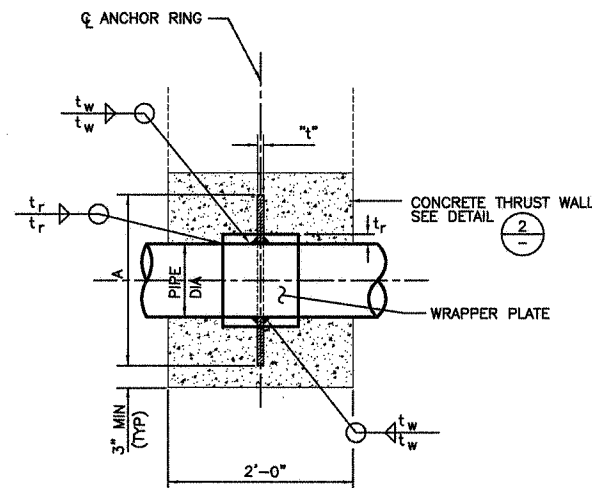


NOM PIPE DIA D	RING FLG DIA A	t	t _w	t _r
36"	44"	0.875	0.313	0.216"



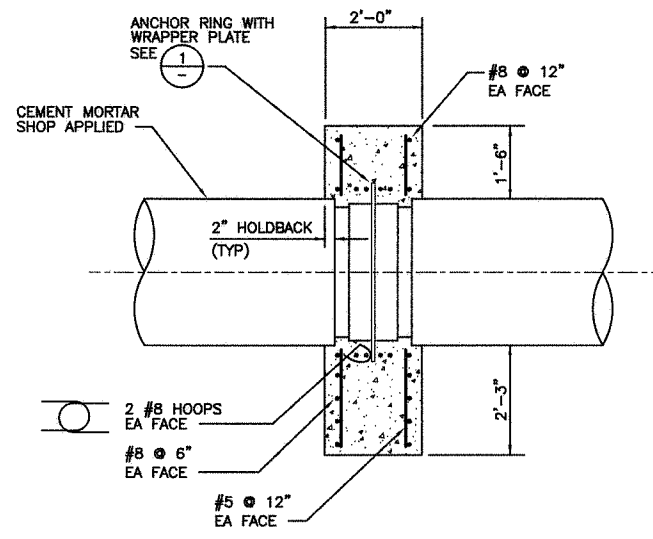
NOTES:

1. ANCHOR RING TO BE CENTERED WITHIN CONCRETE ENCASEMENT UNLESS NOTED ON PLANS.
2. MINIMUM PIPE THICKNESS BASED ON LISTED MINIMUM THICKNESS PER PLAN.
3. ANCHOR RING SHALL BE DESIGNED IN CONFORMANCE WITH AWWA M11.
4. ANCHOR RING SHALL BE AROUND DIAMETER OF PIPE.

ANCHOR RING

SCALE: N.T.S.

1
C5.16



SECTION A

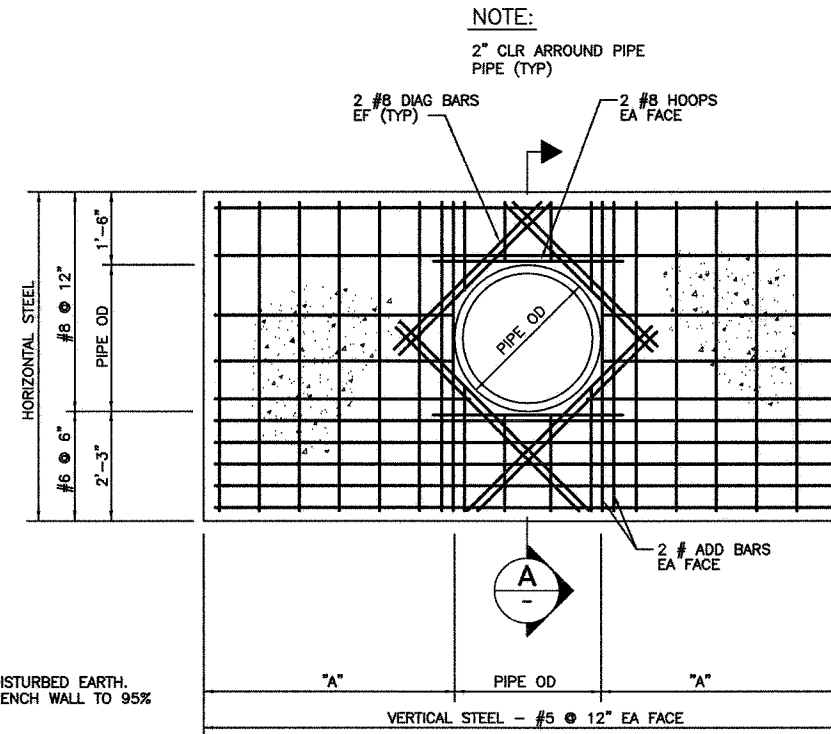
NOTES:

