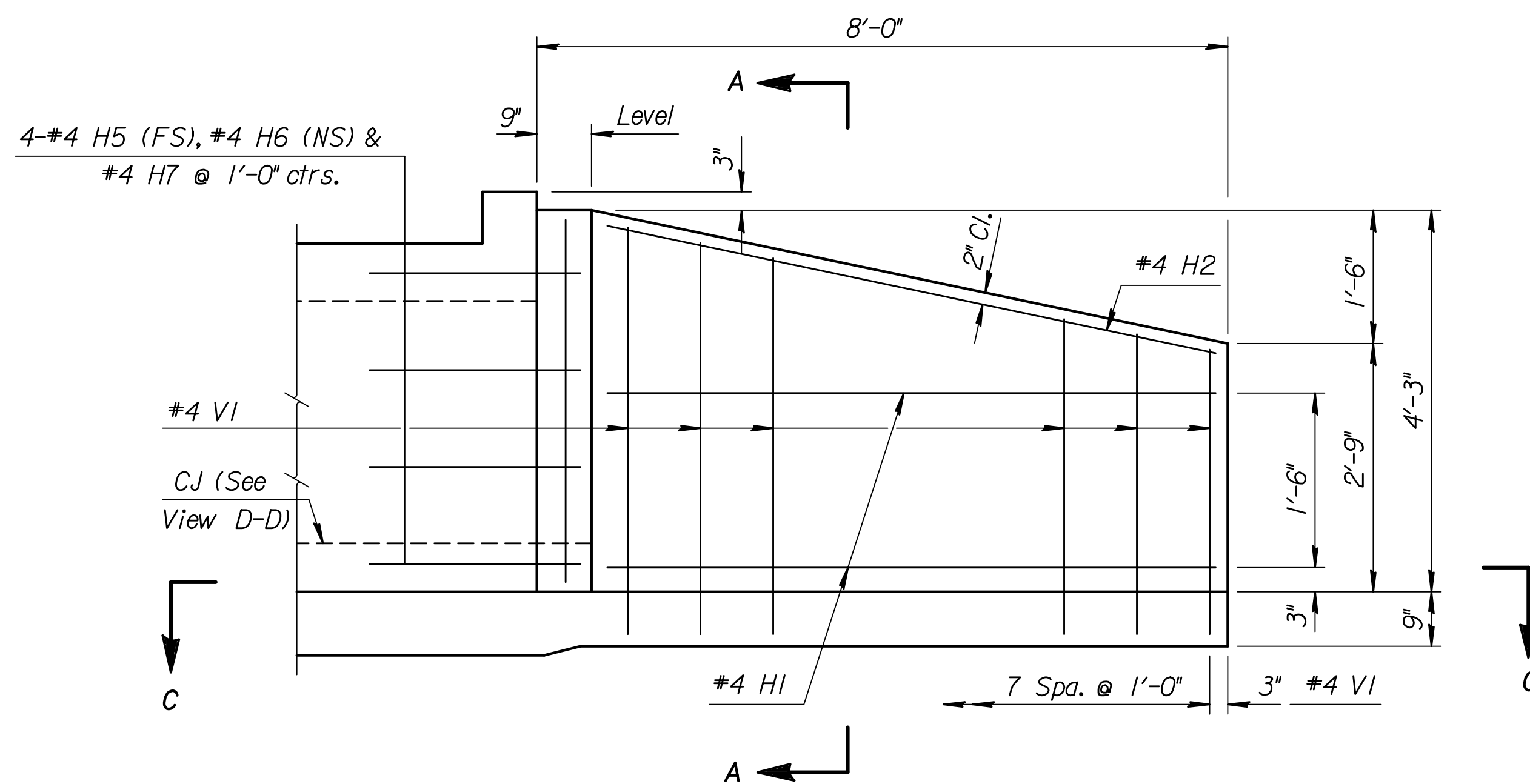


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85282	2017	45	96

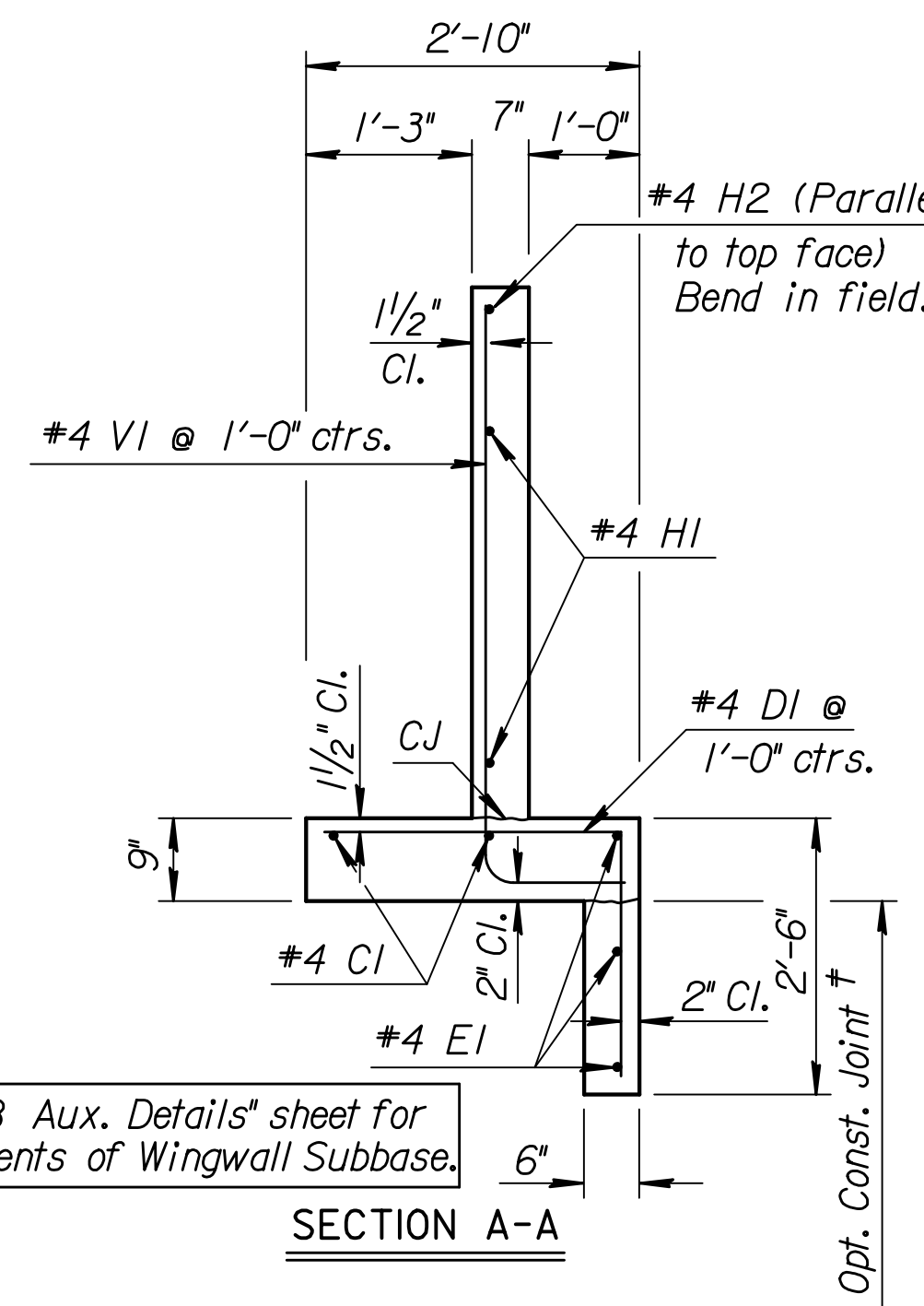
GENERAL NOTES

DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int.
DESIGN LOADING: HL93
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 $\frac{3}{4}$ " 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 centerline of bar unless otherwise noted. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6- W6 x W6 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)
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.
BACKFILL MATERIAL: Use Granular Backfill material meeting the requirements of SB-1, SB-2, SCA-1, SCA-2.
WINGWALL: All wings to limits shown on the "RCB Auxiliary Sheet"
FILTER FABRIC: Separate in-situ material from granular backfill with approved filter fabric complying with Section 1710. Filter Fabric is subsidiary to "Granular Backfill".
FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.

