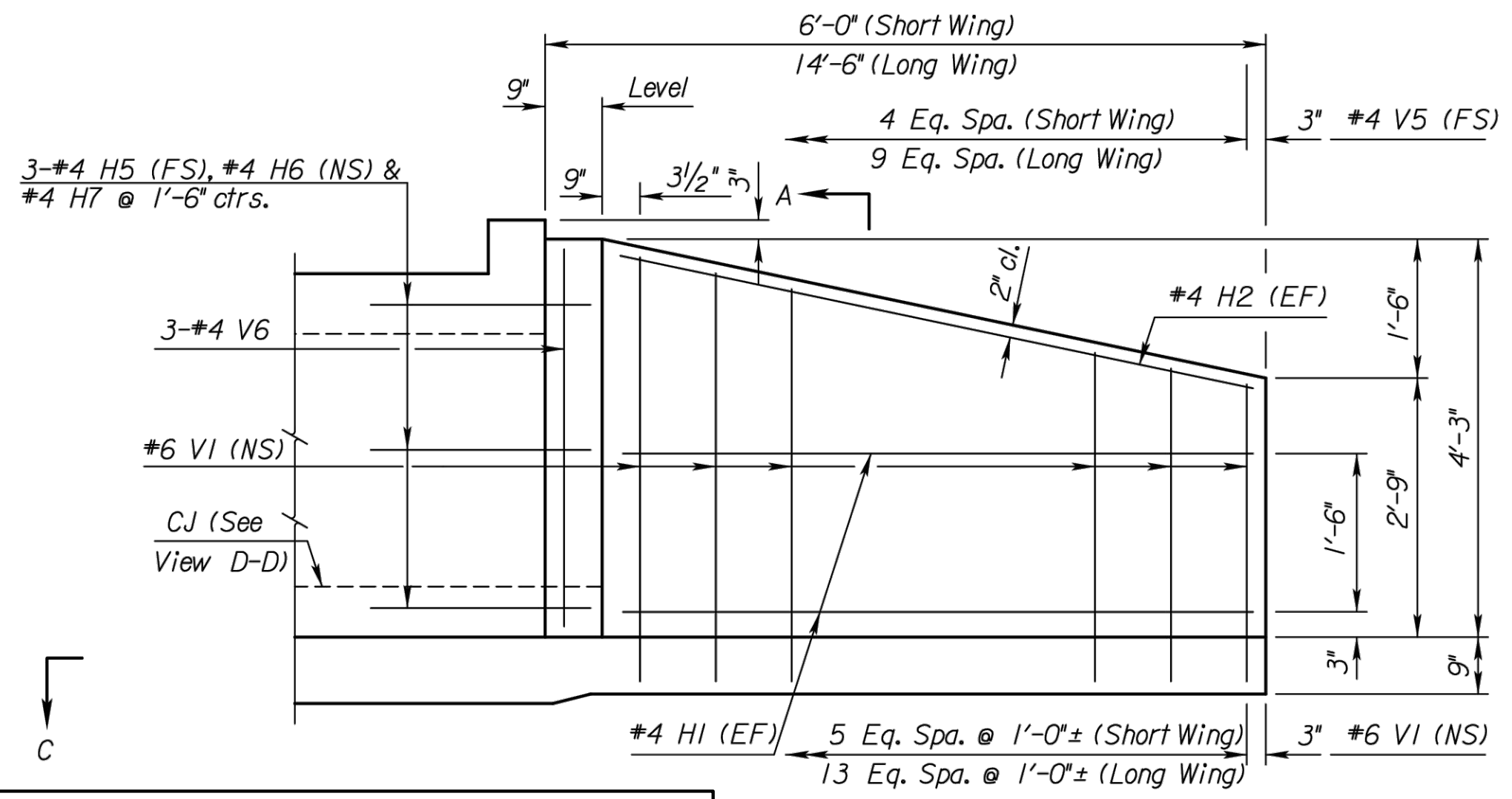


WEST STREET IMPROVEMENTS FROM MACARTHUR ROAD TO 47TH ST. SOUTH CITY OF WICHITA

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				

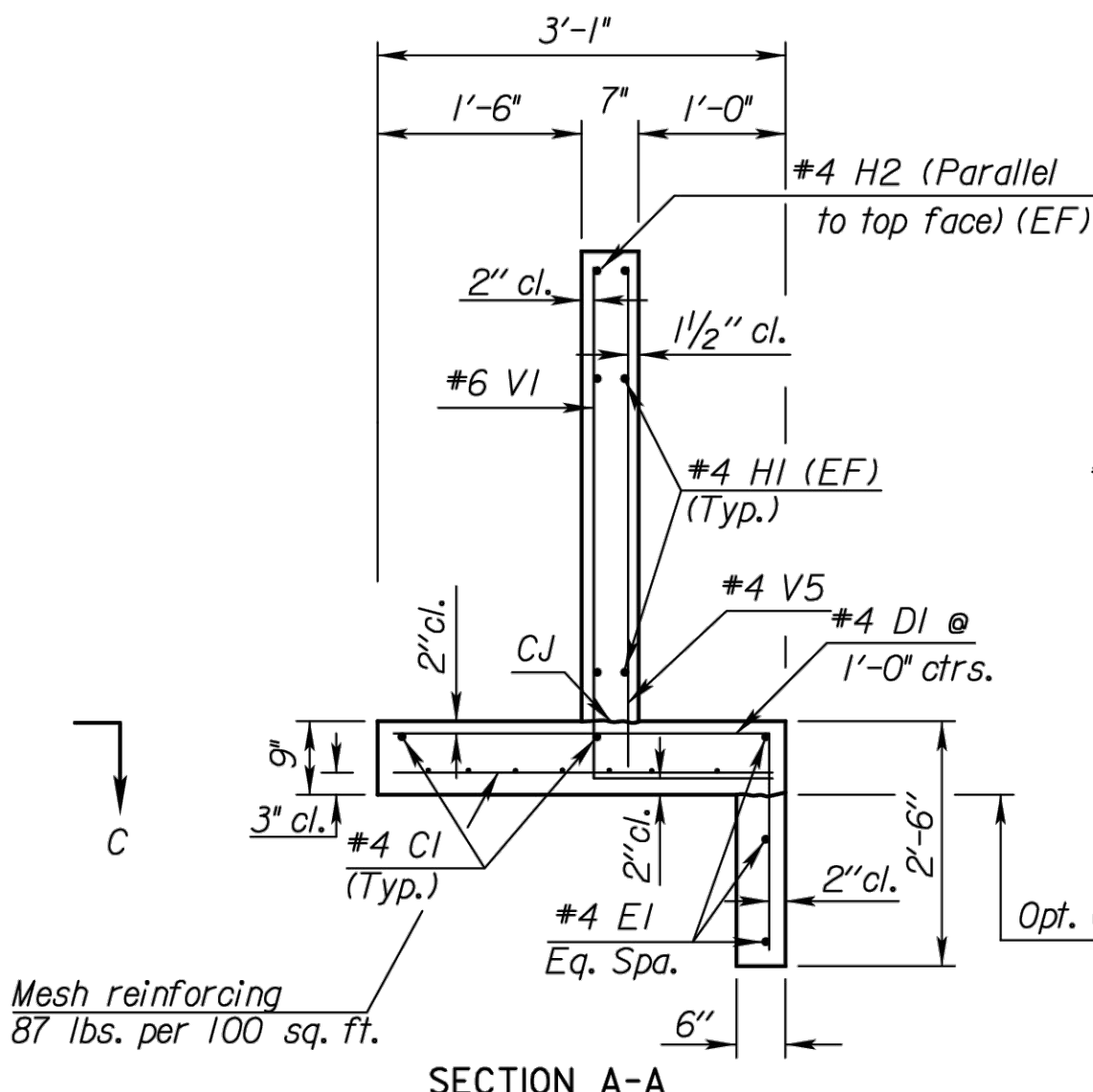
GENERAL NOTES

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 3/8" triangular mauling.
 REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Reinforcement shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted. Welded Wire Reinforcement 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.
 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.



