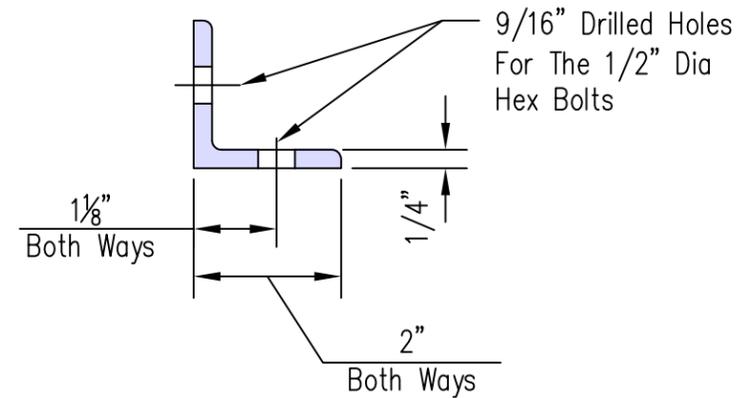
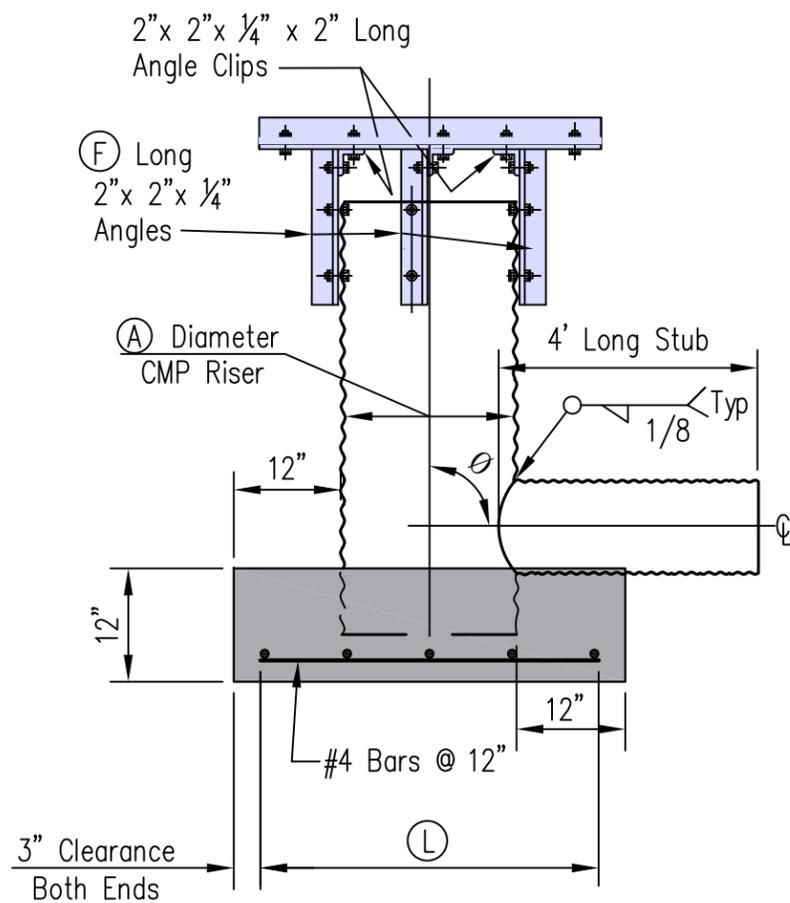