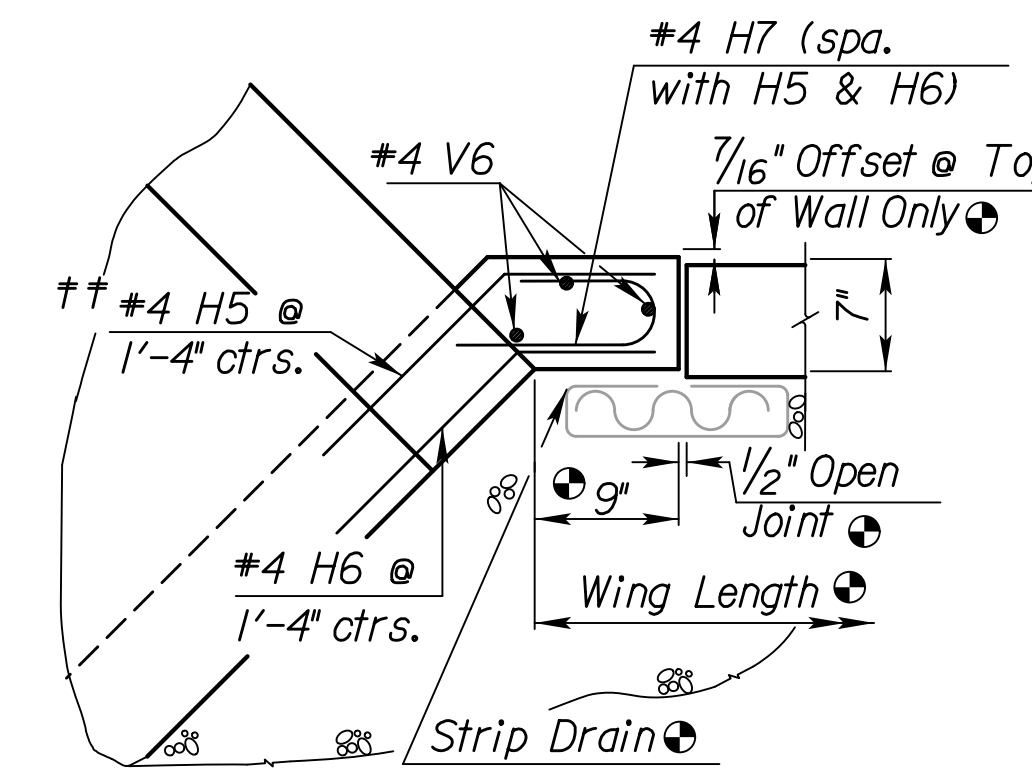
Typical both wings



ELEVATION OF WINGWALL
(Backface Shown)