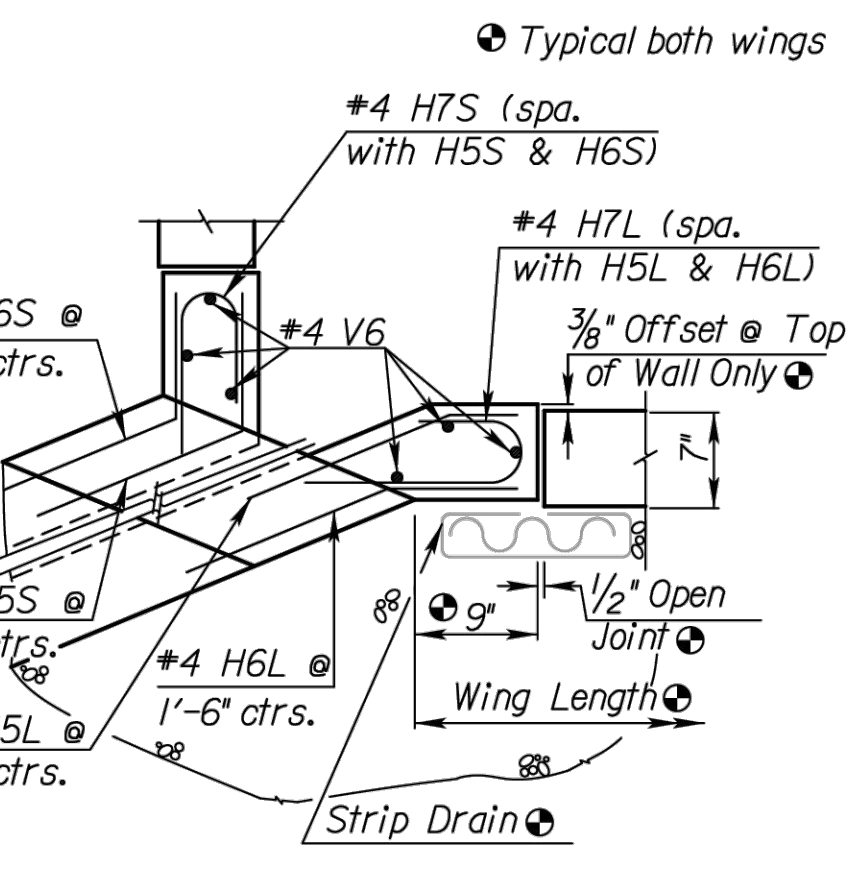
PAYMENT: THE BID ITEM "2-8'X3' BOX CULVERT CROSSING & WINGWALL" SHALL INCLUDE ALL MATERIALS AND INCIDENTALS FOR THE CONSTRUCTION OF THE BOX CULVERT CROSSING WEST STREET (SWS LINE 8). QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

ELEVATION OF WINGWALL (Backface Shown)



