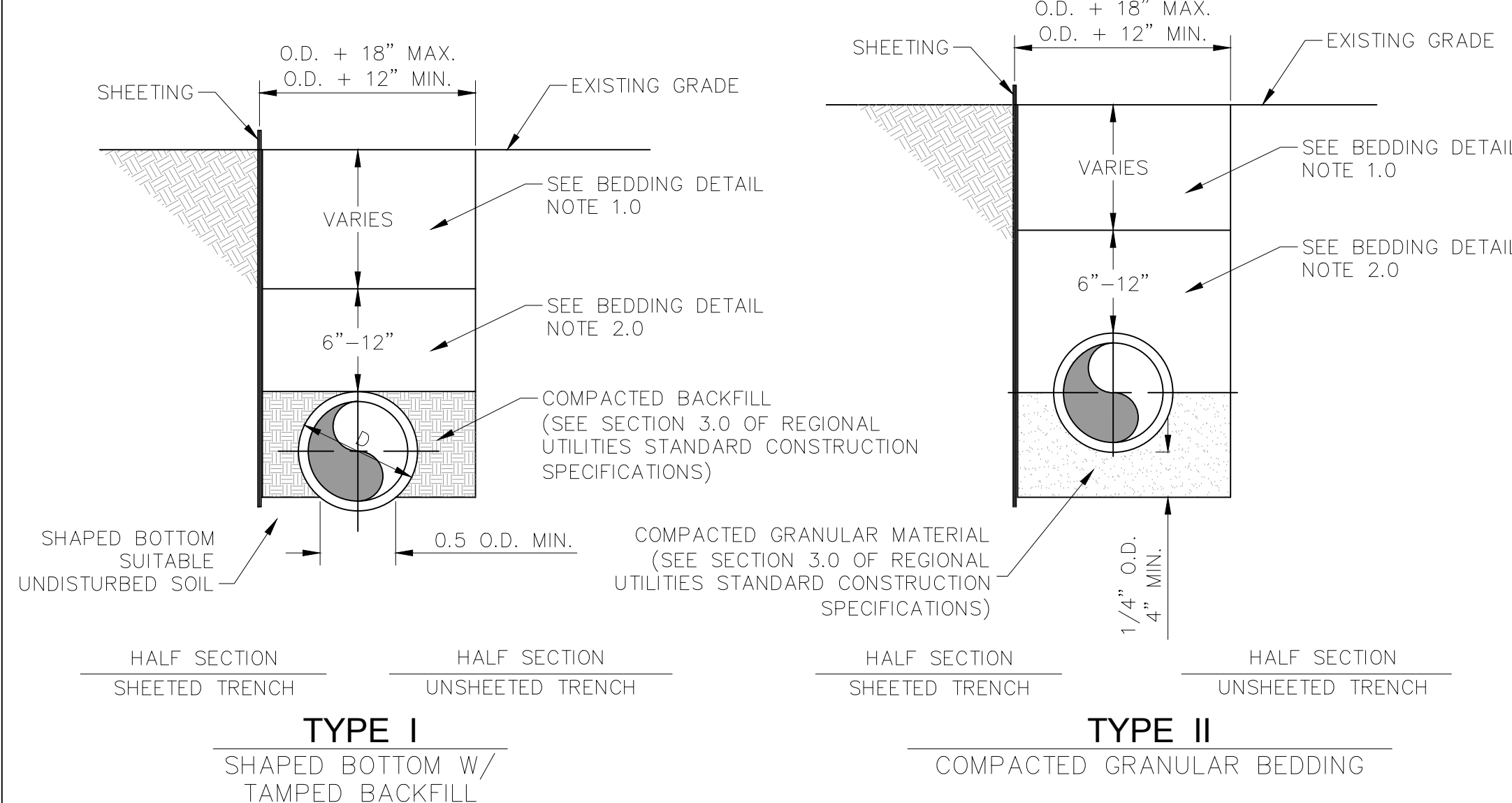


- NOTES
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH LATEST EDITION OF ASTM C 478 WITH 4,000 LB. CONCRETE, TYPE II CEMENT.
 2. THE INTERIOR AND EXTERIOR OF MANHOLE SHALL BE GIVEN TWO COATS OF FABERTITE BITUMINOUS WATERPROOFING MATERIAL, DO NOT COAT JOINT OF PIPE OPENING SURFACES.
- NOTE: MANHOLE FRAME AND COVER SHALL BE U.S. FOUNDRY E-170 OR EQUIVALENT.