1. PLACE CONCRETE AGAINST UNDISTURBED EARTH. COMPACT BACKFILL AGAINST TRENCH WALL TO 95% RELATIVE COMPACTION.
2. WRAPPER PLATE SHALL ME MINIMUM 12" WIDE.

CONCRETE THRUST WALL

SCALE: N.T.S.

2
C5.16



NOTE:

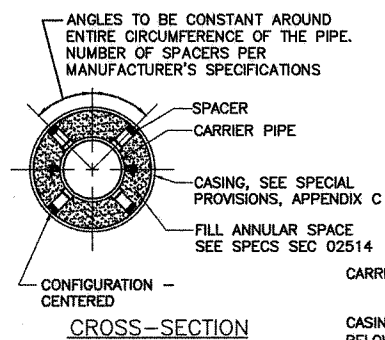
2" CLR AROUND PIPE
PIPE (TYP)

2 #8 DIAG BARS
EF (TYP)

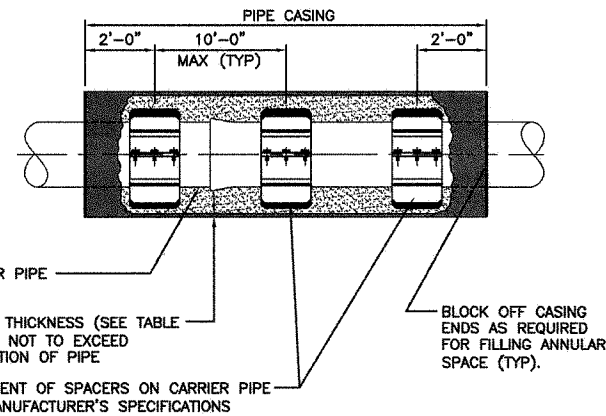
2 #8 HOOPS
EA FACE

2 # ADD BARS
EA FACE

WATERLINE	"A" (FT)
WATERLINE 1	3.0
WATERLINE 2	6.75
MOUNTAIN VIEW & HINSON	4.75



CROSS-SECTION



CARRIER PIPE		
PIPE SIZE	8" SPACER WIDTH	STEEL THICKNESS
6"	16"	1/4"
8"	18"	1/4"
10"	20"	5/16"
12"	24"	5/16"
16"	30"	3/8"
24"	42"	7/16"
36"	54"	1/2"

* NOTE THIS PROJECT 36" CARRIER PIPE SHALL HAVE 54" CLASS IV RCP CASING.

MLC CARRIER PIPE			
8" SPACER WIDTH		12" SPACER WIDTH	
PIPE SIZE	CASING ID	PIPE SIZE	CASING ID
24"	42"	42"	60"
30"	48"	48"	66"
36"	54"	54"	72"
		60"	78"
		66"	84"
		72"	90"

NOTES:

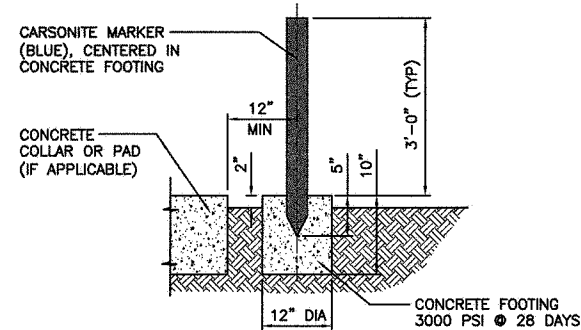
1. DIP JOINTS INSIDE PIPE CASING TO BE RESTRAINED (TYP). MLC JOINTS INSIDE CASING TO BE WELDED.
2. INTERIOR OF CASING TO BE GROUND SMOOTH AND LUBRICATED FOR SPACER INSTALLATION.
3. ALL CONDUITS AND FITTINGS INSTALLED WITHIN CASING IN ACCORDANCE WITH SPECIFICATIONS
4. ENTIRE PIPE CASING TO BE INSTALLED LEVEL (6"±) UNLESS OTHERWISE SHOWN ON DRAWINGS. SEE SPECIAL PROVISIONS, APPENDIX C SPECS SEC 02514 FOR FURTHER REQUIREMENTS.