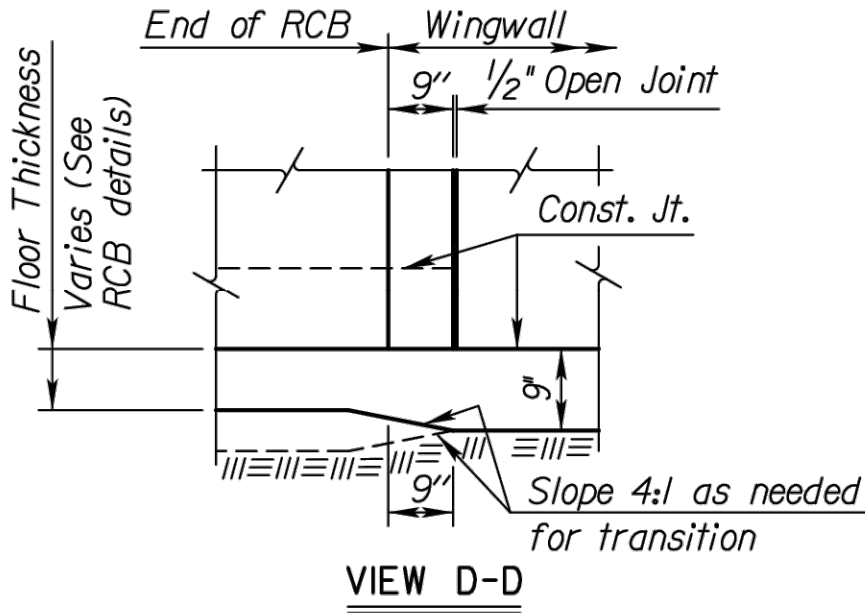
SECTION A-A

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

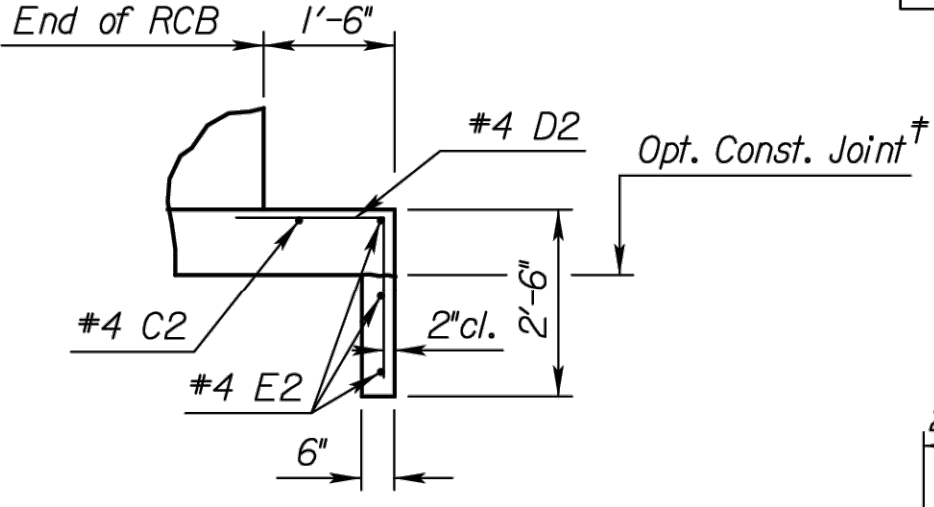


WINGWALL JOINT DETAIL (Plan View)

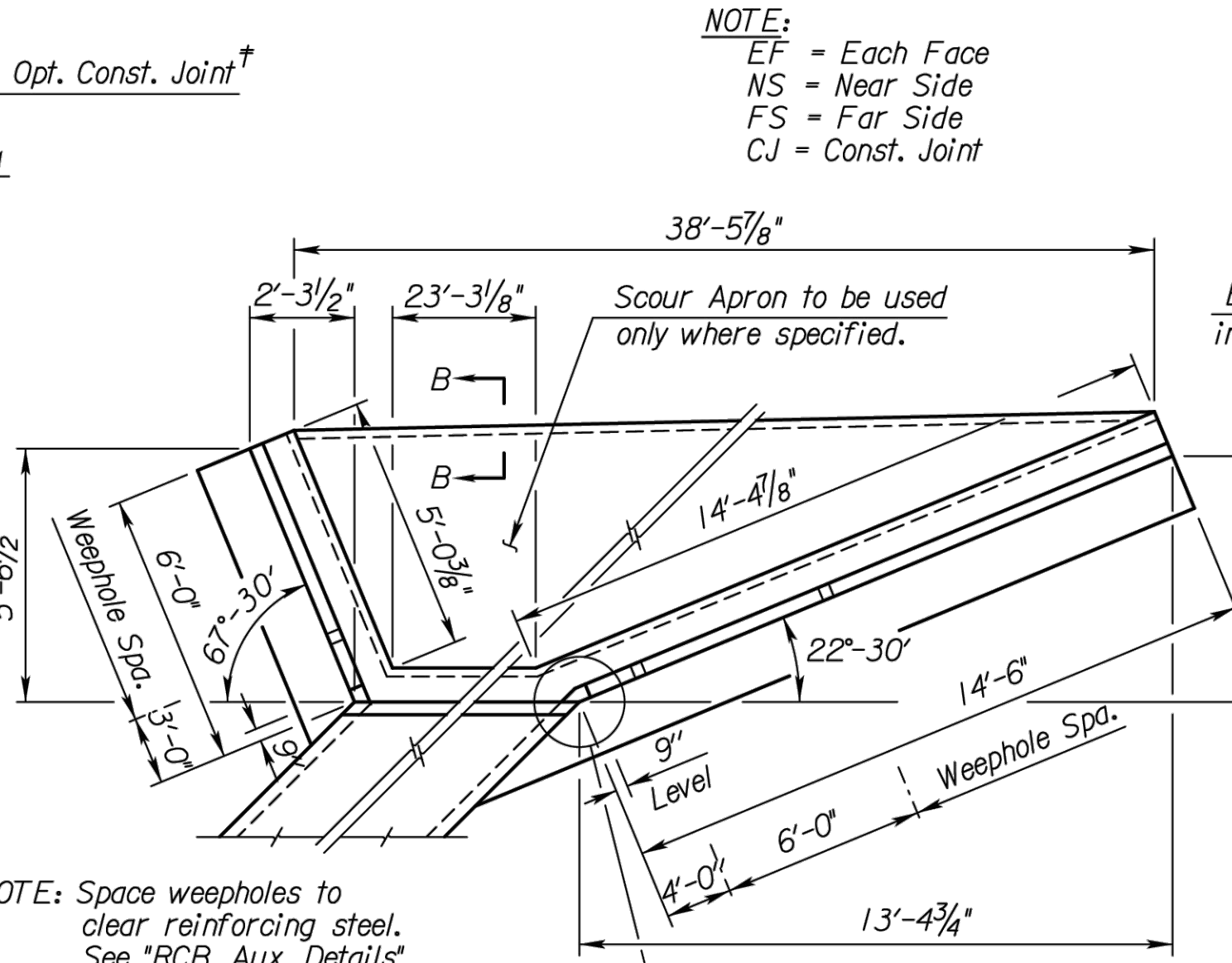
NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. DI bars or mesh may be spliced thus: Minimum overlap shall be 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.



