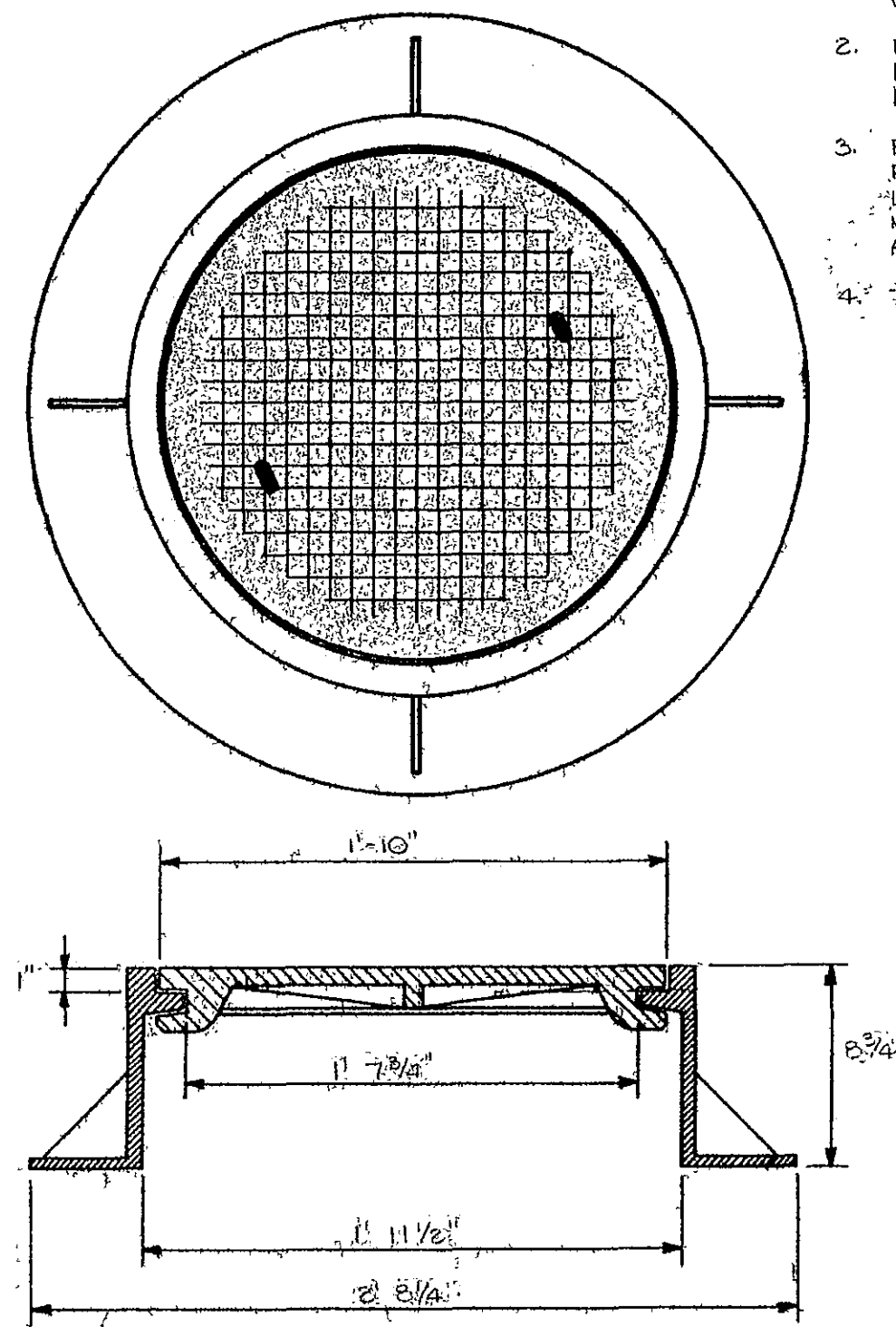
