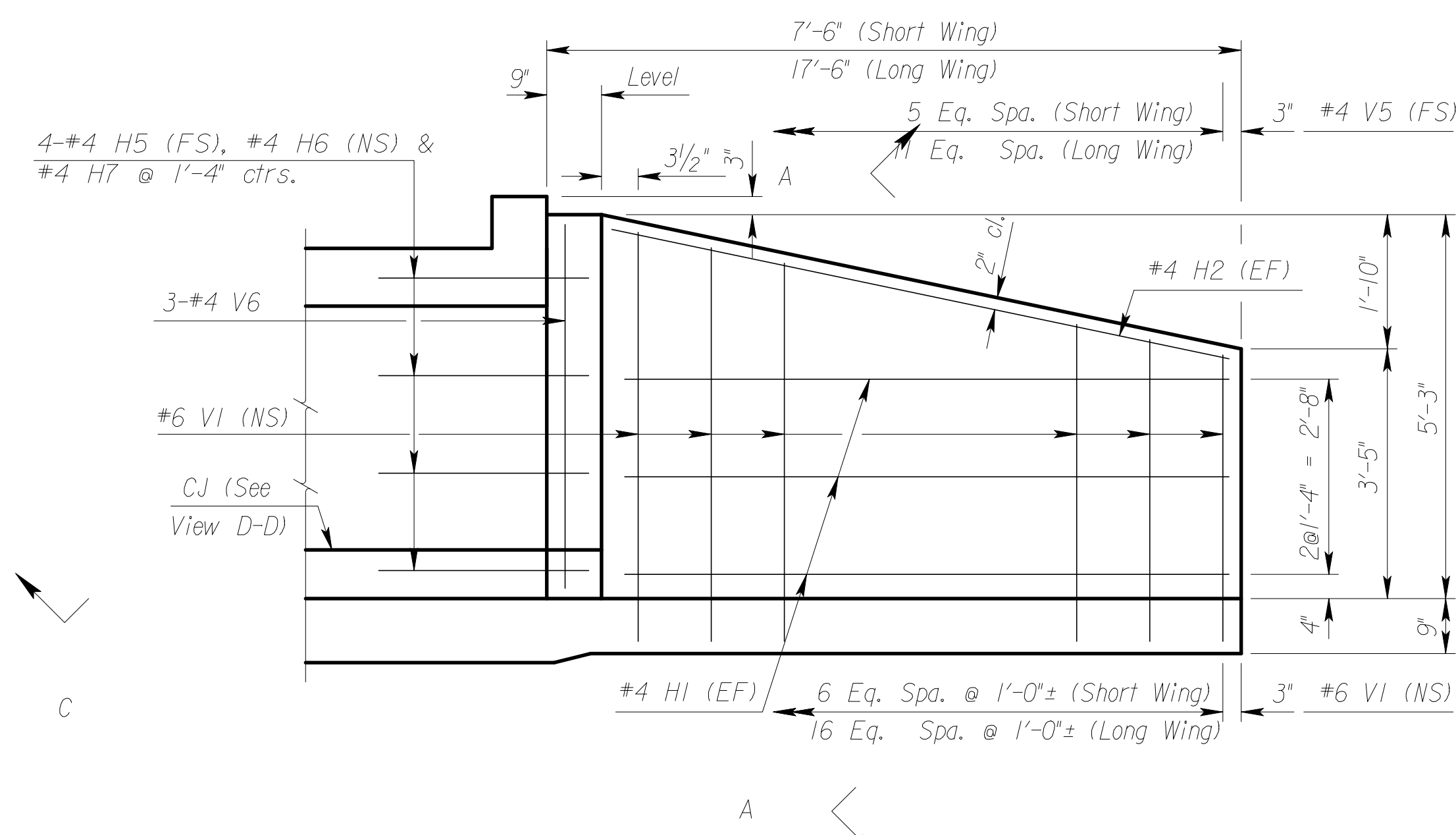


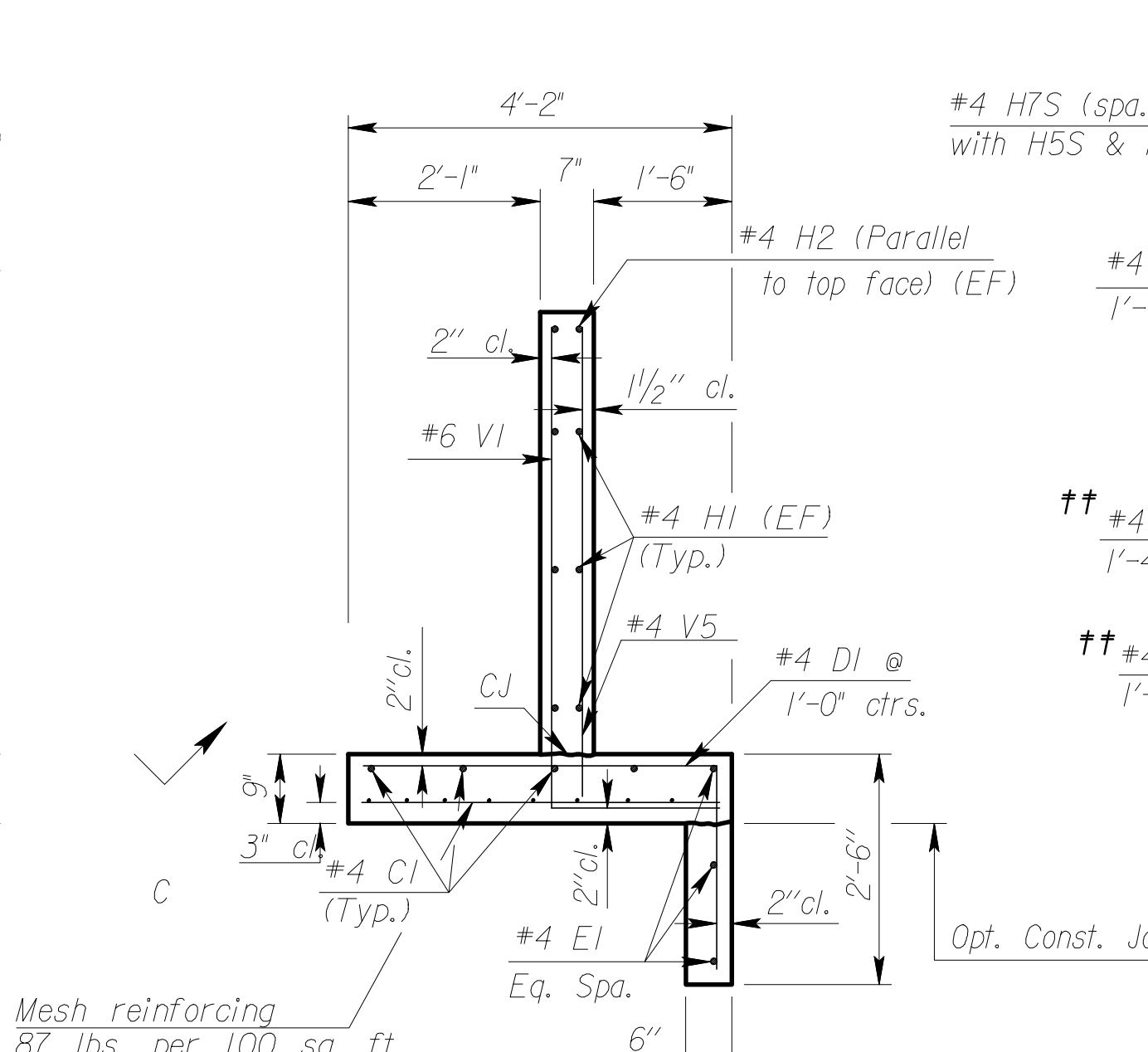
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	1858	2014	16	43