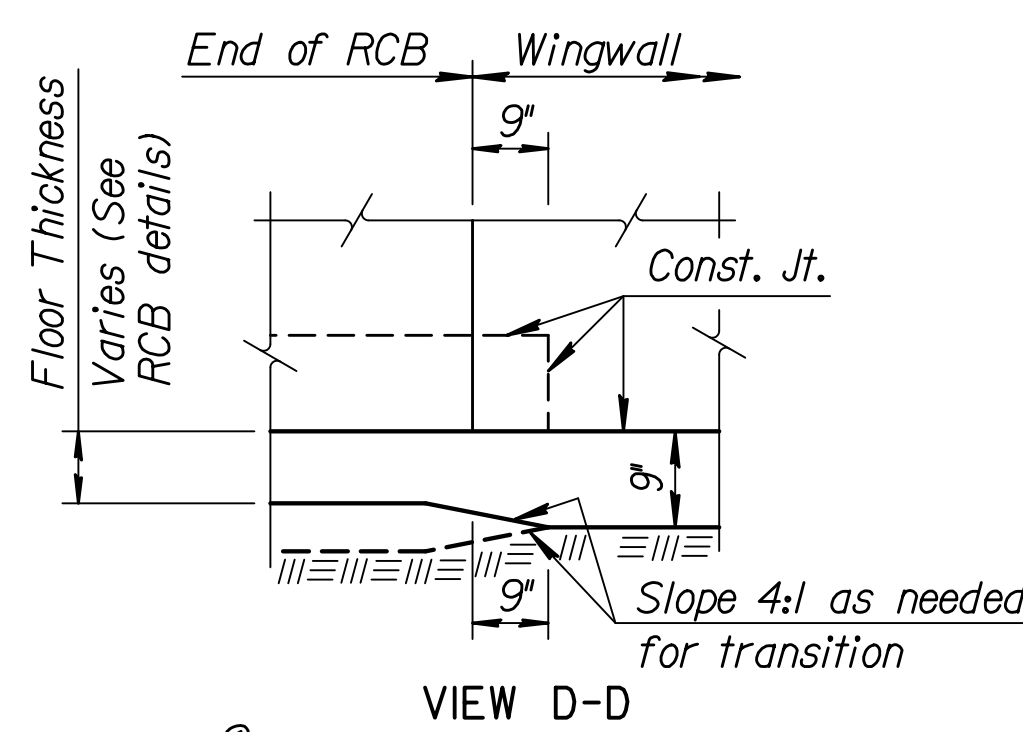
SECTION A-A



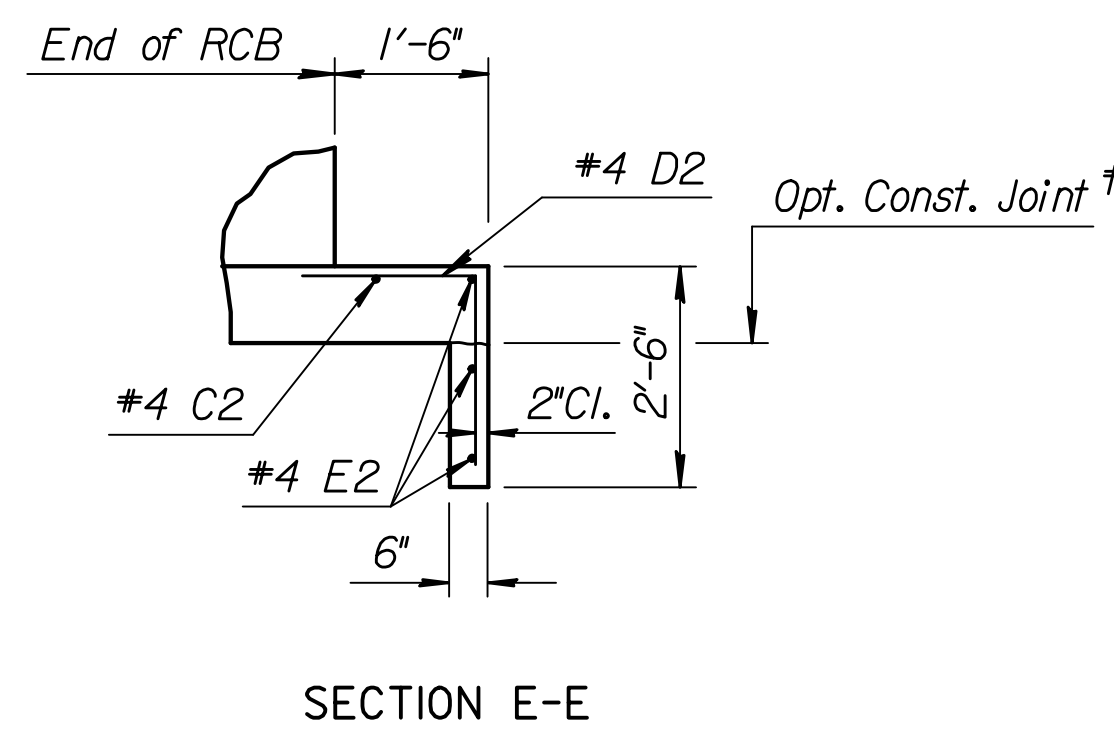
WINGWALL JOINT DETAIL
(Plan View)

