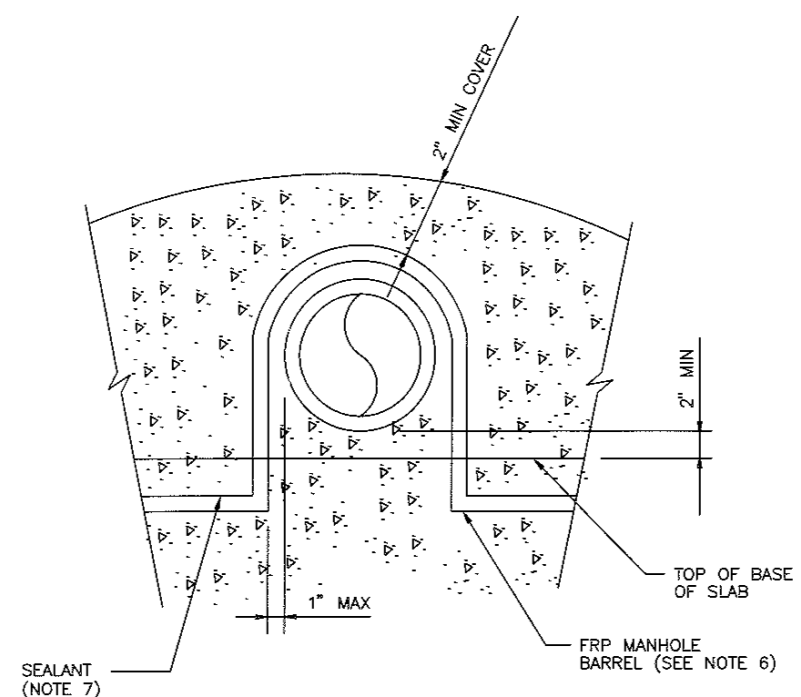
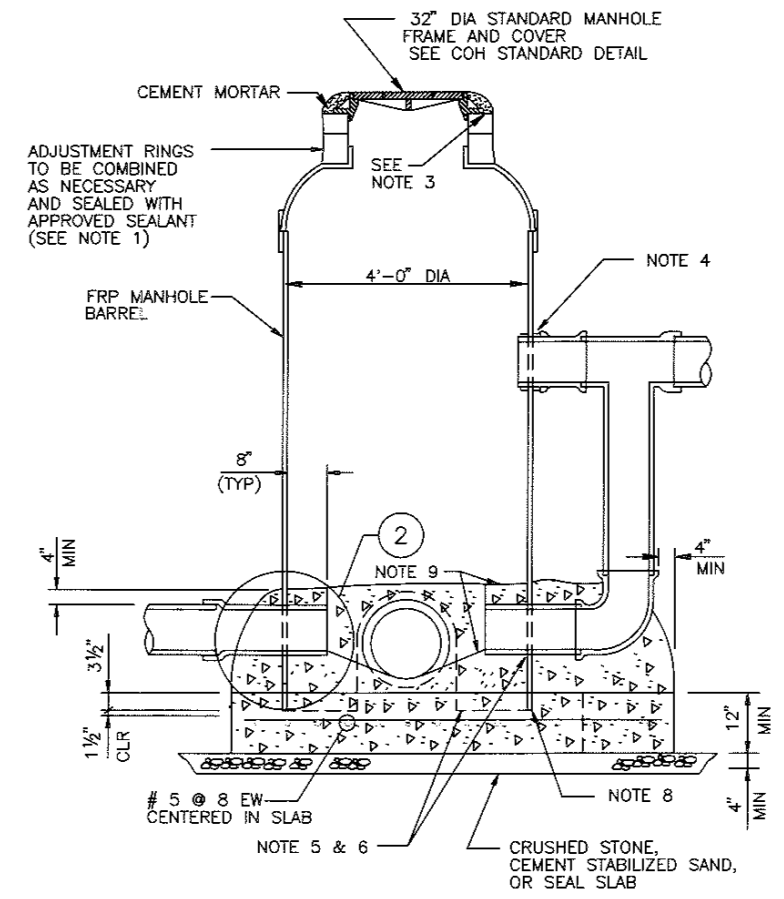