GENERAL NOTES

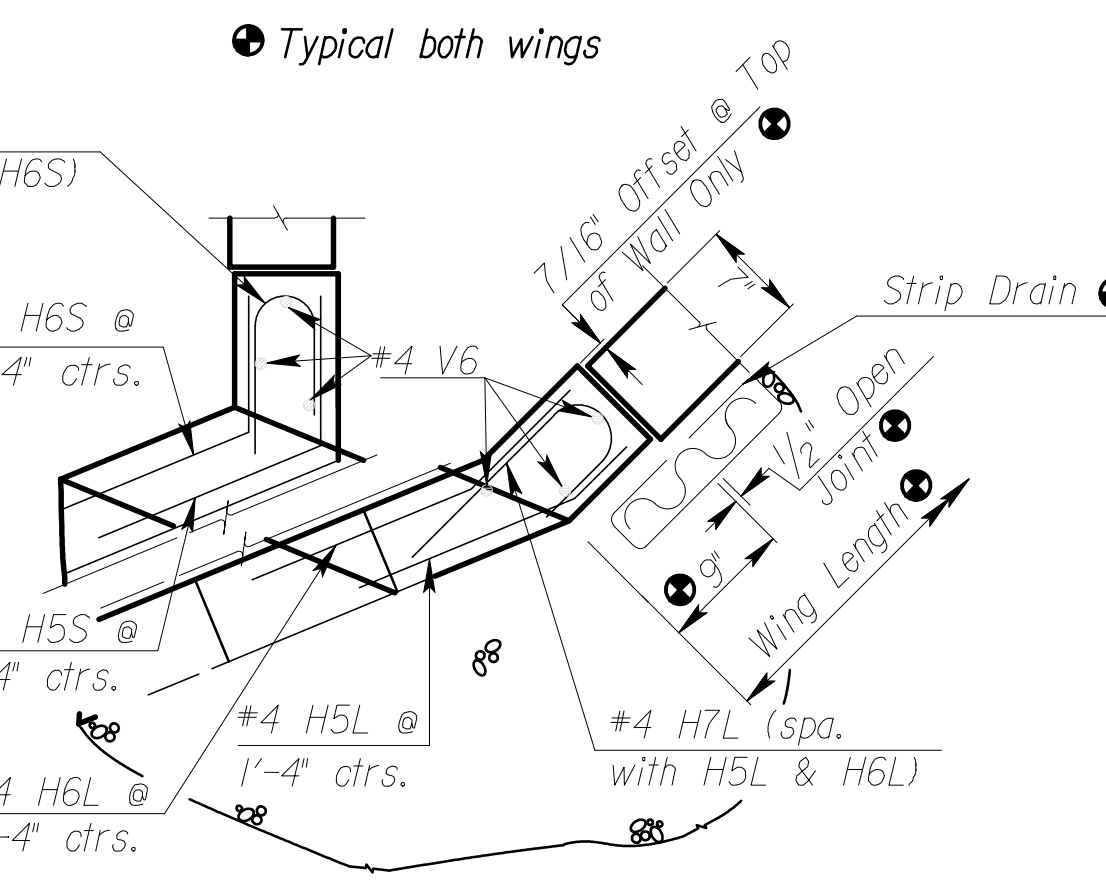
DESIGN SPECIFICATION: AASHTO LRFD Spec., 2007 Ed., 2009 Int.
DESIGN LOADING: HL93
UNIT STRESSES: Grade 4.0 Concrete; f'c = 4,000 p.s.i. Reinforcing Steel; fy = 60,000 p.s.i.
CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a 3/4" triangular moulding.
REINFORCING: All 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. 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 below the down-stream 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-2, SCA-3 or SCA-5. Backfill 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.



ELEVATION OF WINGWALL
(Backface Shown)