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.

See RCB Details for location of construction joint.

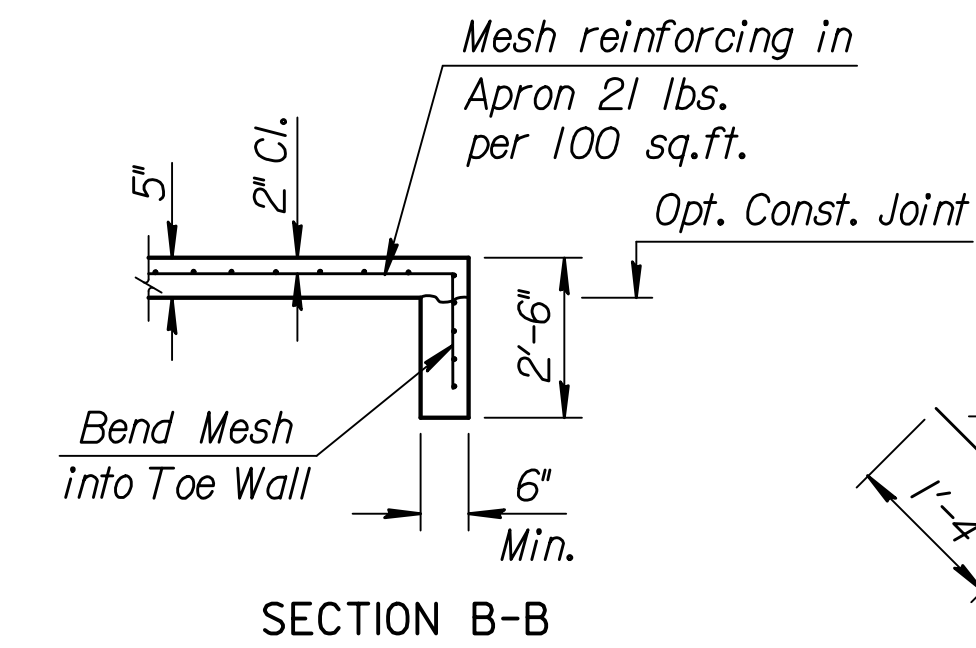


