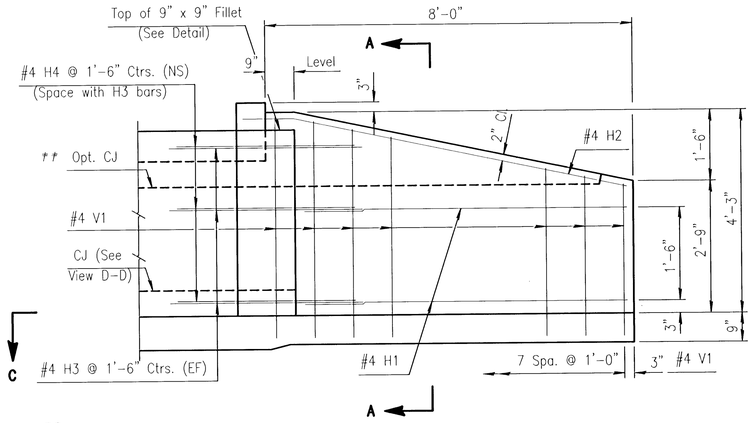
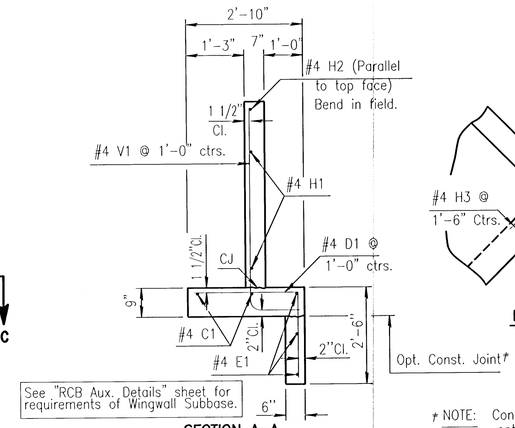


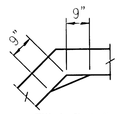
†† See RCB Details for location of construction joint.

ELEVATION OF WINGWALL
(Backface Shown)

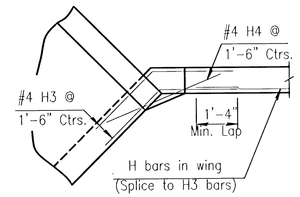


See "RCB Aux. Details" sheet for requirements of Wingwall Subbase.

SECTION A–A



Fillet Detail



DETAIL OF 9" x 9" 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.

GENERAL NOTES

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

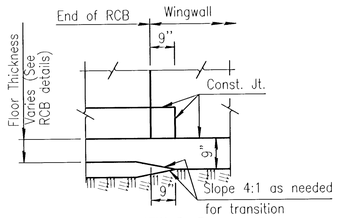
CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular moulding.

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.

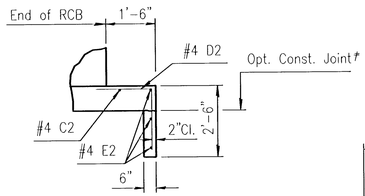
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

APRON: A 5" concrete slab shall be constructed between the down-stream 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.

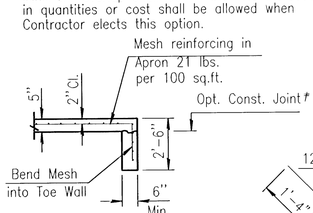


VIEW D–D

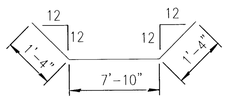


SECTION E–E

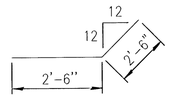
NOTE:
EF = Each Face
NS = Near Side
FS = Far Side
CJ = Const. Joint



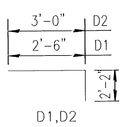
SECTION B–B



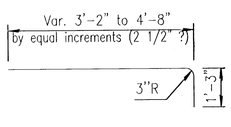
E2



H3

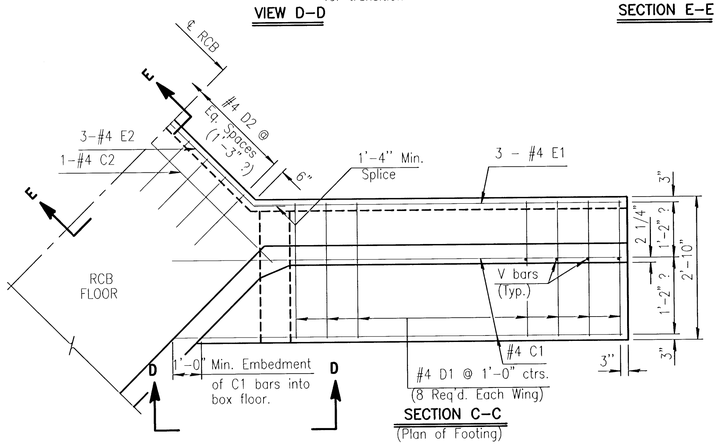


D1,D2

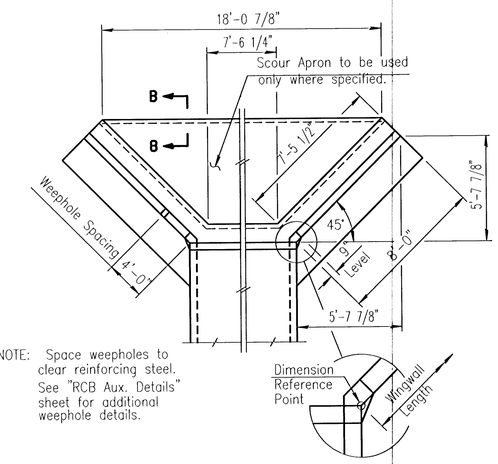


V1
(2 Req'd., each length)

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



SECTION C–C
(Plan of Footing)



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

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

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

WINGWALL QUANTITIES (One End Only)		
Concrete (Grade 4.0):		
Wingwalls	3.7	CY.
Apron	1.7	CY.
Soil Saver	0.0	CY.
Reinforcing Steel	290	Lbs.
Welded Wire Fabric	24	Lbs.

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	16*	6	1	6*	3*	16	4	2	12*	6
	Length	9'-10"	4'-8"	7'-3"	8'-8"	5'-2"	10'-6"	*	6'-10"	8'-9"	5'-0"	3'-0"

NO.	DATE	REVISIONS	BY	APP'D

~~KANSAS DEPARTMENT OF TRANSPORTATION~~
Sta. 0+67.71

3 ft Rise (0° SKEW)

~~BR-10.00.03~~ Sedgwick Co.

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

FINAL

Designed By: JMU/JPD
Drawn By: JPD
Poe Job No.: 1694J
Date: January 2006

Sheet 61 of 78

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

EQUESTRIAN ESTATES ADDITION – PHASE 2
STREET IMPROVEMENTS
RCB DETAILS
CITY OF WICHITA, KANSAS
JAMES L. ARMOUR, P.E. – CITY ENGINEER
C.O.W. Project # 472-83430 O.C.A. # 765969

No.	Date	By	Approved	Revision

SH-1K082