SECTION A-A

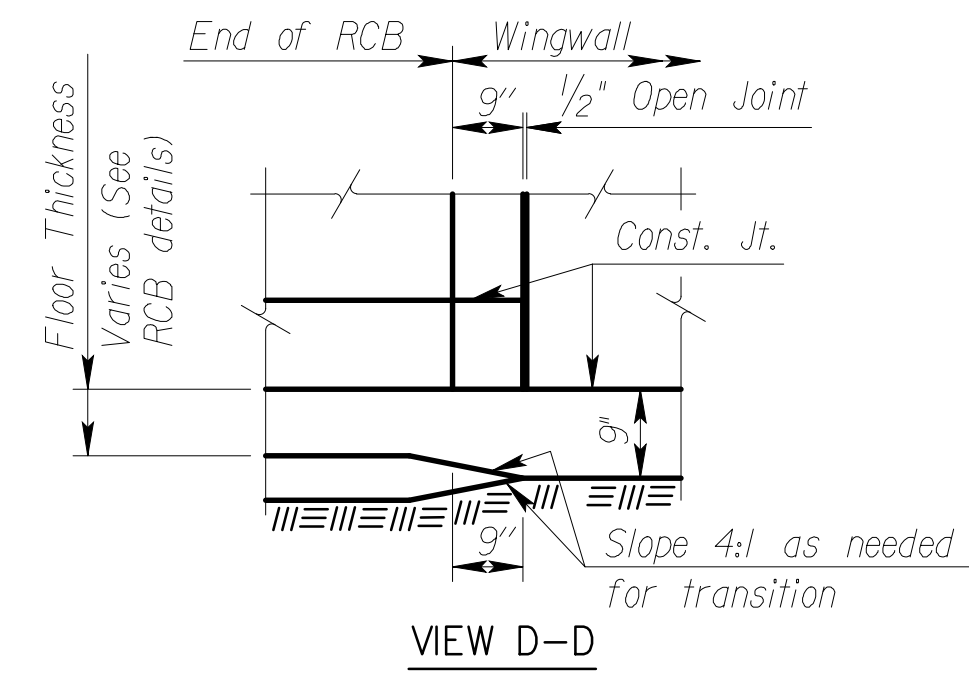


WINGWALL JOINT DETAIL
(Plan View)

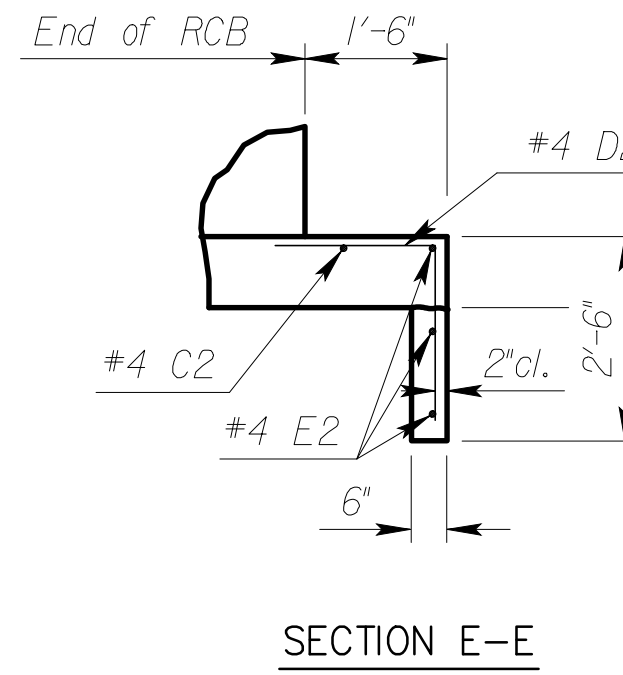
† NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. DI bars or mesh may be spliced thus: Minimum overlap shall be 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.

See "RCB Aux. Details" sheet for additional requirements.

