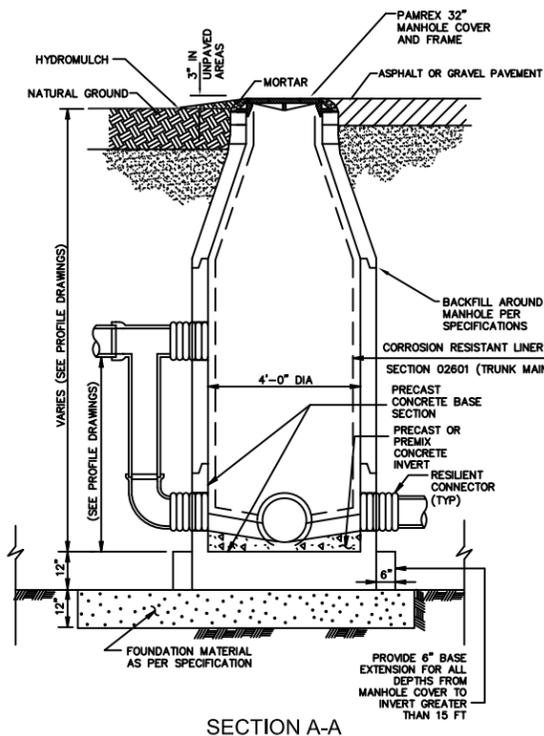
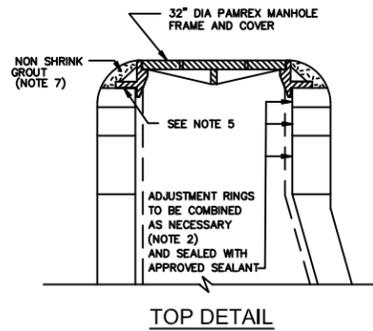
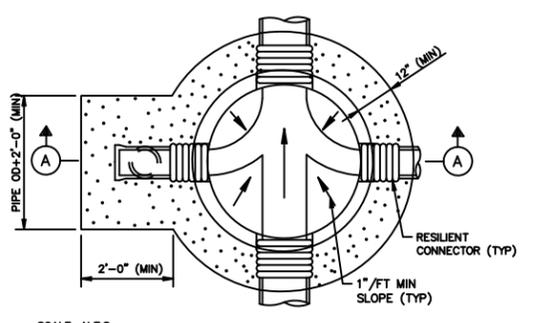


NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 12". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 1'-6".
3. MANHOLE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MIN THICKNESS 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME PER MANUFACTURER.
6. ECCENTRIC PRECAST CONCRETE MANHOLE MAY BE USED.
7. OMIT NON SHRINK GROUT WHEN MANHOLE IS LOCATED IN PAVED AREAS.
8. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 EW.
9. PROVIDE BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER SPECIFICATION.
10. CENTRIFUGALLY CAST FIBERGLASS PIPE CONNECTIONS TO MANHOLE SHALL BE PER MANUFACTURERS RECOMMENDATION AND SHALL CONFORM TO ASTM C-923.