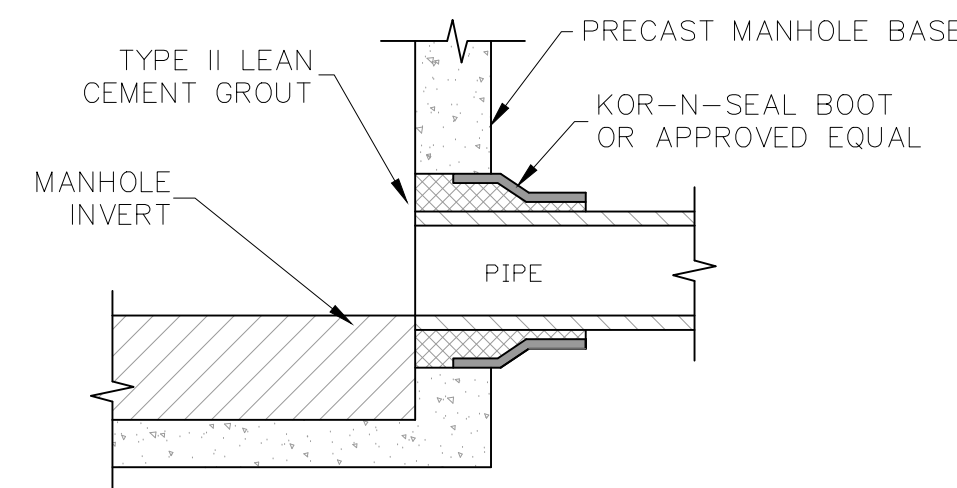
1 SANITARY SEWER STANDARD MANHOLE

N.T.S. (8"-21" SEWERS)



2 TYPICAL BEDDING DETAIL

N.T.S.

