SANITARY SEWER MANHOLE DETAIL

NOTES FOR DESIGNER:

1. **DO NOT INCLUDE ON CONSTRUCTION DRAWINGS**

2. WHEN EDITING DETAIL TO SUIT PROJECT, ADD JOB SPECIFIC REQUIREMENTS AND DELETE ONLY THOSE PORTIONS THAT DO NOT APPLY. TO SEEK A VARIANCE FROM APPLICABLE REQUIREMENTS, CONTACT THE ESM CIVIL POC.

3. **ENGINEERING STANDARDS MANUAL CIVIL CHAPTER.**

4. **MASTER SPECIFICATION 31 2000, EARTH MOVING, (INCLUDES TRACER WIRE AND TEST STATION SPECIFICATIONS).**

5. **MASTER SPECIFICATION 31 6000, MANHOLES AND STRUCTURES.**

6. **MASTER SPECIFICATION 33 0513, MANHOLES AND STRUCTURES.**

7. **MASTER SPECIFICATION 33 3000, SANITARY SEWERAGE UTILITIES.**

8. **SIX FEET DIAMETER MANHOLE SHALL BE USED UNLESS ALL OF THE FOLLOWING CONDITIONS ARE MET.**

   3.1. DEPTH OF MANHOLE IS 8'-0" OR LESS

   3.2. INLET PIPE(S) IS ONE 6" DIAMETER PIPE OR LESS, OR IS TWO 4" DIAMETER PIPES.

   3.3. NOT A DROP MANHOLE.

GENERAL NOTES:

1. **IF THIS SHEET IS NOT 24" X 36" USE GRAPHIC SCALE ACCORDINGLY**

KEYED NOTES:

1. **FORM FLOW CHANNELS THRU MANHOLE THE FULL SIZE OF SEWER MAINS CONFORMING TO THE GROSS SECTION OF PIPT; SHAPE AND TRUEWELL SMOOTH**

2. **TERMINATE ALL PIPE APPROXIMATELY 1" INTO MANHOLE**

3. **CLEAN ALL JOINTS AND INSTALL SEALING GASKETS**

4. **NON-SHRINK GROUT WITH WATER STOP GROUTING RING FOR PIPE (TYPICAL).**

5. **USE DROP WHERE INVERT CAN NOT BE SET AT MANHOLE FLOOR LINE.**

6. **TEST STATION WITH 6" THICK CONCRETE COLLAR.**

7. **DO NOT USE FLAT TOPS IN PARKING LOTS OR ROADWAYS WITHOUT APPROVAL OF LANL WASTE WATER SYSTEM ENGINEER.**

8. **MASTIC AND/OR GROUT FOR WATER TIGHT SEAL AND PREVENTION OF DISPLACEMENT OF RINGS AND COVER.**

9. **INSTALL TWO BOTTOM STEPS ABOVE OUTLET IN MANHOLE.**

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