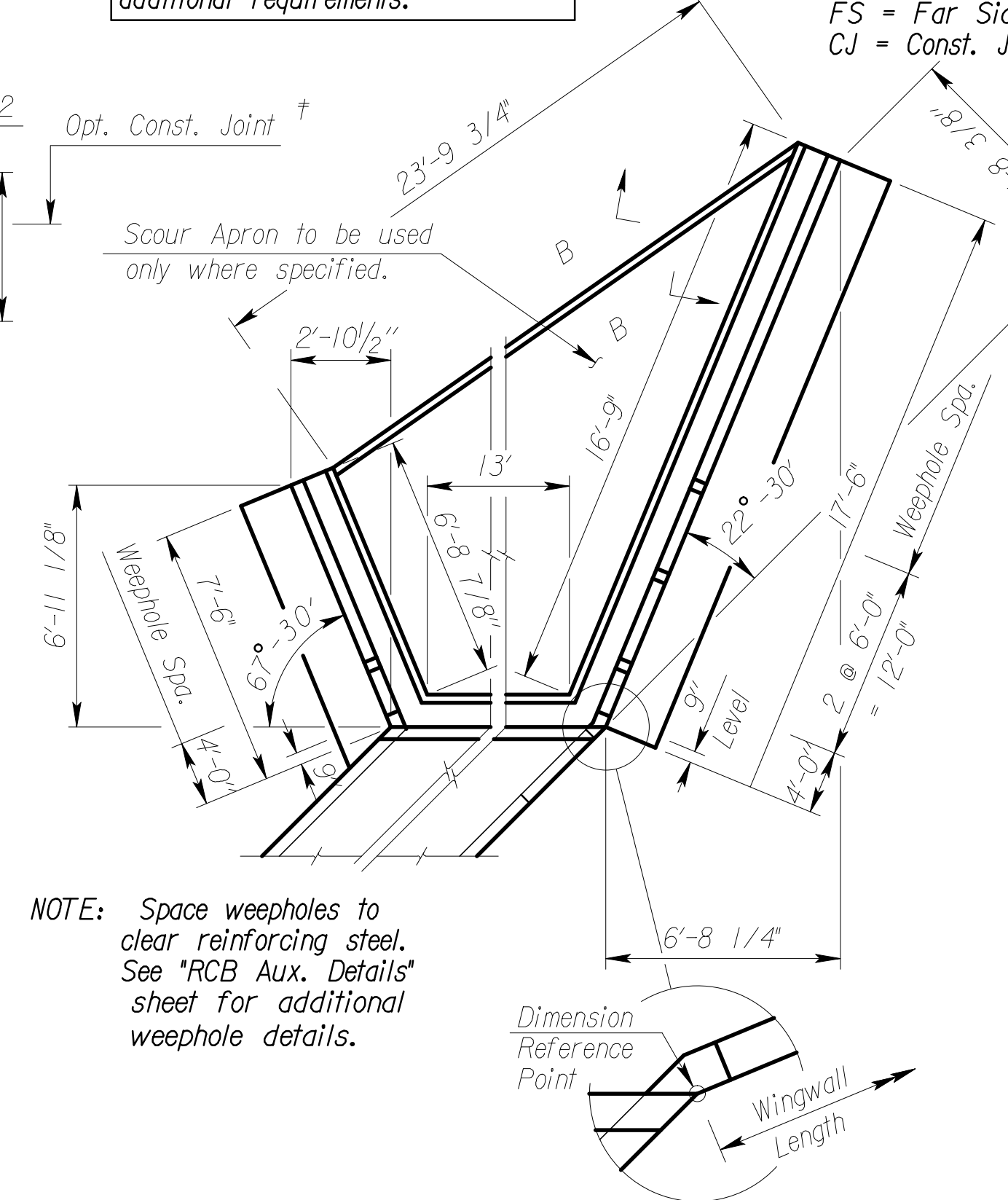
NOTE:
 EF = Each Face
 NS = Near Side
 FS = Far Side
 CJ = Const. Joint