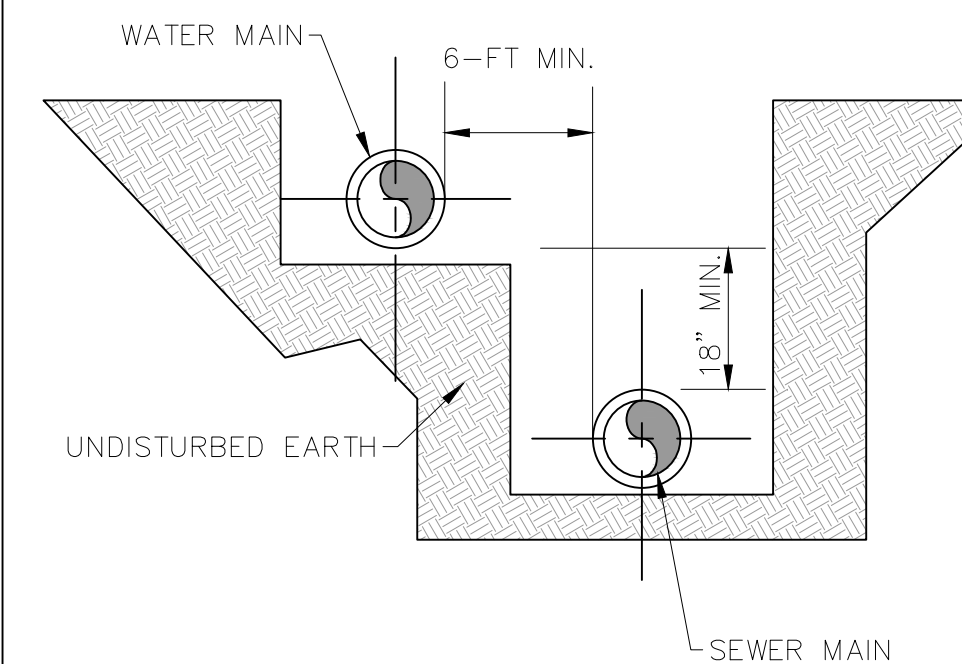
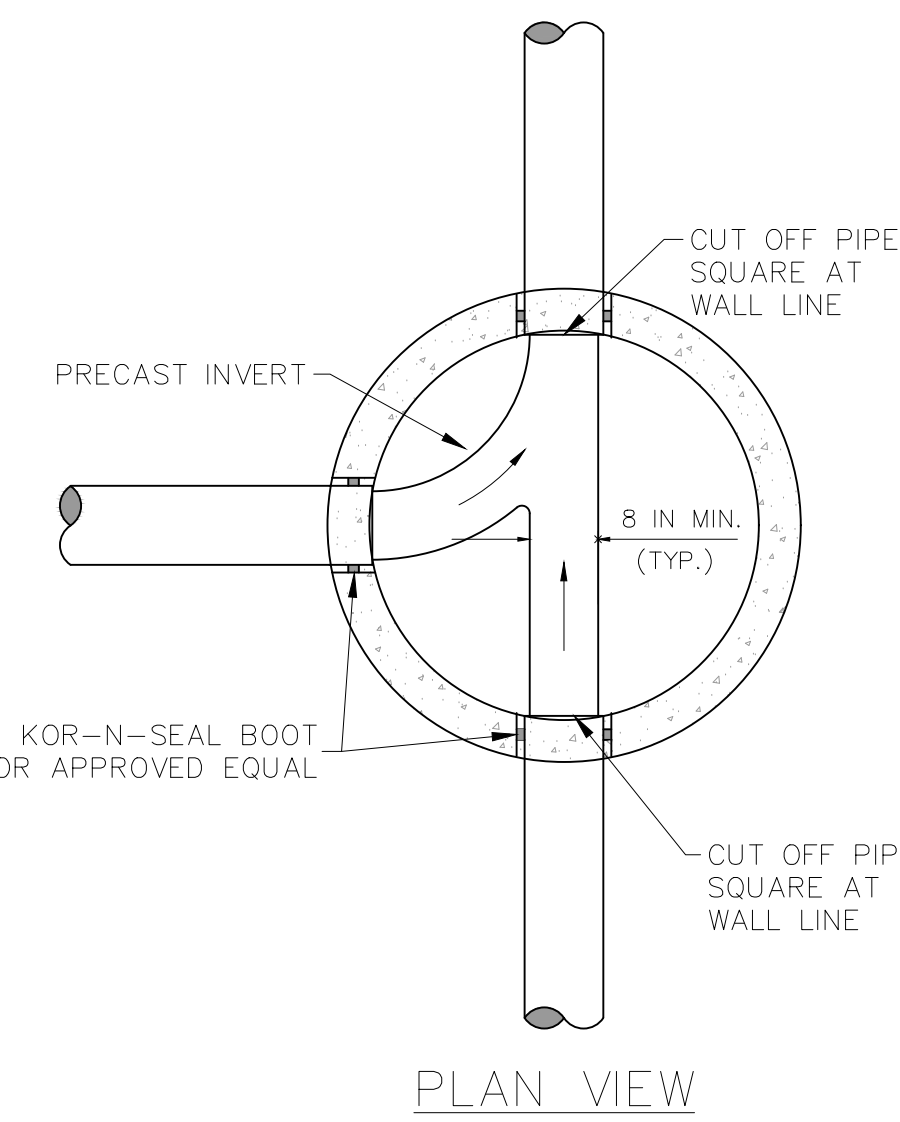


5 PRECAST MANHOLE PIPE CONNECTIONS

N.T.S.

- NOTES:
1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C-478 WITH 4,000 LB. CONCRETE, TYPE II CEMENT.
 2. THE INTERIOR AND EXTERIOR OF MANHOLE SHALL BE GIVEN TWO COATS OF FABERTITE BITUMINOUS WATERPROOFING MATERIAL, DO NOT COAT JOINT OR PIPE OPENING SURFACES.
 3. MANHOLE FRAME AND COVER SHALL BE U.S. FOUNDRY E-170 OR EQUIVALENT.
 4. ALL GREASE INTERCEPTORS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CHAPTER 10 OF THE 2004 FLORIDA BUILDING CODE, PLUMBING SECTION.