VIEW D-D

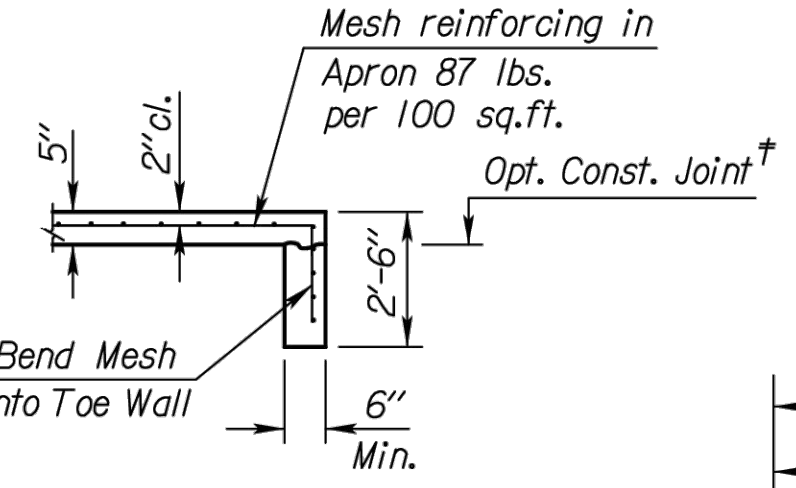


SECTION E-E



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

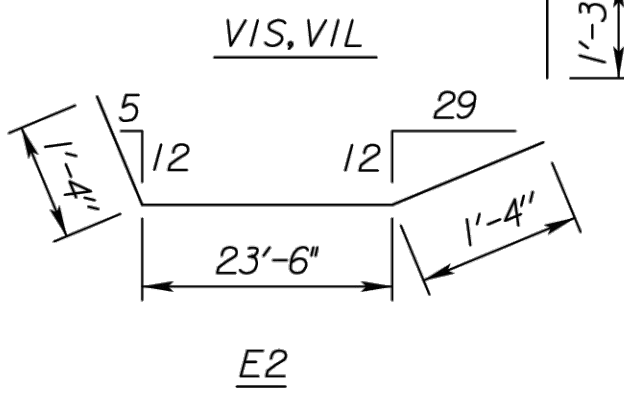
NOTE: Space weepholes to clear reinforcing steel. See "RCB Aux. Details" sheet for additional weephole details.



SECTION B-B

Bar	Incrmts.
VIS	3 3/8" ±
VIL	1 1/4" ±
V5S	4 1/4" ±
V5L	1 7/8" ±

Var. 3'-2" to 4'-7" by equal increments (See Table)
 V5S, V5L
 Var. 3'-2" to 4'-7" by equal increments (See Table)
 VIS, VIL



BENDING DIAGRAM

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

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	1.90 (C.Y.)	5.83 (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)		587 Lbs.
Welded Wire Fabric (Wings)		55 Lbs.
Welded Wire Fabric (Apron)		0 Lbs.
Granular Backfill (Wingwalls)		11.00 C.Y.
Filter Fabric (subsidiary)		18.00 S.Y.

NO.	DATE	REVISIONS	BY	APP'D
1				
2				
3				

KANSAS DEPARTMENT OF TRANSPORTATION
 BR. No. XXX-07-XXX(000) Sta. 144+83.91
 FLARED WINGWALLS
 3 ft Rise (45° SKEW)
 BR-10-45-03 Sedgwick Co.
 FHWA APPROVAL: Terry L. Fieck
 DESIGNED: QUANTITIES: CADD
 DESIGN CK. DETAIL CK. QUAN. CK. CADD CK.

CADconform Certify This File

Issue:	
JOB NO.	210254-001
DATE	OCTOBER 2024
PM	TPA
DESIGNED BY	LGP
DRAWN BY	CP
CHECKED BY	KMS

RCB WING DETAILS

CB104 93 OF 206

SAVED 10/10/2024 3:20:15 PM BY LUKE.PETER
 PLOTTED 10/10/2024 3:20:34 PM BY LUKE.PETER
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 Plotted By: darrins
 File: 2024-3-14_210254-001_2-8x3.dgn
 Plot Date: 14-MAR-2024 11:04