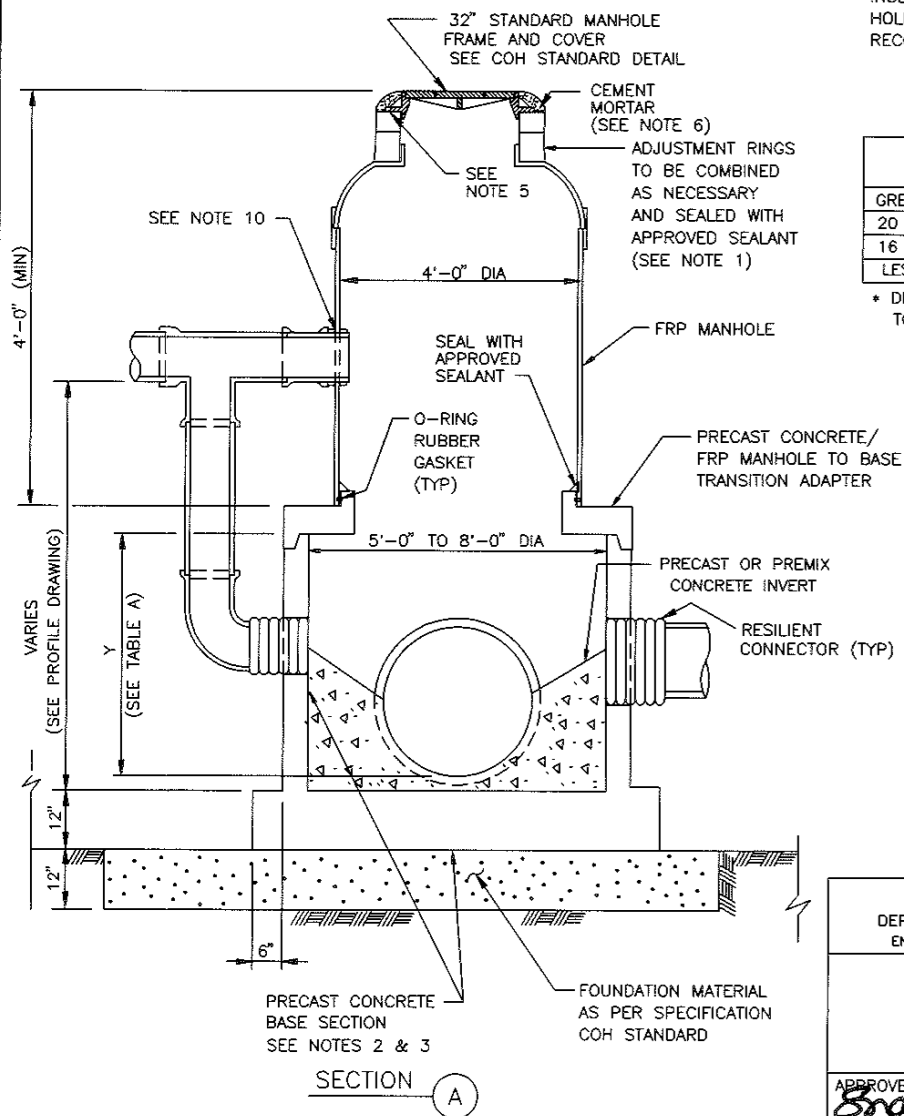


**NOTES:**

1. 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".
2. PROVIDE CORROSION RESISTANT MATERIAL ON ALL CONCRETE SURFACES ABOVE THE INVERT PER SPECIFICATIONS.
3. MANHOLE BASE WALL THICKNESS FOR DEPTH EXCEEDING 12'-0" SHALL BE DESIGNED FOR ACTUAL LOADING CONDITIONS. MIN THICKNESS SHALL BE 5".
4. MANHOLE DROP AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWING.
5. SEAT MANHOLE FRAME IN SEALANT PER COH STANDARD SPECIFICATION.
6. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS.
7. MIN REINFORCING IN THE PRECAST CONCRETE BASE SHALL BE # 5 @ 8 EW.
8. ECCENTRIC FIBERGLASS REINFORCED PLASTIC (FRP) MANHOLE MAY BE USED.
9. PROVIDE BACKFILL TO MATCH ADJACENT PIPE TRENCH BACKFILL PER COH STANDARD SPECIFICATION
10. MANUFACTURED WATERTIGHT CONNECTOR, INSERT-A-TEE, OR EQUAL, CORE DRILL HOLE AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.



**TABLE A**

Y (MAXIMUM) (FT)

DEPTH *	MANHOLE DIAMETER (FT)		
	5	6	8
GREATER THAN 24 FT	21	19	17
20 FT TO 24 FT	19	16	14
16 FT TO 20 FT	15	14	13
LESS THAN 16 FT	11	11	11

\* DEPTH FROM MANHOLE COVER TO MAIN PIPE INVERT

**CITY OF HOUSTON**  
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**SANITARY SEWER**  
 5'-0" TO 8'-0" DIAMETER  
 FIBERGLASS MANHOLE  
 (NOT TO SCALE)

APPROVED BY: <i>Braudagis</i> CITY ENGINEER	APPROVED BY: <i>[Signature]</i> DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02083-02