VIEW D-D

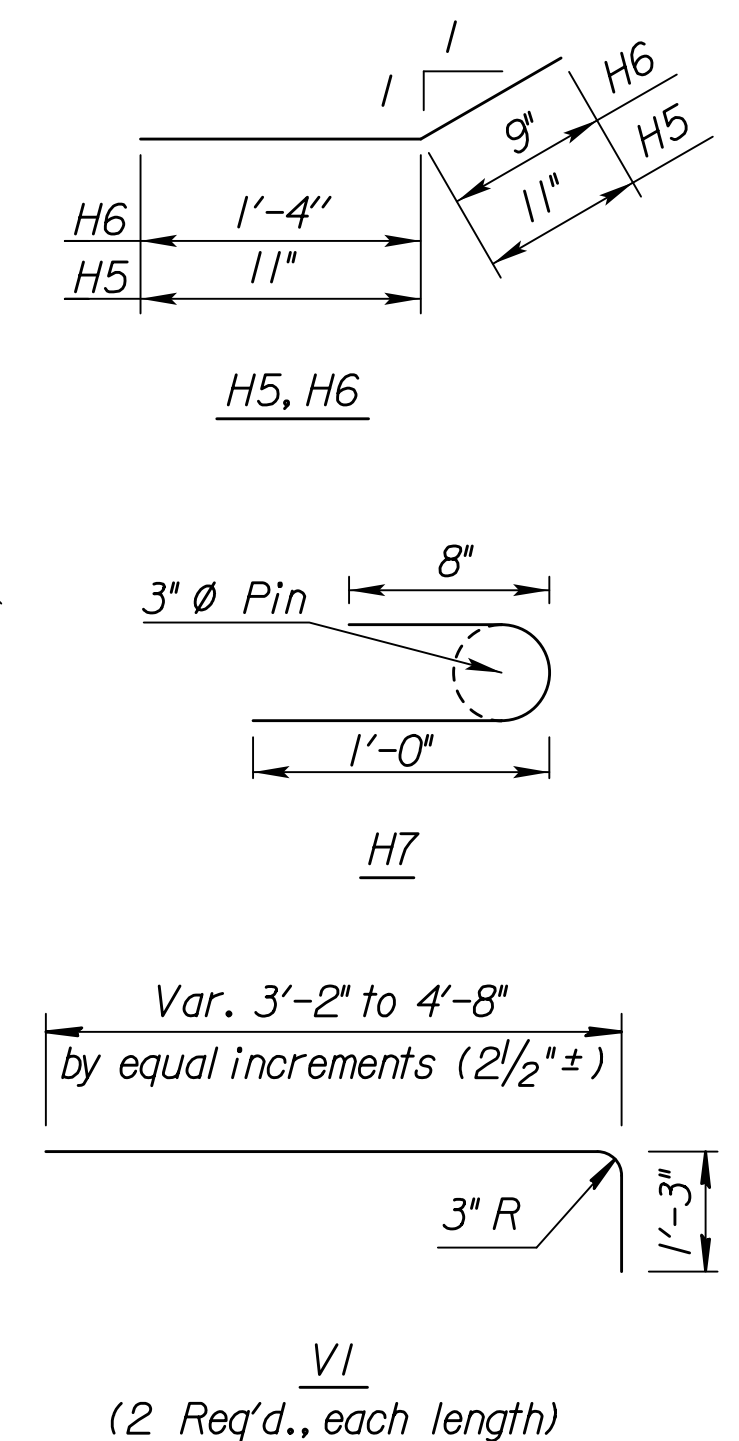


SECTION E-E

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