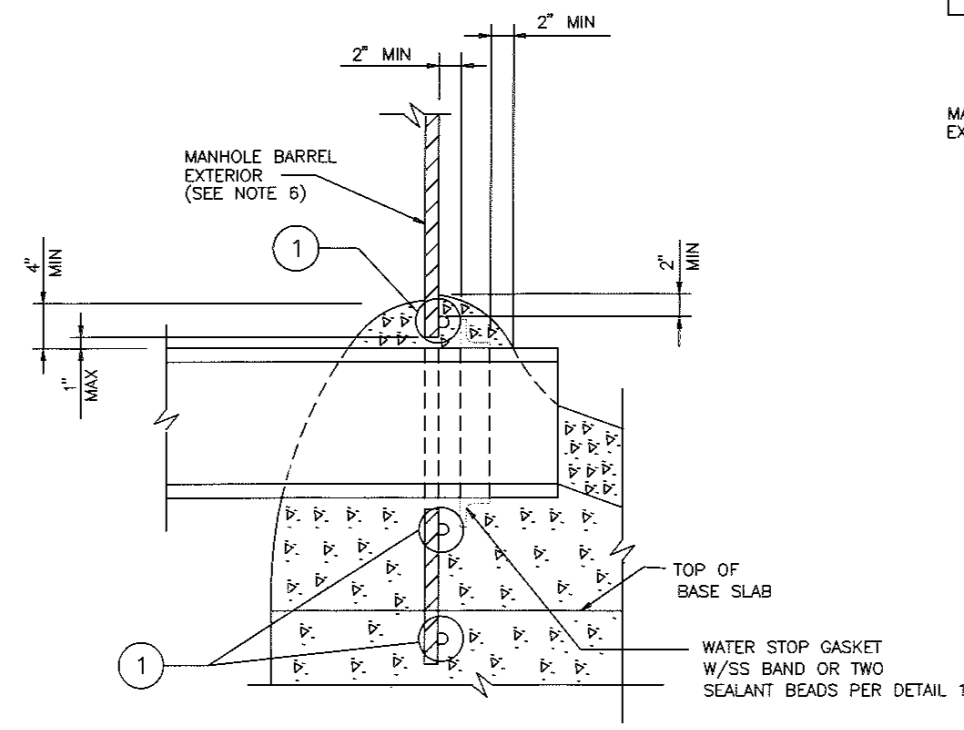
FOUNDATION PLAN



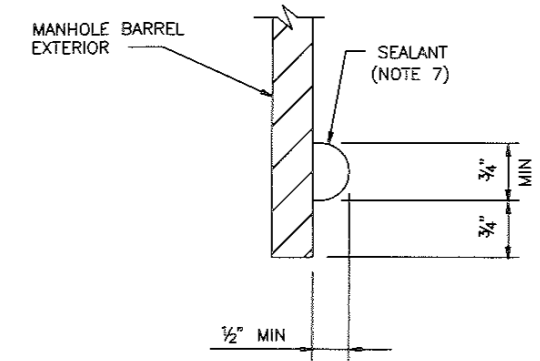
SECTION B



SECTION A



DETAIL 2



DETAIL 1

NOTES:

1. PRECAST CONCRETE RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST 4". THE TOTAL HEIGHT OF THE ADJUSTMENT RINGS SHALL NOT EXCEED 12".
2. DROPS AND INTERSECTING PIPES SHALL BE INSTALLED ONLY WHEN CALLED FOR IN PLAN AND PROFILE DRAWINGS.
3. SEAT MANHOLE FRAME IN SEALANT PER COH STANDARD SPECIFICATION.
4. MANUFACTURED WATERTIGHT CONNECTOR, CORE DRILL AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. MAKE CUTOUT FOR PIPE PENETRATION TO FOLLOW CURVATURE OF THE PIPE AND WITH A MAXIMUM OF 1" CLEARANCE. SEAL CUT EDGES WITH RESIN.
6. PIPE PENETRATION CUTOUT MAY EXTEND TO THE BARREL BOTTOM (AS SHOWN IN SECTION B) OR BE A CONCENTRIC HOLE, AS SHOWN IN DETAIL 2.
7. PLACE A CONTINUOUS BEAD OF WATER SWELLING SEALANT ALONG THE BOTTOM OF THE MANHOLE BARREL AND AROUND PIPE PENETRATIONS PER DETAIL 1.
8. THE FRP MANHOLE BARREL SHALL BE SUPPORTED IN PLACE AND BRACED FROM THE SIDES OF THE EXCAVATION TO PREVENT ANY MOVEMENT OF THE BARREL DURING CONCRETE PLACEMENT AND WHILE CONCRETE IS SETTING. THE BARREL SHALL NOT BE SUPPORTED BY THE REINFORCING STEEL.
9. FORM FLOW SURFACE AND MOUND CONCRETE AROUND PIPE PENETRATIONS, TO FORM A SEAL, IN ONE CONTINUOUS PLACEMENT OPERATION.

NOTES TO SPECIFIER:

1. THIS DETAIL IS TO BE USED IN AREAS WHERE ACCESS IS NOT AVAILABLE FOR EQUIPMENT NEEDED TO PLACE A PRECAST CONCRETE MANHOLE BASE, EG: BACKLOT EASEMENTS.
2. FOR MANHOLES IN EXCESS OF 12' DEPTH, USE A PRECAST CONCRETE BASE, SLAB REINFORCING IS ADEQUATE FOR 12' DEPTH.
3. THE MANHOLE BASE IS SIZED TO PROVIDE ADEQUATE RESISTANCE TO HYDROSTATIC UPLIFT. IF THE BASE SIZE IS REDUCED, BUOYANCY MUST BE CHECKED.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER FIBERGLASS MANHOLE WITH CAST-IN-PLACE BASE (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02083-03