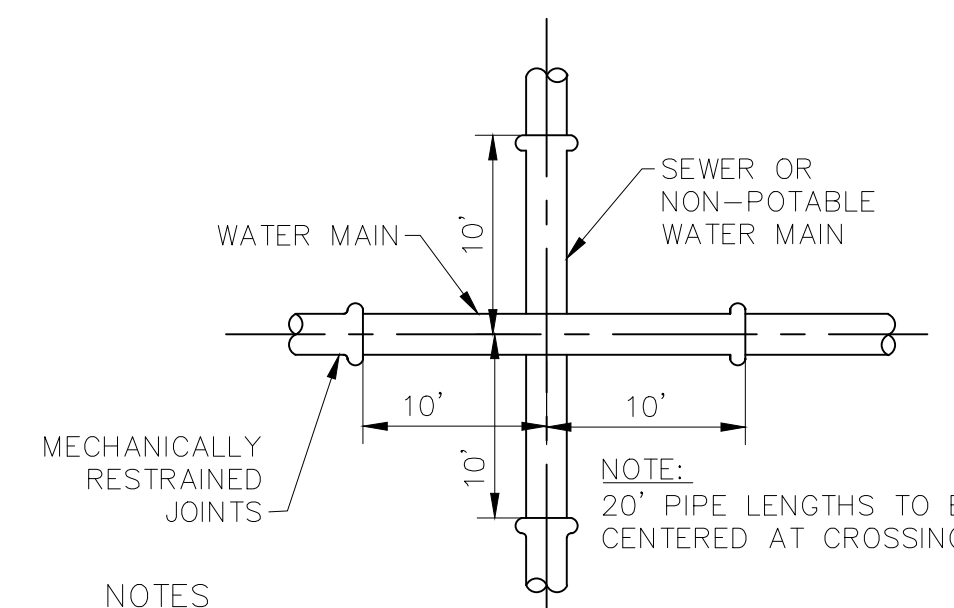
- BEDDING DETAIL NOTES:
- 1.0 THE BACKFILL TO A POINT TWELVE (12) INCHES ABOVE THE PIPE SHALL BE PLACED BY HAND AND SHALL BE CAREFULLY SELECTED MATERIAL FREE FROM ROCKS, BOULDERS, CLODS, ORGANIC MATERIAL, OR OTHER DEBRIS AND LIGHTLY COMPACTED PRIOR TO PLACING REMAINING BACKFILL. THE BALANCE OF THE BACKFILL MAY BE PLACED IN THE DITCH BY HAND OR BY MECHANICAL EQUIPMENT. NO BACKFILL SHALL BE DROPPED DIRECTLY ONTO EXPOSED PIPE.
 - 2.0 CONTRACTOR SHALL EMPLOY AN EXCAVATOR-MOUNTED TRENCH ROLLER OR OTHER MECHANICAL COMPACTION EQUIPMENT TO PROVIDE BACKFILL DENSITIES OF 95% OR GREATER AT $\pm 2\%$ OPTIMUM MOISTURE CONTENT. SURFACE FLOODING AND WATER JETTING OF BACKFILL SHALL NOT BE PERMITTED FOR BACKFILL CONSOLIDATION.
 - 3.0 ALL BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 3.0 OF REGIONAL UTILITIES CONSTRUCTION SPECIFICATIONS
 - 4.0 PIPE COVER SHALL NOT BE LESS THAN 36 INCHES, NOR GREATER THAN 48 INCHES EXCEPT WHERE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS AND APPROVED BY REGIONAL UTILITIES.