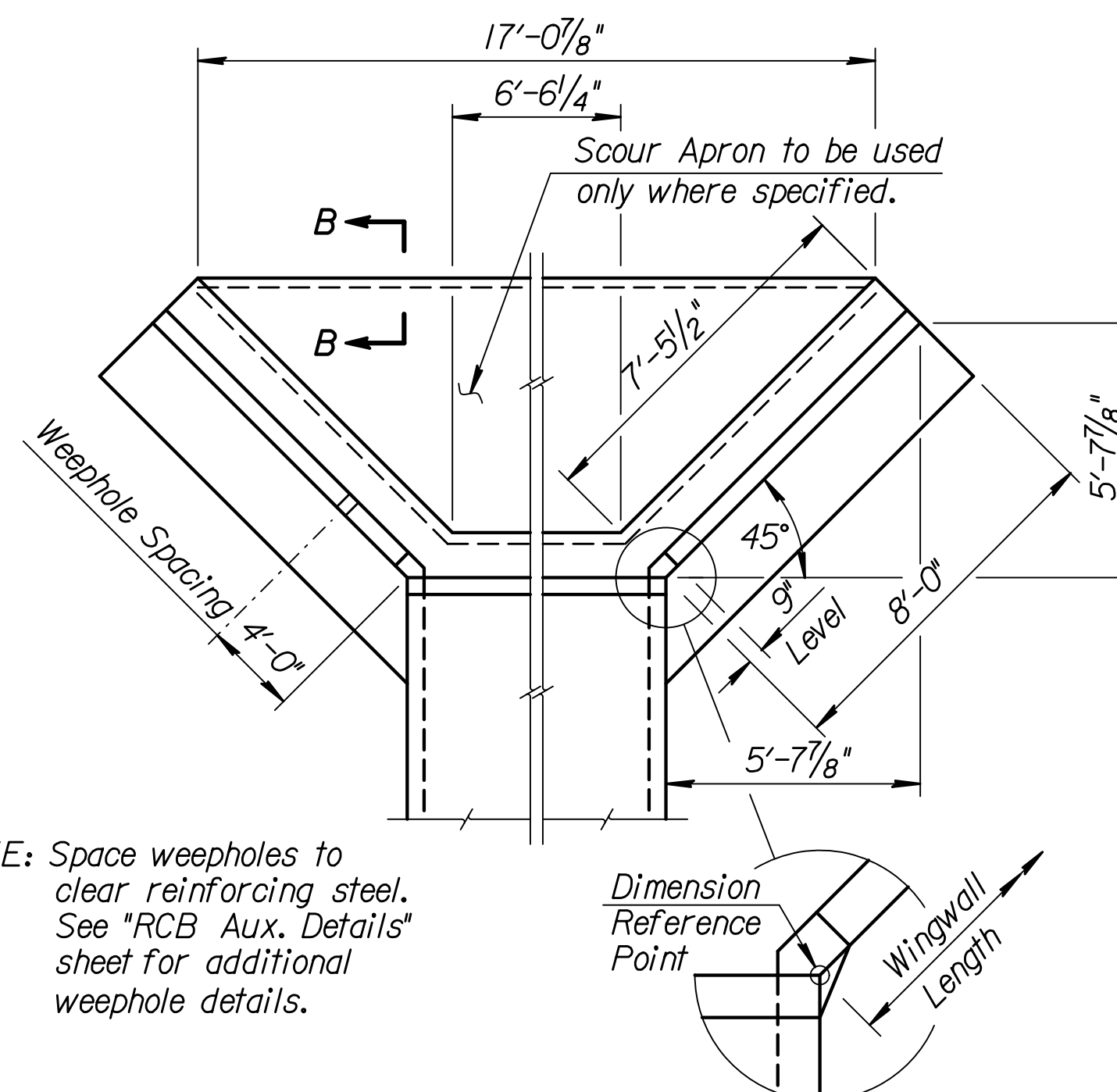


SECTION B-B



BENDING DIAGRAM

(All dimensions are out to out of bars.)