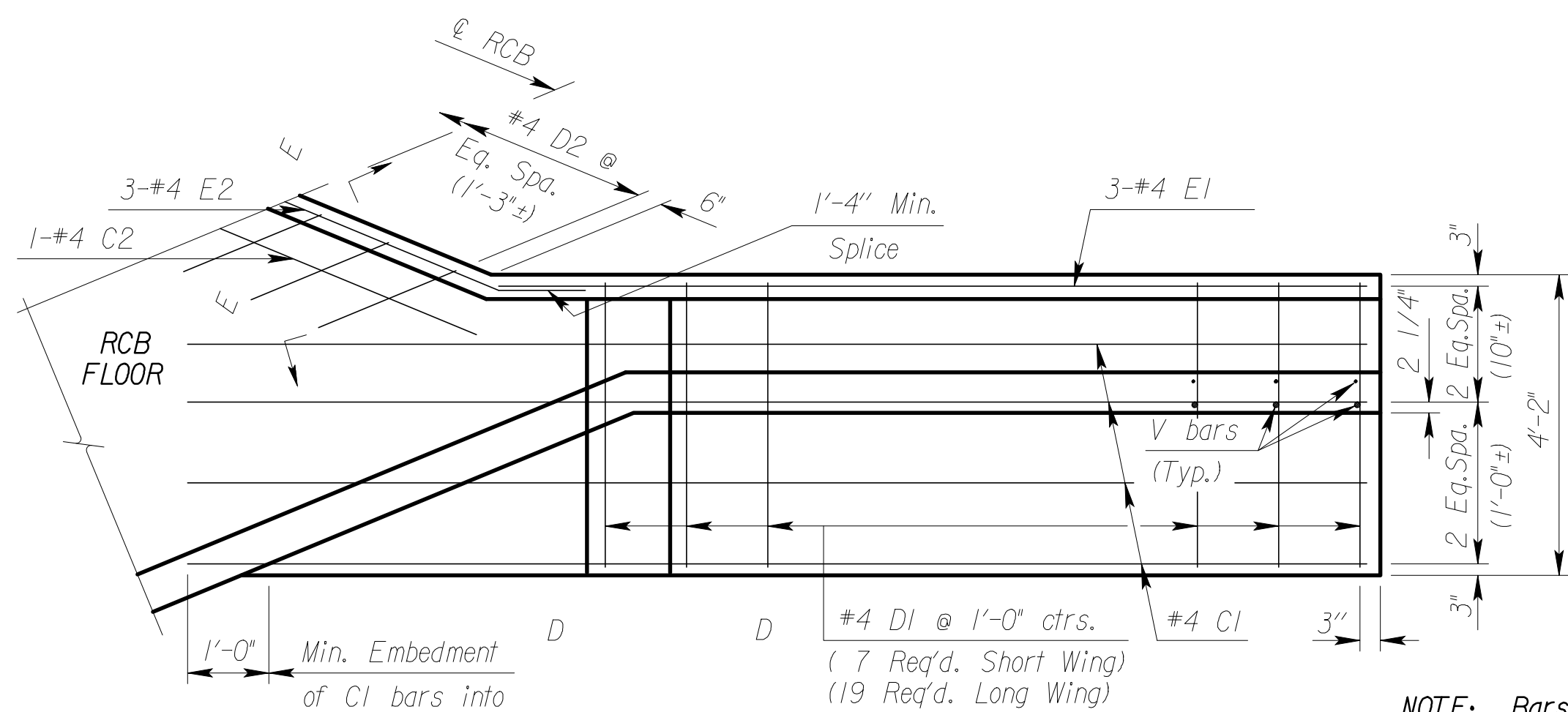
VIEW D-D



SECTION E-E



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



SECTION C-C
(Plan of Footing)

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	2.90 (C.Y.)	7.34 (C.Y.)
Apron	0.00 (C.Y.)	0.00 (C.Y.)
Soil Saver	0.00 (C.Y.)	0.00 (C.Y.)
Reinforcing Steel (Gr. 60)	767 Lbs.	
Welded Wire Fabric (Wings)	91 Lbs.	
Welded Wire Fabric (Apron)	0 Lbs.	
Granular Backfill (Wingwalls)	18.00 C.Y.	
Filter Fabric (subsidiary)	25.00 S.Y.	

BENDING DIAGRAM

(All dimensions are out to out of bars.)
 †† Bend in Field

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

45° Skew	Mark	#4 CIS	#4 CIL	#4 DI	#4 EIS	#4 EIL	#4 C2	#4 D2	#4 E2	#6 VIS	#6 VIL	#4 HIS	#4 HIL	#4 H2S	#4 H2L	#4 H5S	#4 H5L	#4 H6S	#4 H6L	#4 H7S	#4 H7L	#4 V5S	#4 V5L	#4 V6
	Number	4	4	26 *	3	3	1	10 *	3 *	7	17	6	6	2	2	4 *	4 *	4 *	4 *	4 *	4 *	6	12	6
	Length	9'-3"	22'-10"	6'-0"	6'-6"	18'-5"	16'-0"	5'-8"	15'-9"	*	*	6'-4"	16'-4"	6'-5"	16'-4"	2'-10"	2'-1"	2'-9"	2'-4"	1'-4"	1'-7"	*	*	5'-0"

KANSAS DEPARTMENT OF TRANSPORTATION
 Serial No.(000) Sta. 8+10.00

FLARED WINGWALLS
4 ft Rise (45° SKEW)

BR 10.45.04

Sedgwick Co.

DESIGNED	DATE	Detailed	QUANTITIES	CADD
DESIGN CK.		DETAIL CK.	QUAN. CK.	CADD CK.

SOUTHFORK COMMERCIAL ADDITION
PAVING & DRAINAGE IMPROVEMENTS
FLARED WINGWALLS
CITY OF WICHITA, KANSAS
 GARY JANZEN, P.E. - CITY ENGINEER
 PROJECT NO. 468-84626 OCA NO. (751507)
 PROJECT NO. 472-85050 OCA NO. (766279)

POE & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 5940 E. Central, Suite 200 • Wichita, KS 67208-4242
 Phone 316.665-4111 • FAX 316.665-4444

FLARE

3				
2				
1				
NO.	DATE	REVISIONS	BY	APP'D

Engineer: T. AUSTIN
 Designer: M. TUCKER
 Proj. Job No.: 1858
 Date: JANUARY 2014

Sheet
 16 of 43