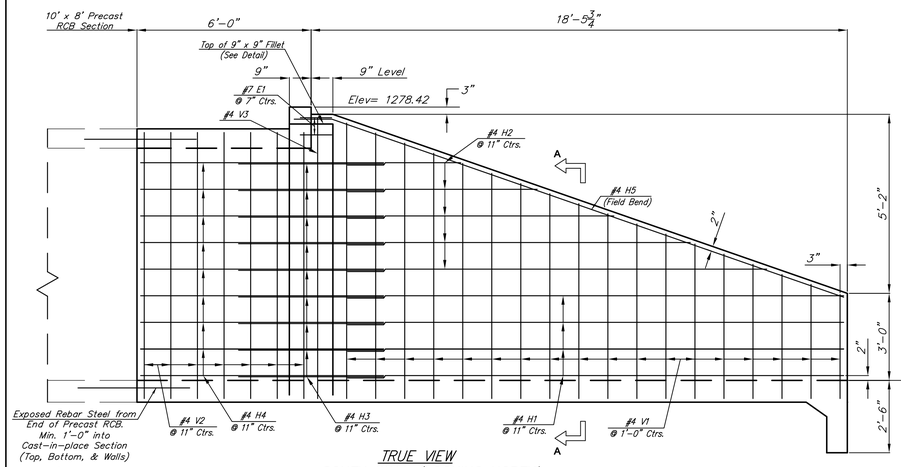
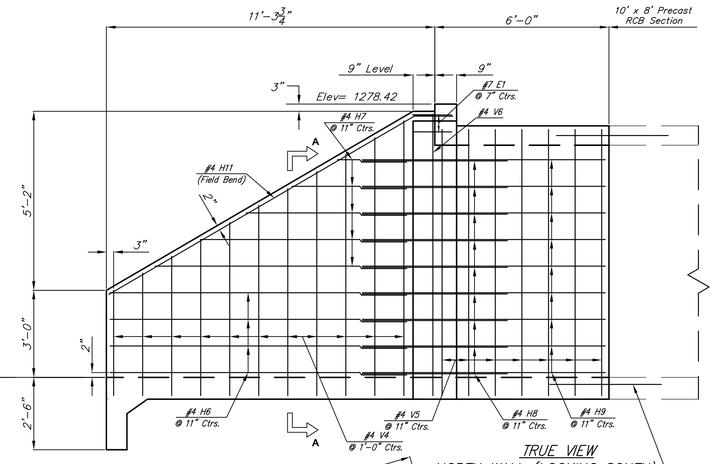
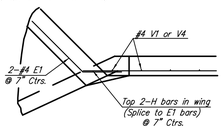


TRUE VIEW
SOUTH WALL (LOOKING NORTH)

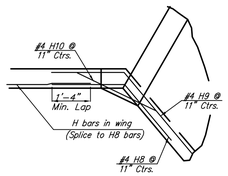


TRUE VIEW
NORTH WALL (LOOKING SOUTH)

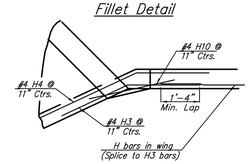


DETAIL OF WINGWALL
TO RCB HEADWALL
(Plan View)

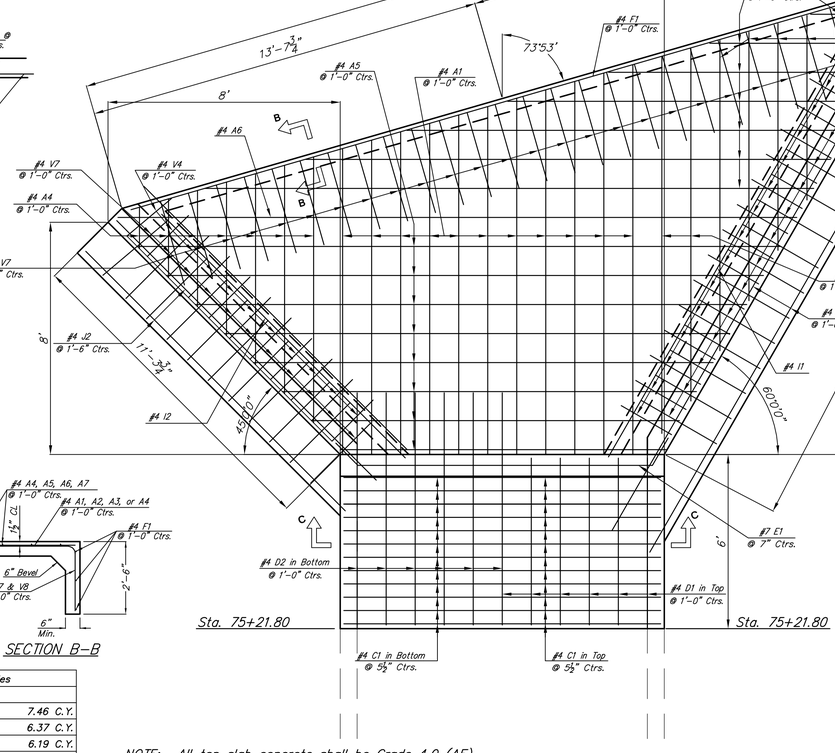
Fillet Detail



NORTH WALL

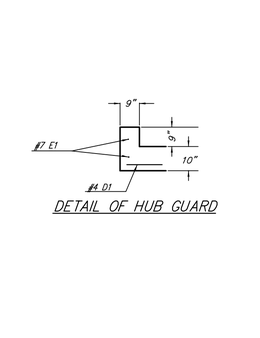


SOUTH WALL



SECTION C-C

SECTION B-B



SECTION A-A

DETAIL OF HUB GUARD

Var. 10'-6 1/2" to 13'-5" by equal increments (3 1/2"±)

