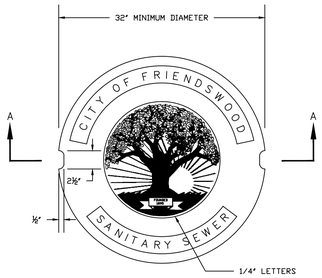
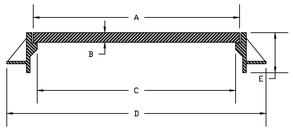


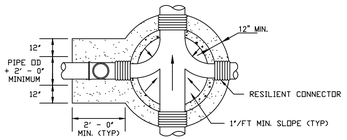
PLAN



SECTION A–A

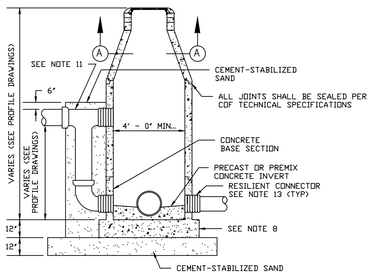
DIMENSIONS					
TYPE	A	B	C	D	E
H-2 INLET	23½"	1½"	22"	32¾"	6"
ALL OTHERS	32"	1½"	30⅞"	40"	6½"

MANHOLE FRAME AND COVER



FOUNDATION PLAN

SECTION A



PROFILE VIEW

SANITARY SEWER MANHOLES

NOTES:

1. DEPTH OF MANHOLE DETERMINES SECTIONS REQUIRED.
2. PRECAST ADJUSTMENT RINGS SHALL BE PROVIDED FOR A COMBINED ADJUSTMENT HEIGHT OF AT LEAST TWELVE (12) INCHES. THE TOTAL HEIGHT OF ADJUSTMENT RINGS SHALL NOT EXCEED EIGHTEEN (18) INCHES.
3. MANHOLE WALL THICKNESS FOR DEPTHS EXCEEDING 12' - 0" SHALL BE DETERMINED TO MEET LOADING CONDITIONS. MINIMUM WALL THICKNESS SHALL BE FIVE (5) INCHES.
4. MANHOLE DROP AND INTERSECTING PIPES SHALL ONLY BE INSTALLED WHEN CALLED FOR IN THE PLAN AND PROFILE DRAWINGS.
5. SEAT MANHOLE FRAME IN SEALANT PER CITY OF FRIENDSWOOD TECHNICAL SPECIFICATIONS.
6. ECCENTRIC PRECAST MANHOLE CONE MAY BE USED.
7. OMIT CEMENT MORTAR WHEN MANHOLE IS LOCATED IN PAVED AREAS. IN PAVED AREAS A BLOCKOUT SHALL BE SUPPLIED THAT IS TWO (2) FEET PAST THE OUTSIDE EDGE OF THE MANHOLE.
8. MINIMUM REINFORCING BARS IN THE BASE SHALL BE #5 @ 8" O.C.E.W. MINIMUM REINFORCING BARS IN MANHOLE, INCLUDING CONE, SHALL BE #4 @ 12" O.C.E.W.
9. PROVIDE BACKFILL TO MATCH ADJACENT PIPE TRENCH. BACKFILL PER CITY OF FRIENDSWOOD TECHNICAL SPECIFICATIONS.
10. BRICK CONSTRUCTION SHALL NOT BE PERMITTED.
11. SANITARY SEWER DROP CONNECTION SHALL BE REQUIRED WHEN THE DIFFERENCE BETWEEN THE SANITARY SEWER FLOWLINE AND BOTTOM OF MANHOLE IS THIRTY (30) INCHES OR GREATER.
12. CONCRETE SHALL BE CLASS "A" CONCRETE WITH A DESIGN STRENGTH OF 4,000 PSI AT TWENTY-EIGHT (28) DAYS AND RATED FOR H-20 LOADING.
13. RESILIENT CONNECTOR SHALL BE RUBBER GASKETED SLEEVE AND STAINLESS STEEL CLAMP. RESILIENT CONNECTOR SHALL BE PER CITY OF FRIENDSWOOD TECHNICAL SPECIFICATIONS AND SHALL BE WATERTIGHT.
14. PROVIDE SIX (6) INCH BASE EXTENSION FOR ALL MANHOLE DEPTHS GREATER THAN FIFTEEN (15) FEET AS MEASURED FROM INVERT FLOWLINE TO MANHOLE COVER.

SANITARY SEWER STANDARD DETAILS (MANHOLES)			DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION
FILE NAME: SSSD2 – 2017.DWG	DATE APPROVED: JULY 1, 2017		PROJECT NUMBER: / DATE SUBMITTED: / SHEET: XX OF XX
	SCALE: NTS	REVISED DATE: JUNE 2017	