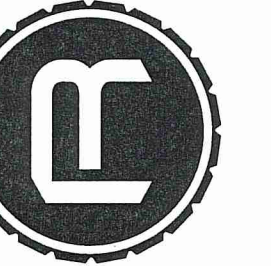
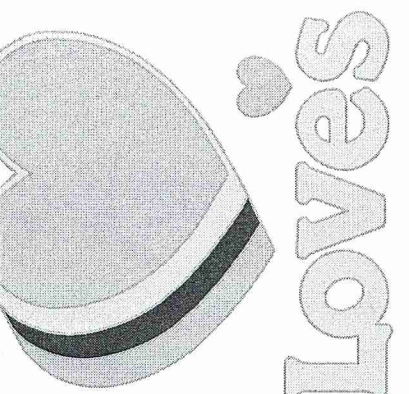




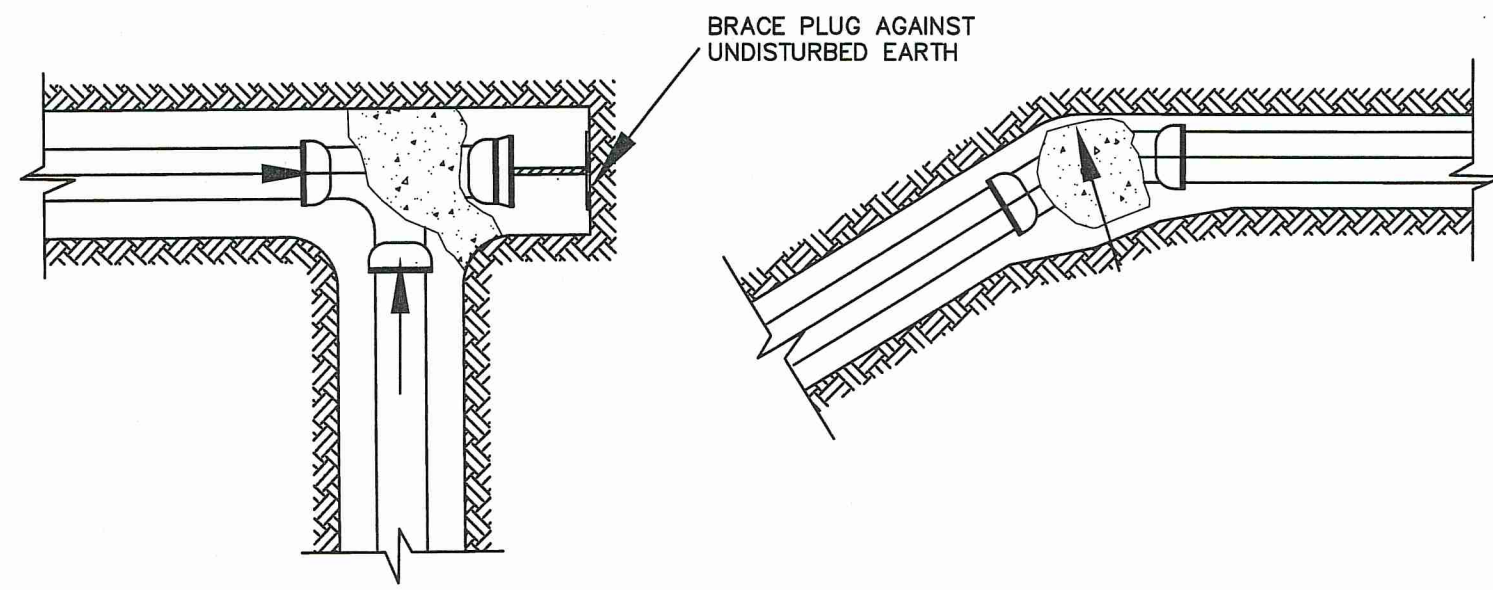
RESOURCECONSULTING
 CIVIL ENGINEERING
 6700 Jefferson Highway - Resource Suite 4A
 Baton Rouge, Louisiana 70806
 ResourceConsulting@hotmail.com
 Tel: (225) 761-9909, Fax: (225) 766-6672