WATER CASING ASSEMBLY DETAIL

SCALE: N.T.S.

PL09-3 030506

3
C5.09



NOTE:

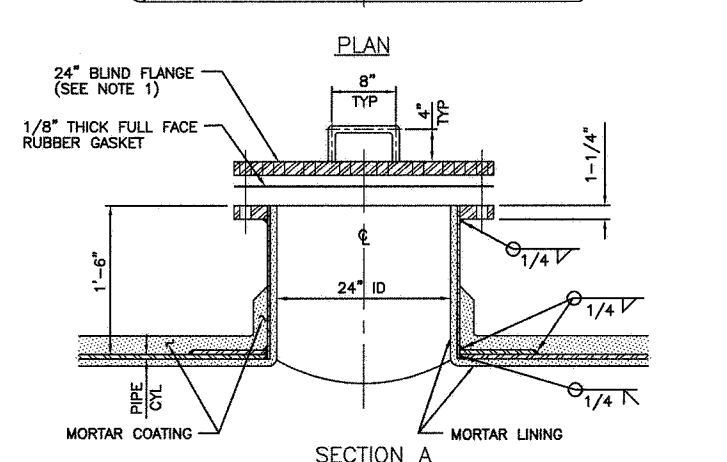
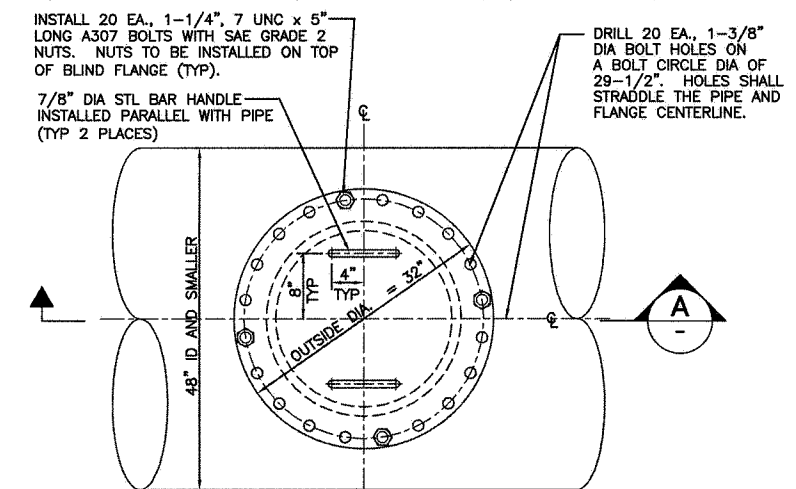
SEE SPECIFICATIONS FOR ALL APPROVED PRODUCTS.

CARSONITE MARKER INSTALLATION

SCALE: N.T.S.

PL10-13 091406

4
C5.16



NOTES:

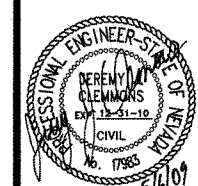
1. STANDARD BLIND FLANGE CLASS "D" (1.657" THICK) PER AWWA C207-94.
2. SEE SPECIAL PROVISIONS, APPENDIX C SPECS SEC 02511 FOR MORTAR LINED AND COATED STEEL PIPE

24-INCH PIPE ACCESS MANWAY

SCALE: N.T.S.

PL08-2 012704

5
C5.16



SHEET:
C5.16
121 of 139
DRAWING#
327V284

TITLE: **OAKEY/MEADOWS STORM DRAIN PHASE 1**
CHARLESTON BOULEVARD TO ALTA DRIVE
SHEET:
THRUST WALL & ANCHOR RING DETAILS

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION
CITY ENGINEER: **CHERI EDELMAN, P.E.**
CITY PROJECT ENGINEER: **MICHAEL STURDIVANT, P.E.**
PROJECT MANAGER: **ANGELO SPATA, P.E.**
DESIGN BY: **SMB**
CHECK BY: **AAS**
DATE: **MAY 2009**
DRAWN BY: **RPW**