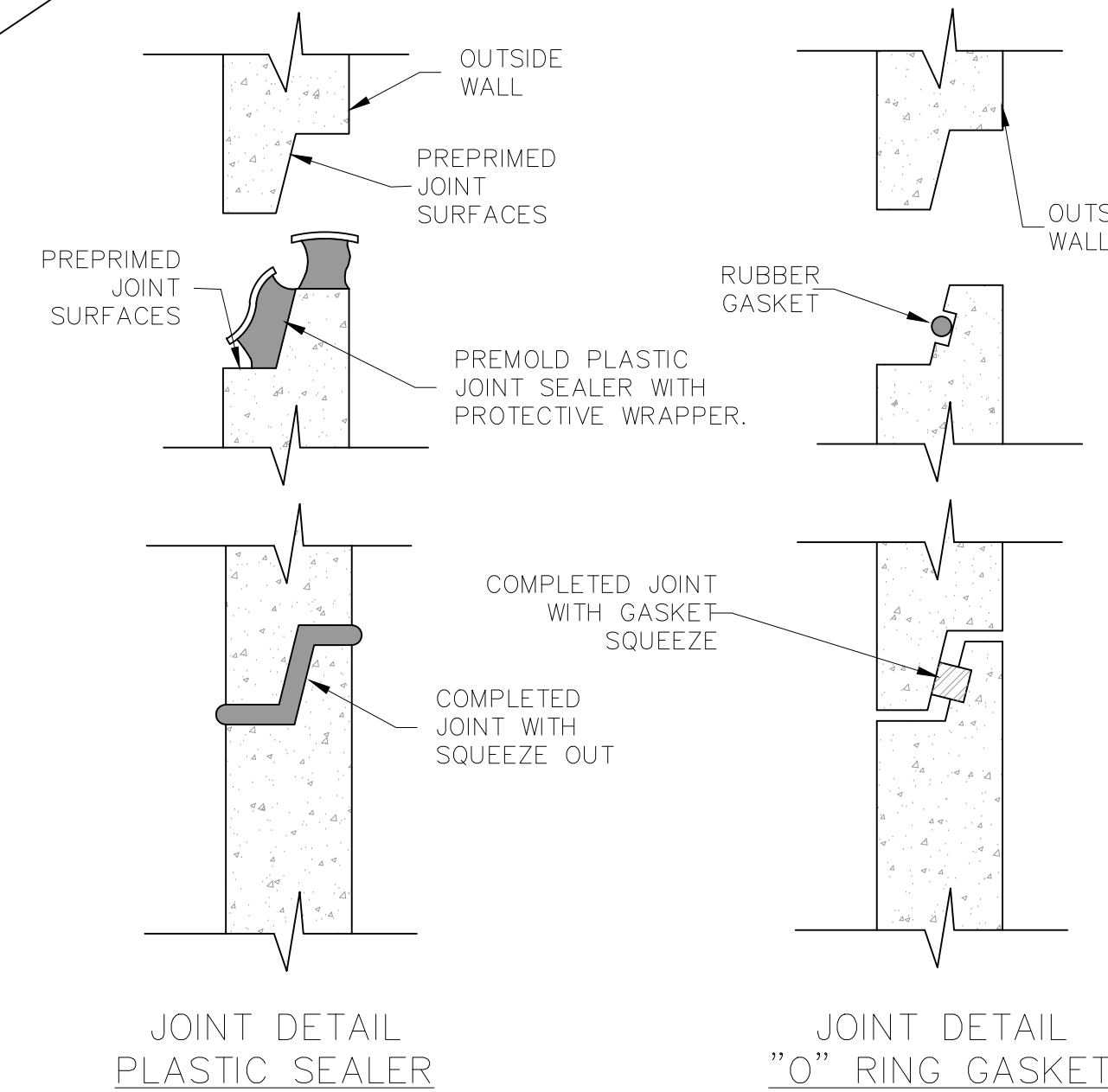
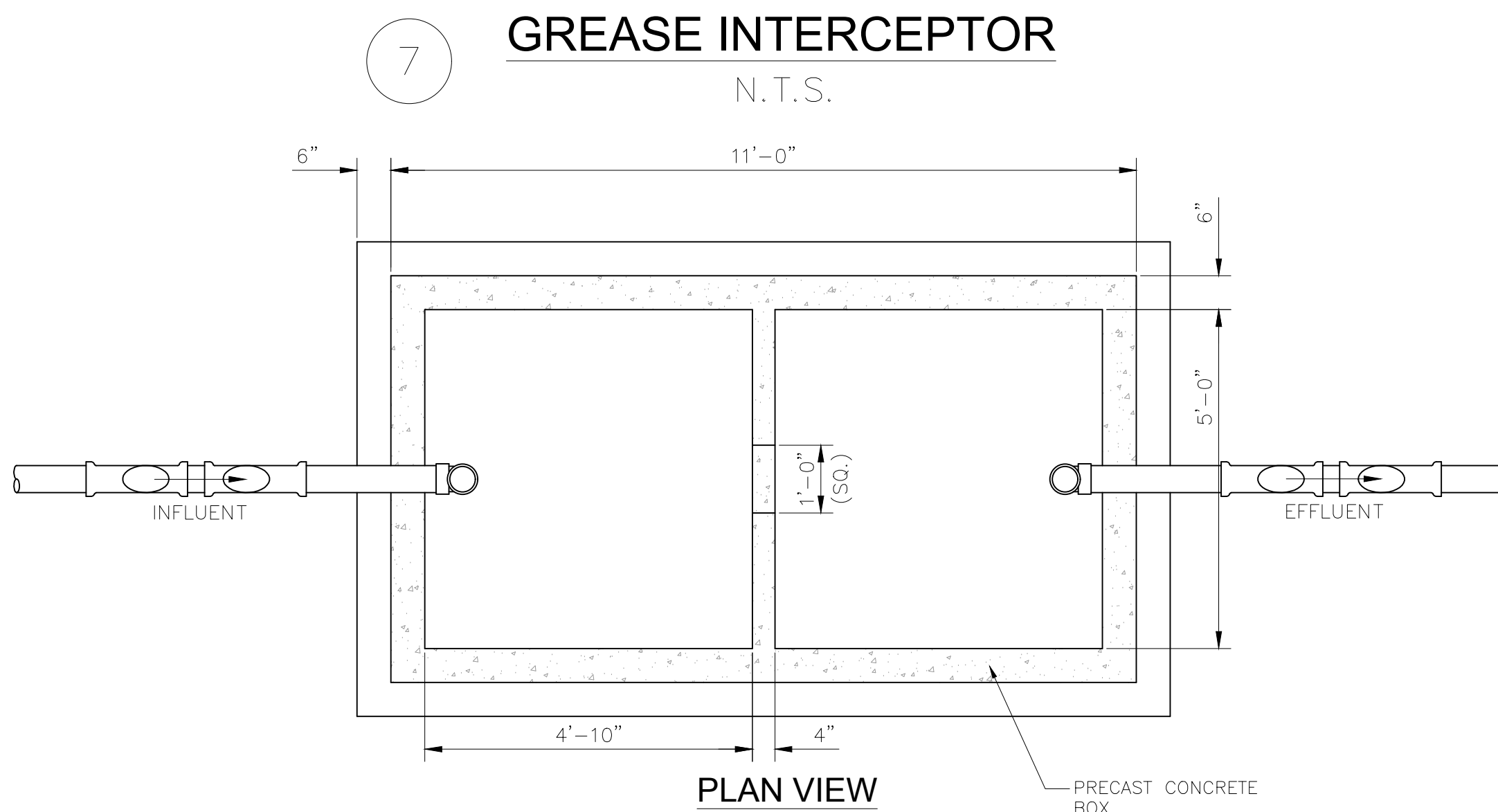
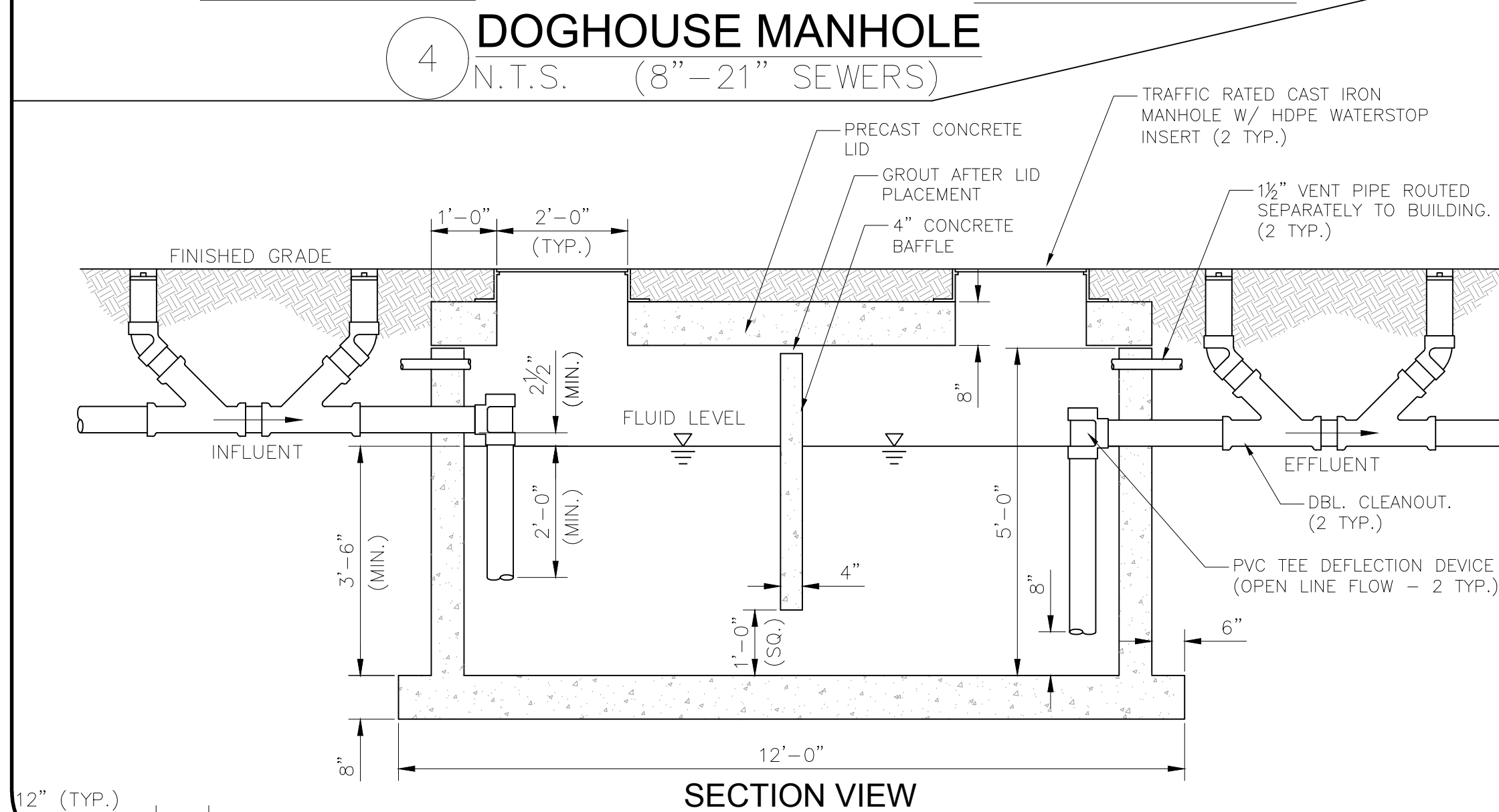