LOVE'S TRAVEL STOP
 INTERSTATE 59 EXIT 1 @ MS HIGHWAY 607
 PEARL RIVER COUNTY, MISSISSIPPI

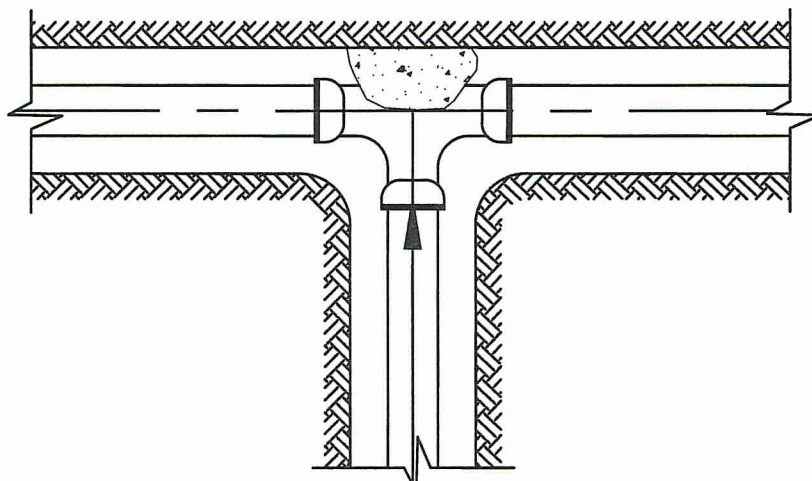


C9.4

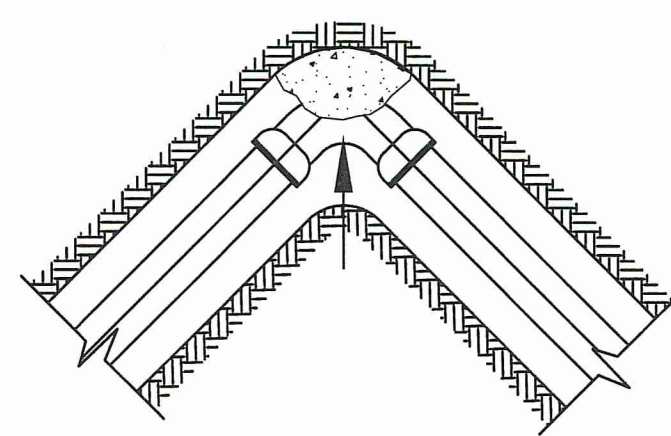


PLUGGED TEE
NTS

VERTICAL BEND
NTS



TEE