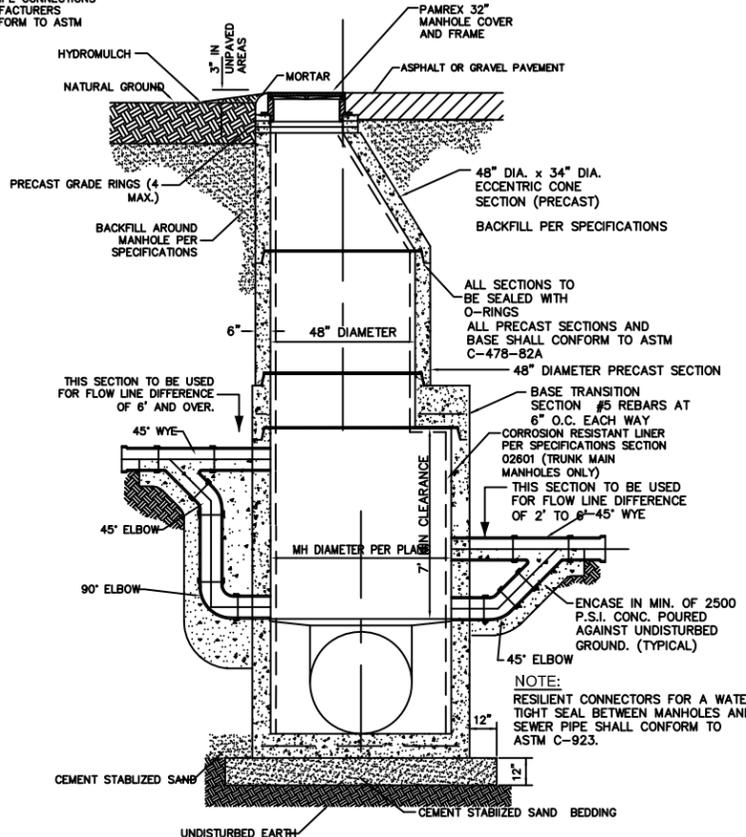
SECTION A-A



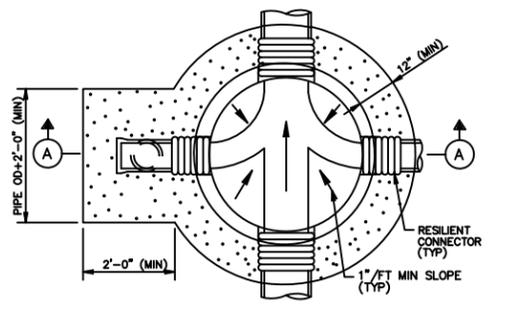
FOUNDATION PLAN

SANITARY SEWER 4'-0" DIAMETER PRECAST CONCRETE CORROSION RESISTANT MANHOLE

- GENERAL NOTES:**
1. STANDARD PAY DEPTH FOR ALL MANHOLES IS 8'-0". MANHOLE DEPTH BEYOND 8' IS TO BE PAID PER THE UNIT PRICE BID FOR EXTRA DEPTH FOR THE SIZE MANHOLE STATED.
 2. ALL MANHOLES SHALL BE INSTALLED WITH EXTERNAL JOINT WRAPS (PER MANUFACTURERS RECOMMENDATIONS) TO SEAL AGAINST GROUND WATER INFILTRATION ("RISER WRAP" PER PIPELINE SEAL AND INSULATOR, INC. OR APPROVED EQUAL). NO SEPARATE PAY