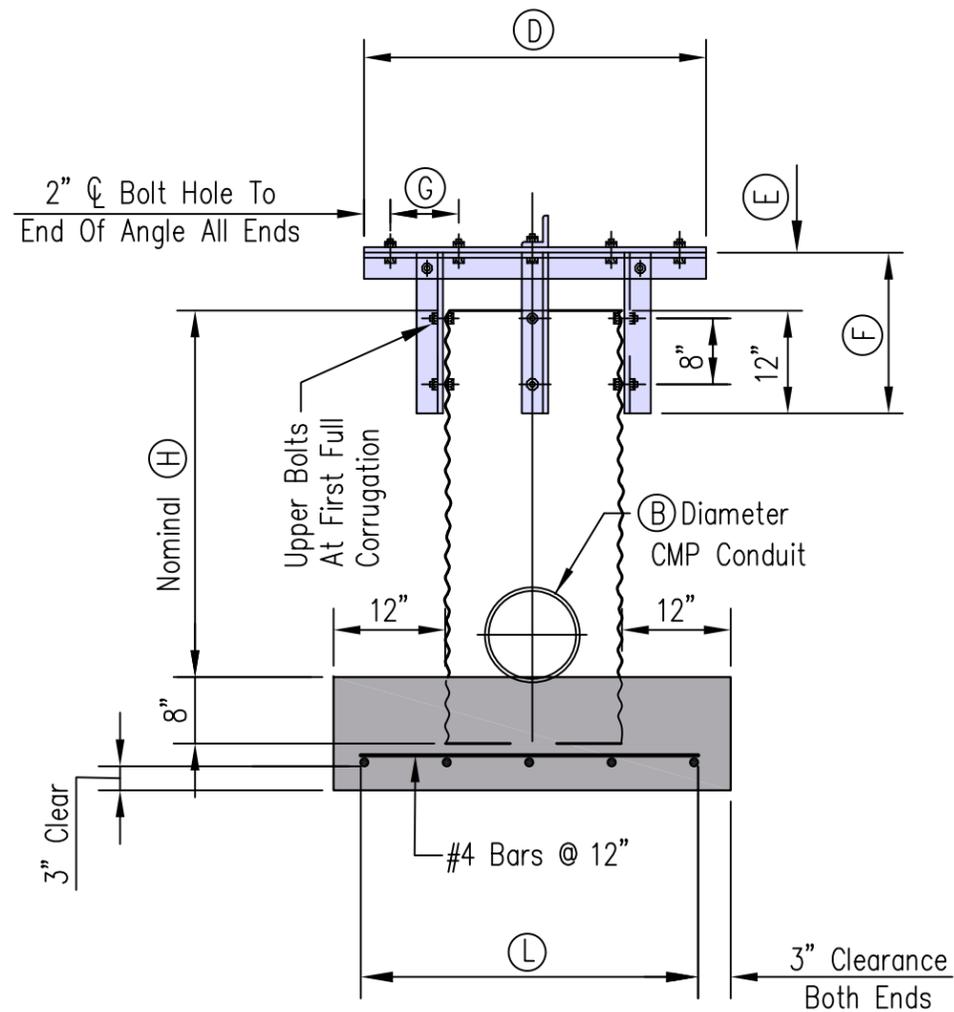
PLAN



ANGLE DETAIL



SIDE ELEVATION



DOWNSTREAM ELEVATION

Designed	M. QUINONES	Date	4/1/16
Drawn		Checked	
Approved			

DETAILS OF CMP VERTICAL DROP INLET WITH HORIZONTAL ANTI-VORTEX BAFFLE

United States Department of Agriculture
Natural Resources Conservation Service

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Landowner		Location	
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TABLE SHOWING DIMENSIONS AND MATERIAL	
DIMENSIONS	
Nominal Length (H) In Feet	
Gage Of (A) Riser In Inches	
Corrugations For (A) Riser	
Gage Of (B) Conduit In Inches	
Corrugations For (B) Conduit	
Ø Angle In Degrees	
MATERIAL	QUANTITY REQUIRED
(D) Long 2"x 2"x 1/4" Angles	2
(F) Long 2"x 2"x 1/4" Angles	4
2" Long 2"x 2"x 1/4" Angle Clips	2
(D) Dia 1/4" Thick Metal Plate	1
1/2"x 1 1/2" Hex Bolts	20
1/2" Split Lock Washers	20
1/2" Hex Nuts	20
Number Of (L) Long #4 Reinforcing Bars	
Weight Of #4 Reinforcing Bars In Pounds	
Volume Of Concrete In Cubic Yards	

NOTES:

1. Locate the riser in compacted earth fill.
2. Fabricate the corrugated metal riser from galvanized steel or aluminum. If fabricated from steel, repair any zinc coating damaged by welding as follows:
 A) Remove all loose and cracked coating by wire brushing and all dirt and greasy material by a suitable solvent.
 B) Paint the damaged area with two coats of Zinc Dust-Zinc Oxide primer, followed by a heavy coat of Fibrated Asphalt Mastic.
3. Fabricate the angles and anti-vortex baffle plate from the same material as the riser to which they will be attached. If fabricated from steel, galvanize the angles and anti-vortex baffle plate after cutting and drilling or repair as outlined in Note 2.
4. The anti-vortex baffle plate can be left square, if all corners are rounded with 6 inch minimum radius.
5. All bolts, nuts and washers must be galvanized steel.
6. Separate aluminum riser and conduit from the reinforced concrete base by at least 2 layers of plastic tape with a total thickness of at least 24 mils or by a heavy coat of Alkali- Resistant Bituminous paint.

QUANTITIES FOR SELECTED SIZES – VERTICAL INLET AND BAFFLE									
Riser Dia (In) (A)	Conduit Dia (In) (B)	ANTI-VORTEX BAFFLE DIMENSIONS				REINFORCING BAR			VOLUME OF CONCRETE
		(D)(In)	(E)(In)	(F)(In)	(G)(In)	No.	(L)	Total Weight	
12	6 or 8	22	3	15	4 1/2	6	2'-6"	10.0 Lb.	0.3 Cu.Yd
15	8 or 10	27	4	16	5 3/4	8	2'-9"	14.7 Lb.	0.4 Cu.Yd
18	10 or 12	34	5	17	7 1/2	8	3'-0"	16.0 Lb.	0.5 Cu.Yd
24	15 or 18	44	6	18	10	10	3'-6"	23.4 Lb.	0.6 Cu.Yd
30	21 or 24	56	8	20	13	10	4'-0"	26.7 Lb.	0.8 Cu.Yd
36	24 or	66	9	21	15 1/2	12	4'-6"	36.1 Lb.	0.9 Cu.Yd

Landowner		Location	
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DETAILS OF CMP VERTICAL DROP INLET WITH HORIZONTAL ANTI-VORTEX BAFFLE



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