NTS



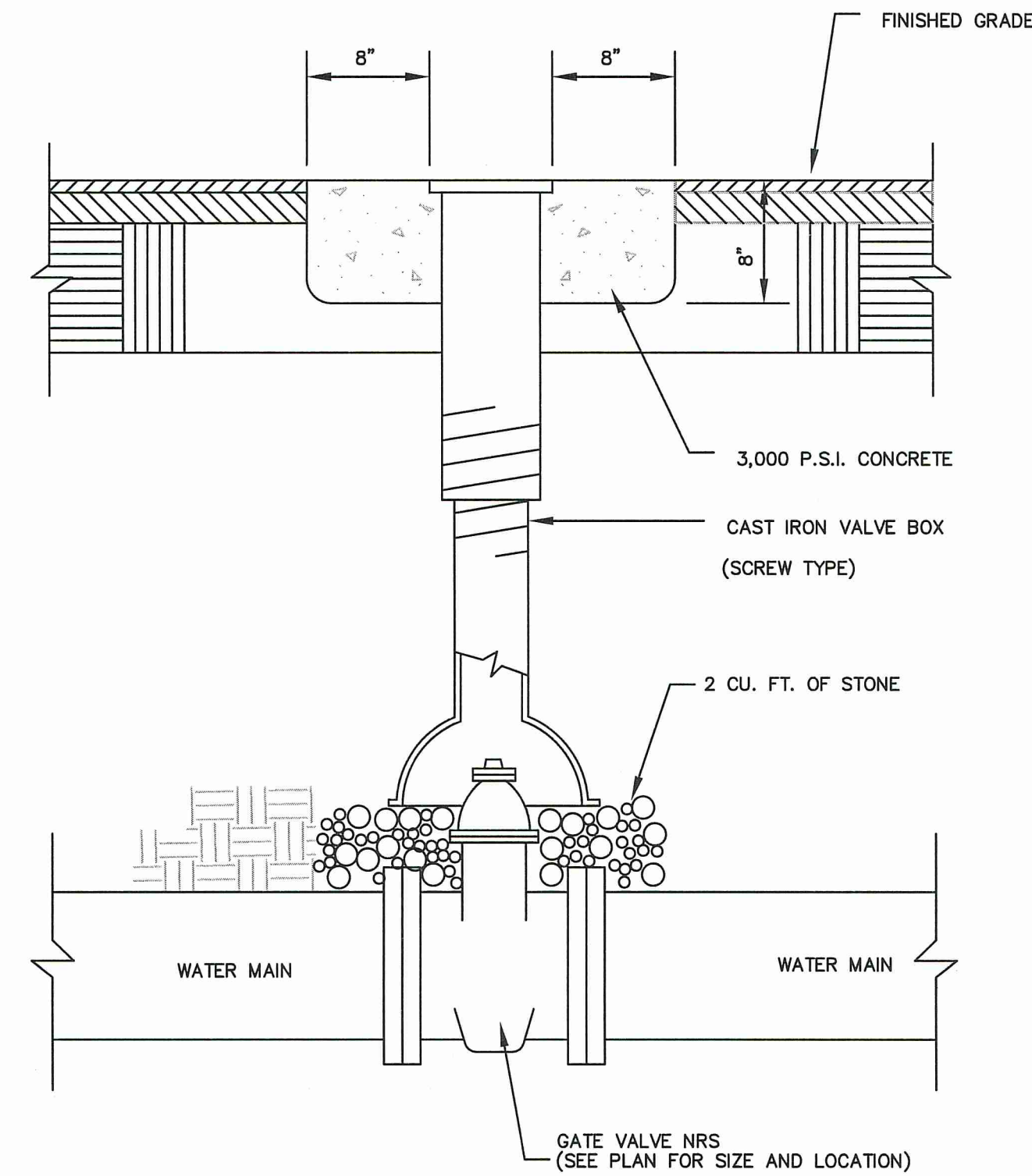
90° ELBOW
NTS

1. ALL BLOCKS MUST BEAR AGAINST UNDISTURBED EARTH.
2. ARROWS INDICATE DIRECTION OF THRUST.
3. ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 3000 PSI AT 28 DAYS.