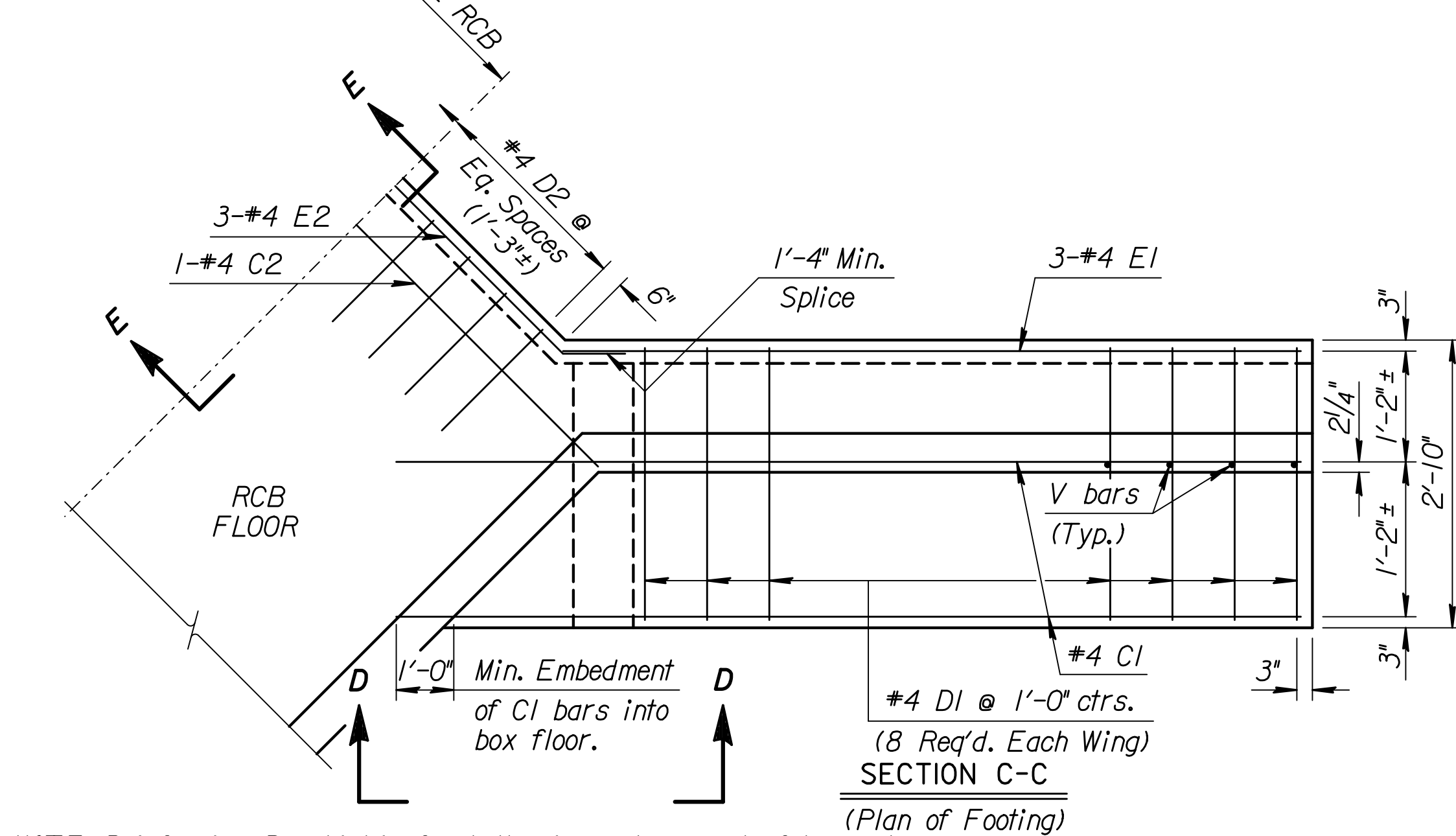


WING DIMENSIONS FOR NORMAL BOX
(3/2:1 Embankment Slope)

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

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

WINGWALL QUANTITIES (One End Only)	
	Foundation Stabilization Concrete (Gr. 4.0)
Wingwalls	1.44 (C.Y.) 3.60 (C.Y.)
Apron	1.00 (C.Y.) 1.60 (C.Y.)
Soil Saver	0.00 (C.Y.) 0.00 (C.Y.)
Reinforcing Steel (Gr. 60)	279 Lbs.
Welded Wire Fabric (Wings)	66 Lbs.
Welded Wire Fabric (Apron)	77 Lbs.
Granular Backfill (Wingwalls)	9.00 C.Y.
Filter Fabric (subsidiary)	15.00 S.Y.



SECTION C-C
(Plan of Footing)

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

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

NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
FLARED WINGWALLS 3 ft+ Rise (0° SKEW)				
Proj. No. 472-85282		CITY OF WICHITA		
DESIGNED	TRACED	QUANTITIES	DESIGNED	APP'D
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	Terry L. Fleck

Plotted By: msn
 File: USWichita-Civil\2015\15956\000\Trans\Bridges\Wingwall\Proj\45_Tx3_Wingwall.dgn
 Plot Date: 7/21/2017