELEVATION OF WINGWALL
(Backface Shown)

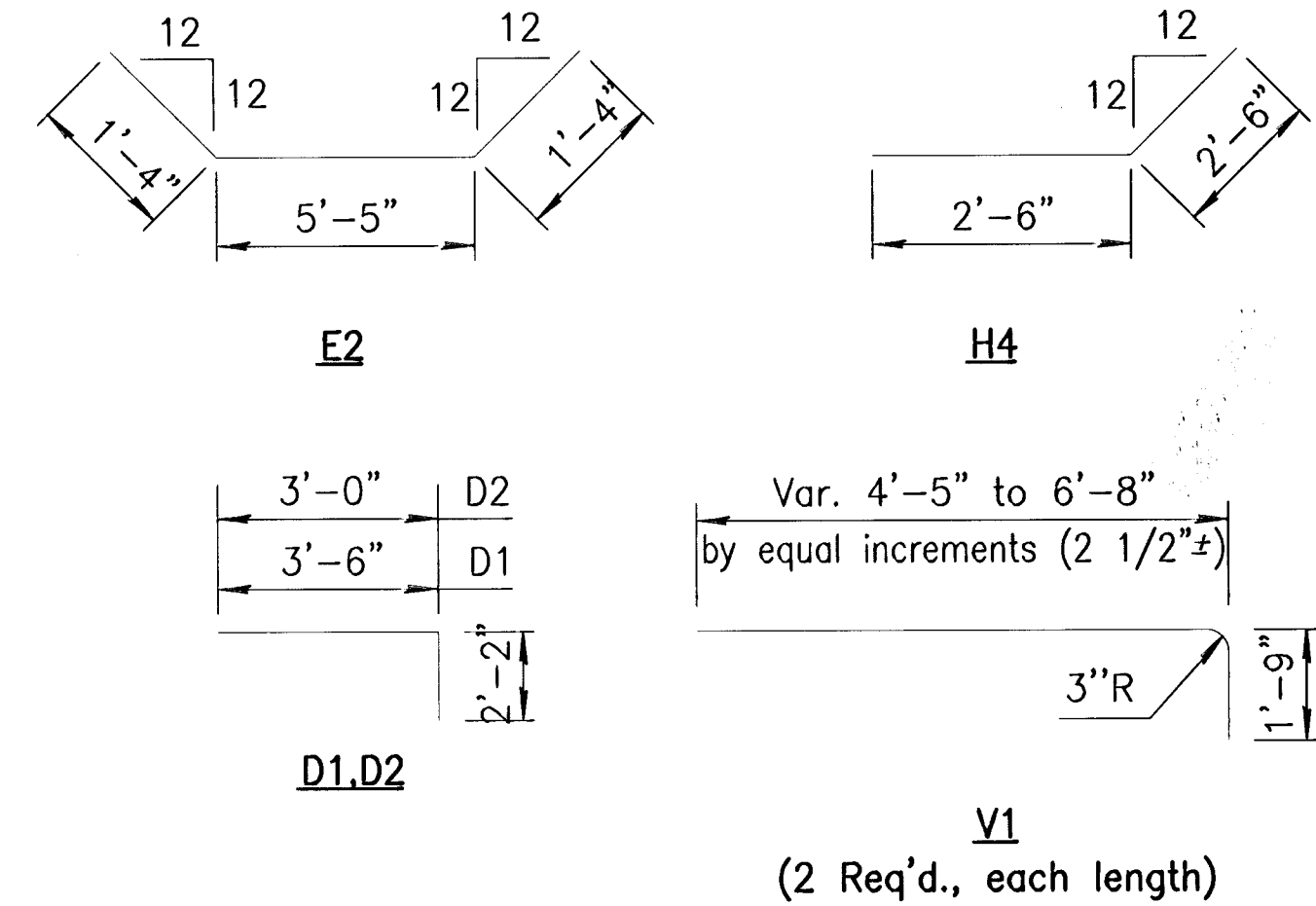
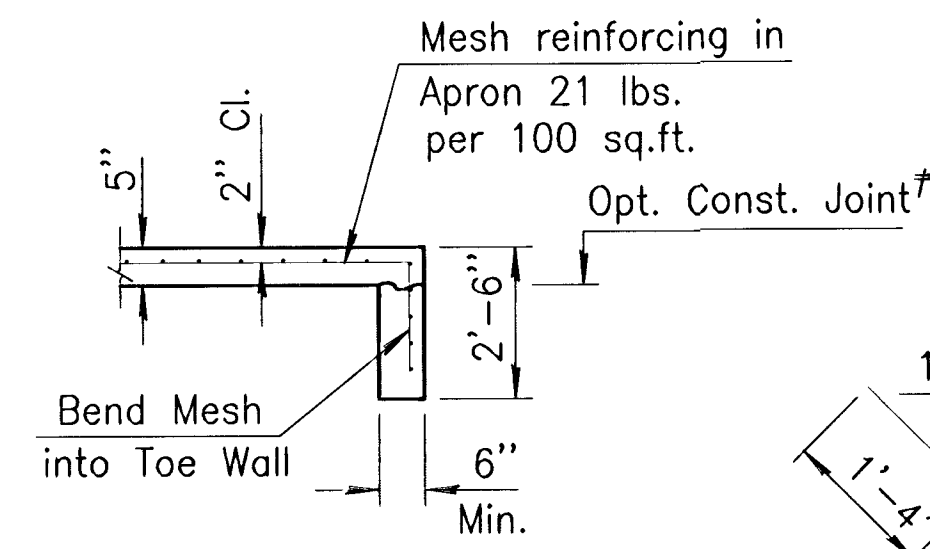


NOTE: Reinforcing Bar List is for both wings at one end of box only.

0° Skew		#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4	#4H5
	No.	8	24 *	6	1	4 *	3 *	24	8	2	2	24 *	12
	Length	14'-0"	5'-8"	11'-3"	7'-8"	5'-2"	8'-1"	*	10'-4"	8'-4"	12'-4"	5'-0"	3'-6"



† 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.



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

WINGWALL QUANTITIES (One End Only)			
Class AAA Concrete:			
Wingwalls	6.50	CY.	
Apron	2.48	CY.	
Soil Saver	0.00	CY.	
Reinforcing Steel			
	553.83	Lbs.	
Welded Wire Fabric			
	33.68	Lbs.	

WING DIMENSIONS FOR NORMAL BOX
(3 1/2:1 Embankment Slope)

* See Bending Diagram

GENERAL NOTES

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

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

FALCON FALLS - PHASE 1
STREET IMPROVEMENTS
WINGWALL (5' RISE) DETAILS
CITY OF WICHITA, KANSAS
NEL D. CABLE, P.E. - CIVIL ENGINEER
C.O.W. Project # 472-8867 O.C.A. # 765762

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5940 E. Central, Suite 200
Wichita, KS 67208-4242
Phone 316/685-4114 FAX 316/685-4444



FINAL

Designed By: J. Ubert / B. Kulla
Drawn By: B. Kulla
Poe Job No.: 1748A
Date: May 2003

KANSAS DEPARTMENT OF TRANSPORTATION				
North Pond				
FLARED WINGWALLS 5 FT. RISE (0° SKEW)				
BR10.00.05 SEDGWICK CO.				
DESIGNED	6-5-91	APP'D	KENNETH F. HURST	
DESIGN CK.	DETAIL CK.	QUANTITIES	QUAN. CK.	TRACED
				TRACE CK.