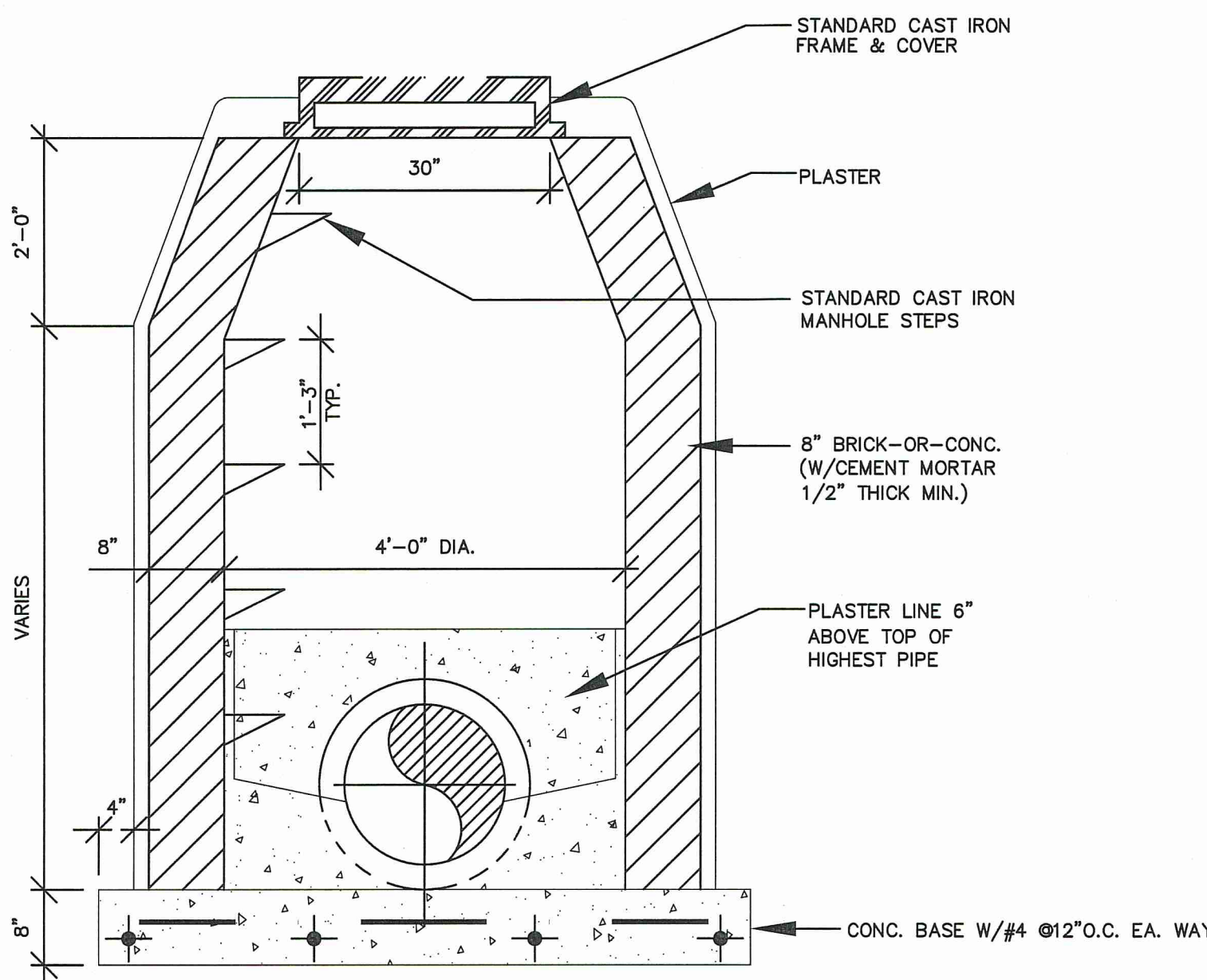
PROVIDE MINIMUM BEARING AREA IN S.F. AS FOLLOWS
 BASED ON 150 PSI TEST PRESSURE AND 2000 PSF SCH.
 BEARING (UNLESS OTHERWISE DETAILED)

PIPE SIZE	TEE DEADENDS	11 1/4" BEND	22 1/2" BEND	45° BEND	90° BEND
4"	1.0	0.5	0.5	0.8	1.3
6"	2.2	0.5	0.8	1.5	3.0
8"	3.8	0.8	1.5	2.9	5.3
10"	6.0	1.2	2.3	4.5	8.4
12"	8.5	1.7	3.3	6.5	12.1
14"	11.5	2.3	4.5	8.9	16.4
16"	15.2	3.0	5.8	11.5	21.4