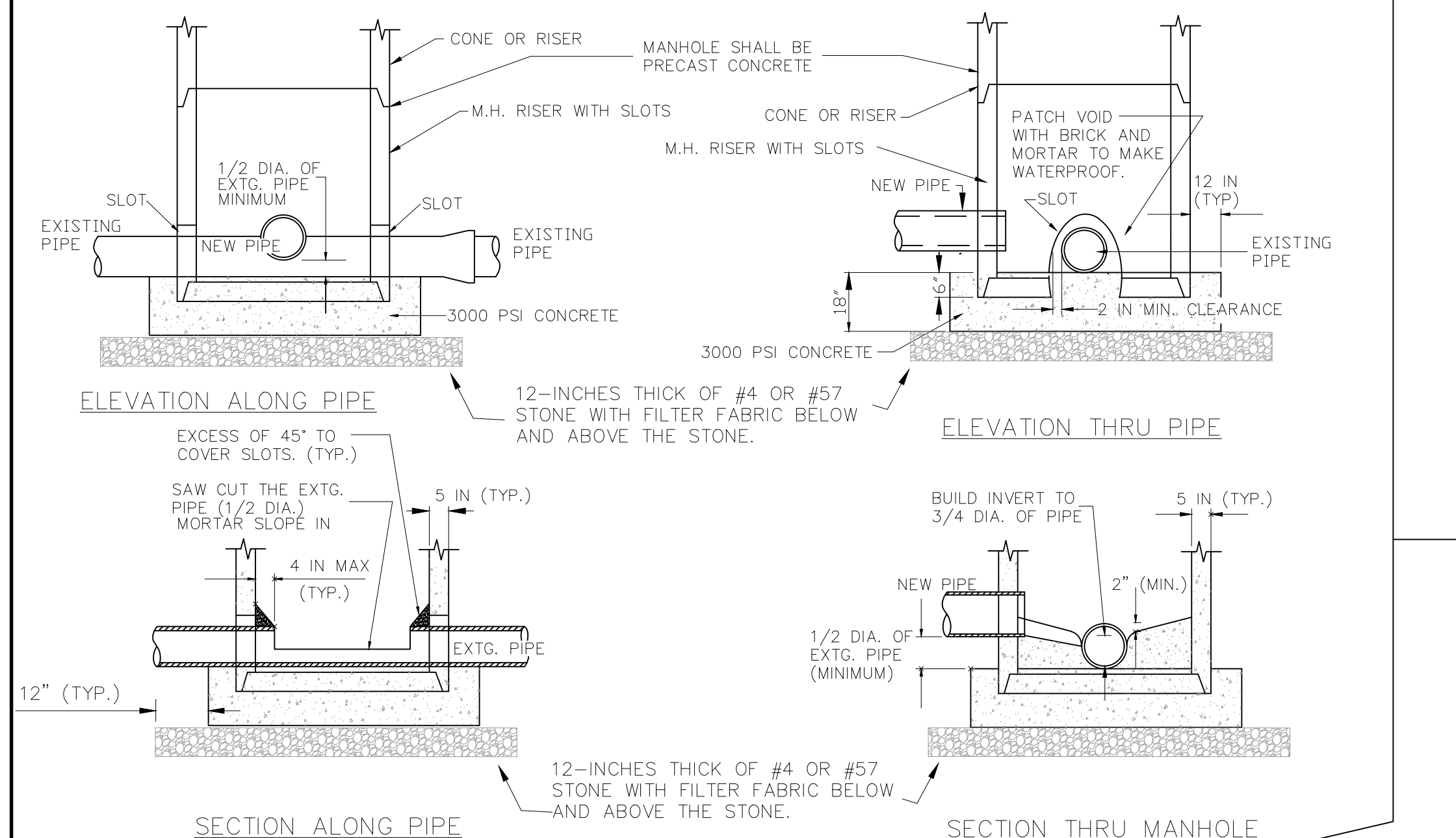
- NOTES
1. WHERE A 10 FOOT PARALLEL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASUREMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.
 2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