A1

Var. 2'-1/2" to 10'-8 1/2" by equal increments (17 1/4"±)

A2

Var.12'-1 3/4" to 12'-11 3/4" by equal increments (10"±)

A3

Var. 1'-5" to 9'-1 3/4" by equal increments (15 1/2"±)

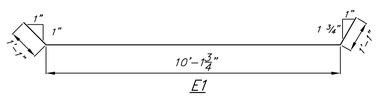
A4

Var. 11'-3" to 22'-3 1/2" by equal increments (19"±)

A5

Var. 3'-6 3/4" to 20'-11 3/4" by equal increments (34 3/4"±)

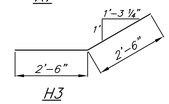
A7



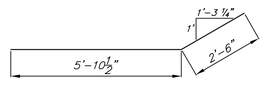
E1

Var. 3'-10 3/4" to 14'-5 1/4" by equal increments (35 1/4"±)

H2



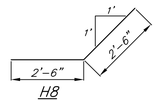
H3



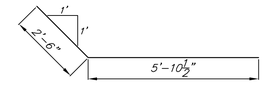
H4

Var. 2'-4 3/4" to 8'-8 1/4" by equal increments (21 3/4"±)

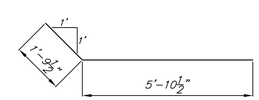
H7



H8

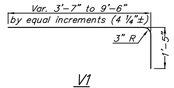


H9



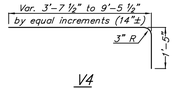
H10

Var. 3'-7" to 9'-6" by equal increments (4 1/4"±)

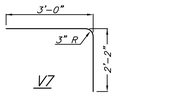


V1

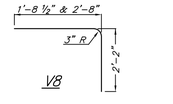
Var. 3'-7 1/2" to 9'-5 1/2" by equal increments (14"±)



V4



V7



V8

Summary of Quantities	
Concrete (Grade 4.0)	
Wingwalls	7.46 C.Y.
Apron	6.37 C.Y.
Box	6.19 C.Y.
Soil Saver	0.0 C.Y.
Reinforcing Steel	1,738.7 Lbs
Welded Wire Fabric	0.0 Lbs

NOTE: All top slab concrete shall be Grade 4.0 (AE). All Top Slab and Hubguard reinforcement steel shall be epoxy coated.

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

△ = Epoxy Coated

* See Bending Diagram

Bar Schedule	#4 A1	#4 A2	#4 A3	#4 A4	#4 A5	#4 A6	#4 A7	#4 C1	#4 D1	#4 D2	#7 E1 △	#4 F1	#4 H1	#4 H2	#4 H3	#4 H4	#4 H5	#4 H6	#4 H7	#4 H8	#4 H9	#4 H10	#4 I1	#4 I2	#4 J1	#4 J2	#4 V1	#4 V2	#4 V3	#4 V4	#4 V5	#4 V6	#4 V7	#4 V8
Number	11	7	2	7	8	1	7	26	11	11	2	3	4	5	9*	9	1	4	5	9*	9*	18	3	3	2	2	18	7	1	11*	7	1	53*	2*
Length	*	*	*	*	*	23'-6½"	*	10'-11"	5'-9"	8'-0"	12'-3¾"	27'-8¾"	17'-1"	*	5'-0"	8'-4½"	19'-11¼"	10'-2¾"	*	5'-0"	8'-4½"	3'-0"	17'-8"	11'-11"	21'-5"	12'-8"	*	9'-2"	9'-8"	*	9'-2"	9'-2"	9'-2"	*

Drawing File: F:\eng\Meridian Drainage\Detail\Wingwall

Design:	TPV
Drawn:	TPV
Approved:	TPV
Scale:	1"=30'

Project No. 08-02-E038 CAPITAL IMPROVEMENT PROJECT

FLARED WINGWALLS Sta. 75+21.80
3 ft. Rise (0° Skew)(1-10 ' X 8')
MERIDIAN AVENUE DRAINAGE OUTFALL PROJECT

Baughman Company , P.A.
315 Ellis St. Wichita, KS 67211 P 316.262.7271 F 316.262.0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

January 2013

SHEET 84 OF 119

GENERAL NOTES

LOADING: HS20-44 AASHTO Specifications, 1983 Edition.

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. Where Grade 4.0 Concrete (AE) is specified, it shall be placed in the top slab above the Construction Joint.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded wire fabric shall conform to ASTM A185. Wire fabric shall be electrically welded and shall be composed of 6x6-W1.4xW1.4 welded wire fabric and shall be classified as pounds of reinforcing. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.

SEAL COURSE: A Seal Course may be required. The Seal Course shall be unreinforced Concrete (Commercial Grade) to a minimum depth of 3 inches or as determined by the Engineer.

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. See "RCB Auxiliary Details" sheet for additional details.

QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when their construction is required by the plans.

GRANULAR BACKFILL (WINGWALLS): Special backfill procedures may be required at the direction of the Engineer. See Auxiliary Details Sheet.

STRIKE LINE: Wingwalls and that portion of the RCB outside the Strike Line shall be constructed level. See wingwall detail sheet.