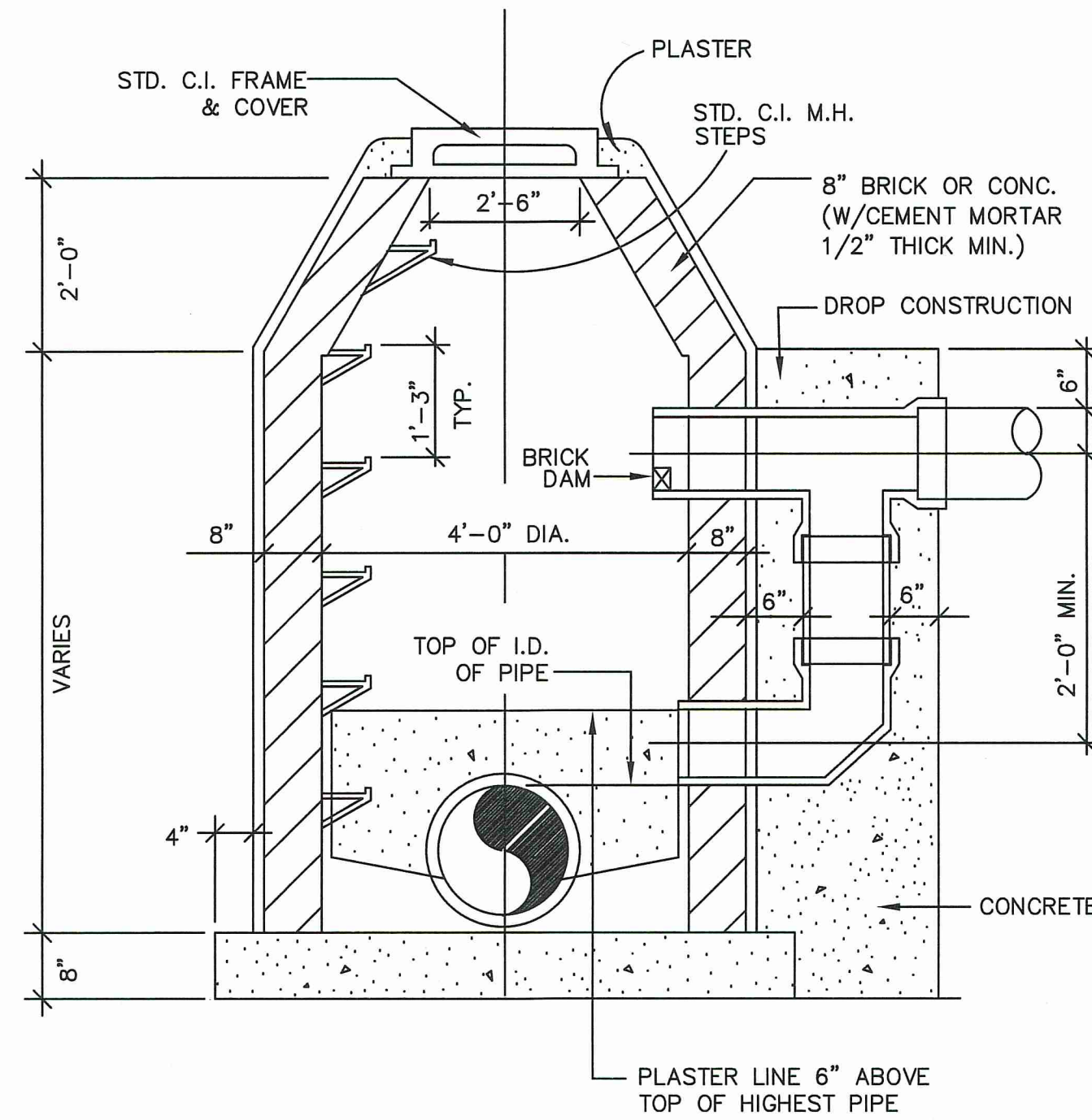
THRUST BLOCK DETAIL
N.T.S. CUI2



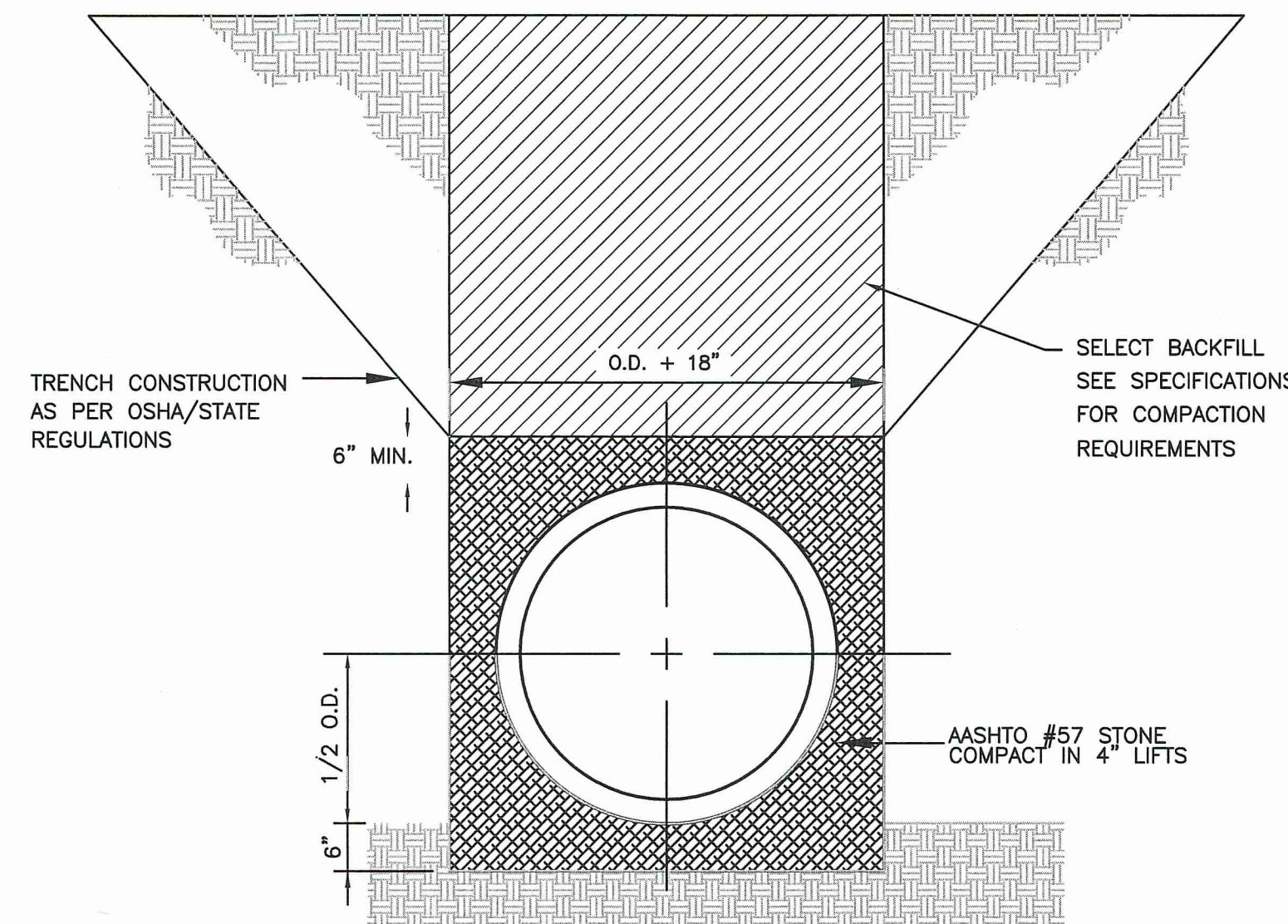
VALVE BOX SETTING
N.T.S. CUI4



MANHOLE / JUNCTION BOX DETAIL
NO SCALE CUI07



SANITARY SEWER DROP MANHOLE
NO SCALE CUI04



TRENCH & BEDDING DETAIL
N.T.S. (FOR WATER & SANITARY LINES ONLY) CUI00

- NOTES:
1. BEDDING MATERIALS SHALL BE CLASS I, II, OR III MATERIALS AS DEFINED IN TABLE 1, ASTM D-2321. INSTALLATION OF THESE MATERIALS SHALL BE AS PER TABLE 2.
 2. HAUNCH MATERIALS SHALL BE CLASS I, II, OR III PER D-2321, TABLE 2.
 3. INITIAL BACKFILL MATERIALS SHALL BE CLASS I, II, OR III MATERIALS AS REQUIRED ABOVE, RESTRICTED AS PER ASTM D-2321, TABLE 2.
 4. MINIMUM TRENCH WIDTHS (AS REQUIRED BY ASTM D-2321), ARE AS FOLLOWS:

WIDTH, CPP	MIN. TRENCH
8"	25"
10"	27"
12"	30"
15"	34"
18"	38"
24"	48"
30"	66"
36"	78"
42"	83"
48"	89"

- A LESSER TRENCH WIDTH WILL BE PERMITTED ONLY WHERE IT IS DETERMINED THE CONTRACTOR CAN UTILIZE EQUIPMENT CAPABLE OF MEETING THE REQUIRED INSTALLATION DENSITIES.
5. WHERE THE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH AS REQUIRED BY THE ENGINEER AND REPLACE AS AN ALTERNATE, TRENCH BOTTOM MAY BE STABILIZED USING A GEOFABRIC.



3/1/23

THIS DRAWING IS NOT VALID WITHOUT AN ORIGINAL BLUE INK SIGNATURE AND ORIGINAL HANDWRITTEN DATE OF A LICENSED PROFESSIONAL ENGINEER.

UTILITY DETAILS

C9.4