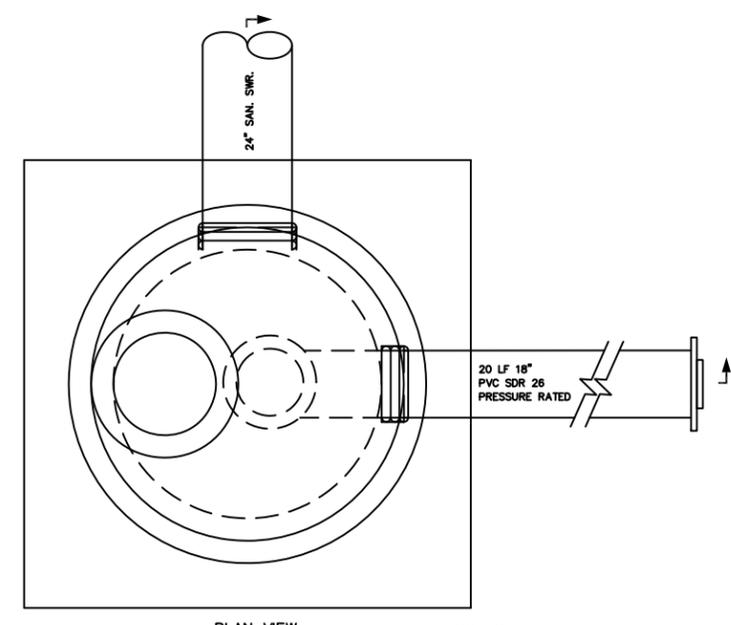


SECTION A-A

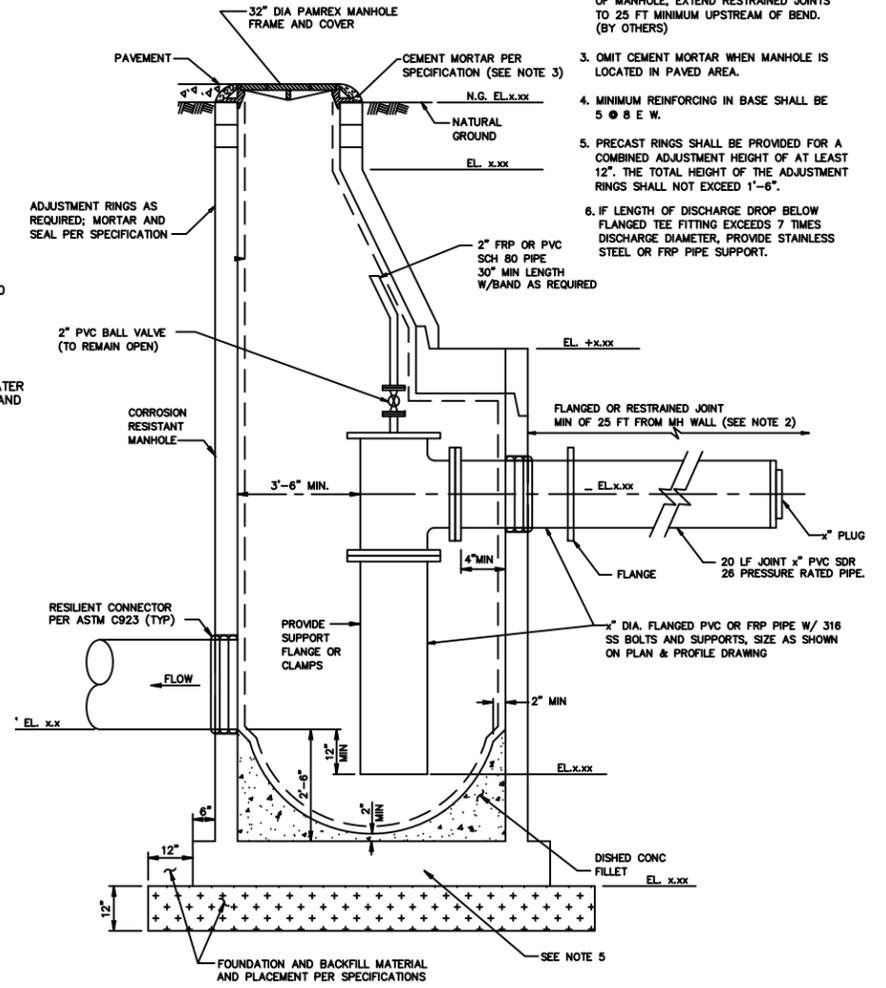


FOUNDATION PLAN

5' DIAMETER & GREATER PRECAST SANITARY SEWER MANHOLE DETAIL

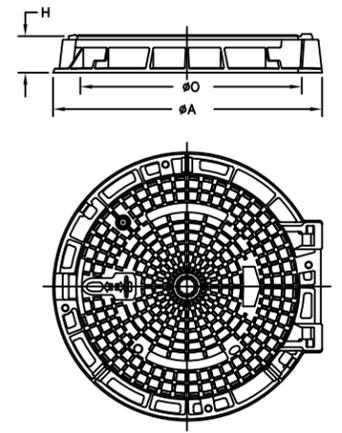


PLAN VIEW



SECTION

6' DIAMETER SANITARY SEWER CORROSION RESISTANT MANHOLE FOR FORCE MAIN DISCHARGE



MANHOLE COVER AND FRAME SHALL BE CALLED PAMREX OR APPROVED EQUAL. COVER AND FRAME SHALL BE MANUFACTURED FROM DUCTILE IRON. COVERS SHALL BE DUALY HINGED AND INCORPORATE A 90 DEGREE BLOCKING SYSTEM TO PREVENT ACCIDENTAL CLOSURE. COVERS SHALL BE ONE MAN OPERABLE USING STANDARD TOOLS AND SHALL BE CAPABLE OF WITHSTANDING A TEST LOAD OF 80,000 LBS. FRAMES SHALL BE CIRCULAR, INCORPORATE A SEATING RING AND A FITTED PLUG IN EACH HINGE HOUSING, AND BE AVAILABLE IN A 32 INCH CLEAR OPENING. THE FRAME DEPTH SHALL NOT EXCEED 5 INCHES, AND THE FLANGE SHALL INCORPORATE BEDDING SLOTS, BOLT HOLES, AND LIFTING EYES. ALL COMPONENTS SHALL BE BLACK COATED.
 FRAME WEIGHT: 107 LBS.
 COVER WEIGHT: 162 LBS.
 TOTAL WEIGHT: 269 LBS.
 PAMREX IS AVAILABLE FROM JIM COX SALES, INC. (800) 838-7377.

DIMENSIONS (INCHES)		WEIGHT (lbs)		REFERENCE	
A	O	H	COVER AND FRAME	COVER ONLY	
39 1/10	32	5	269	162	RE 32 RB FD

NOTE:
 PAMREX MANHOLE COVERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL ENSURE THAT BEDDING MORTAR IS NOT IN CONTACT WITH EITHER HINGE HOUSING OR CUSHIONING INSERT. CONTRACTOR SHALL ENSURE THAT ELASTOMER PLUGS, HINGE, LOCKING DEVICES, GASKETS AND ANTI-THEFT DEVICES ARE ALL CLEAN AND FULLY OPERATIONAL.

PAMREX 32 INCH MANHOLE COVER AND FRAME (SEE SPECIFICATION SECTION FOR INSTALLATION INSTRUCTIONS)

MK.	DESCRIPTION	DATE	DWN.	CHK.



City of Galveston, Texas
 Department of Public Works
 Sanitary Sewer Manhole Construction Details

SHEET NO.:	DATE: JULY, 2011	SCALE: HORIZ : N.T.S. VERT : N.T.S.	SHEET X OF XX
DWN BY:			
CHKD BY:			