6 WATER/SEWER SEPARATION DETAIL

N.T.S.



- NOTES
1. WHERE A 18 INCH VERTICAL SEPARATION CANNOT BE MAINTAINED BETWEEN A WATER MAIN AND A SEWER MAIN OR NON-POTABLE WATER MAIN, CROSSING THEN THE WATER MAIN SHALL PASS OVER THE SEWER MAIN OR NON-POTABLE WATER MAIN WITH A MINIMUM VERTICAL CLEARANCE OF 12 INCHES. THE SEWER OR NON-POTABLE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING AND THE WATER MAIN SHALL BE 20 FEET OF 6" CONCRETE ENCASUREMENT CENTERED ON THE POINT OF CROSSING. CONCRETE ENCASUREMENT SHALL BE POURED SEPARATELY FOR EACH PIPE.
 2. ANYTHING LESS THAN SHOWN MUST BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.



- NOTE:
- USE HYDRAULIC CEMENT GROUT INSIDE AND OUT AT JOINTS AND COAT WITH TWO COATS OF FABERTITE BITUMINOUS WATER PROOFING MATERIAL.

8 TYPICAL MANHOLE JOINT DETAIL

N.T.S.

NO.	DATE	APPR.	REVISION
1	3/02/10	NOC	UPDATE CONSTRUCTION DETAILS
2	3/3/14	RAD	UPDATE SEWER LATERAL DETAIL
3	1/1/16	RAD	ADDED DOGHOUSE MANHOLE DETAIL
4	1/1/18	RAD	CHANGED HORIZONTAL SEPARATION DETAIL
5	3/01/19	RAD	ADDED #57 STONE BENEATH MANHOLES
			CHANGES SEWER SERVICE LATERAL

REGIONAL UTILITIES
OPERATED BY FLORIDA COMMUNITY SERVICES
CORPORATION OF WALTON COUNTY INC.

4432 HWY 98 EAST
Santa Rosa Beach, FL 32459
Phone: (850) 231-5114
Fax: (850) 231-4924

SANITARY SEWER
STAND DETAILS

PROJECT NAME:	SEAL:
DRAWN BY: RT	CHECKED BY: RAD
PROJECT NO.: 000-000	DRAWING SCALE: N.T.S.
PLOT DATE:	SHEET NO. 1 OF 2
SHEET:	S-2