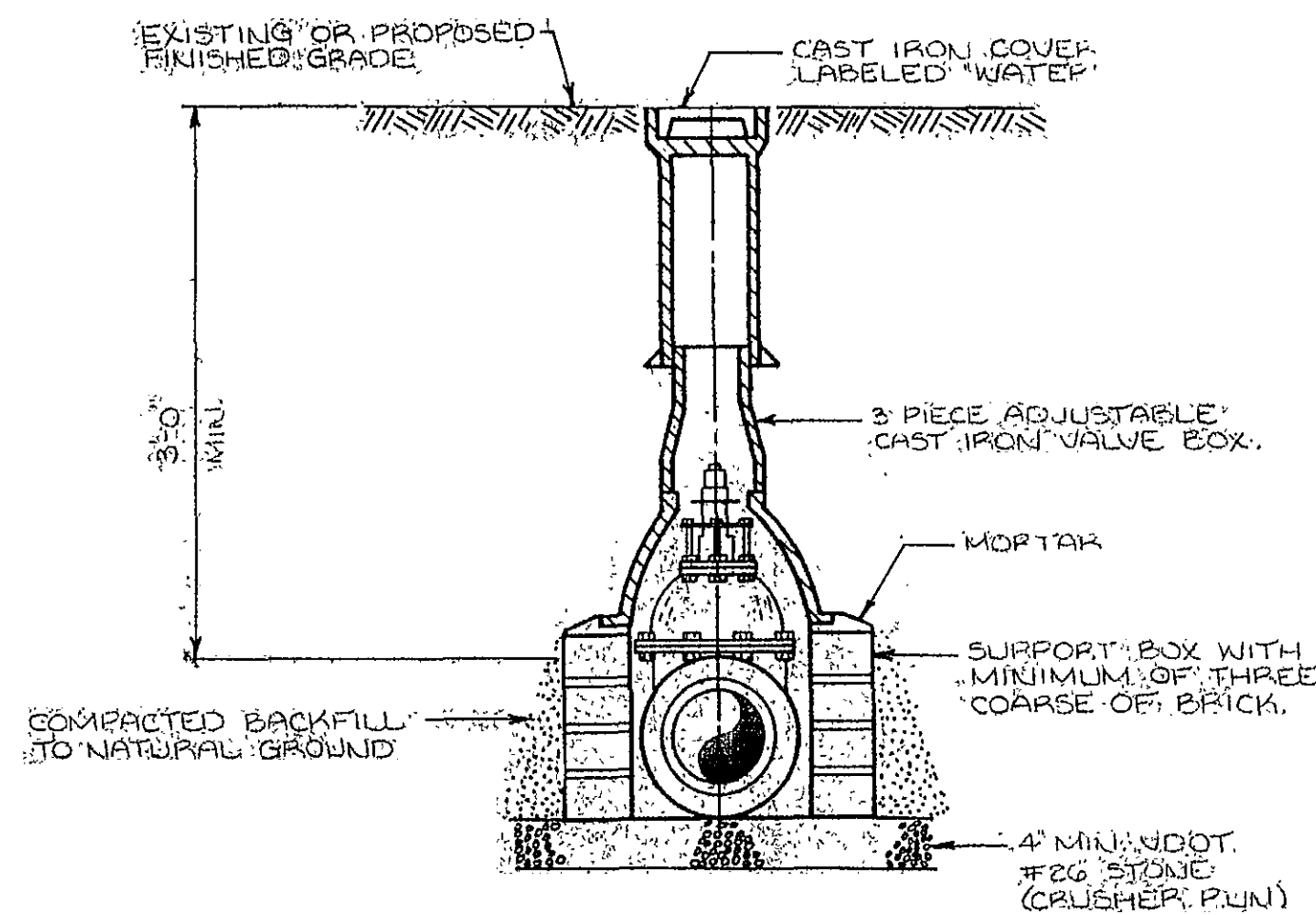




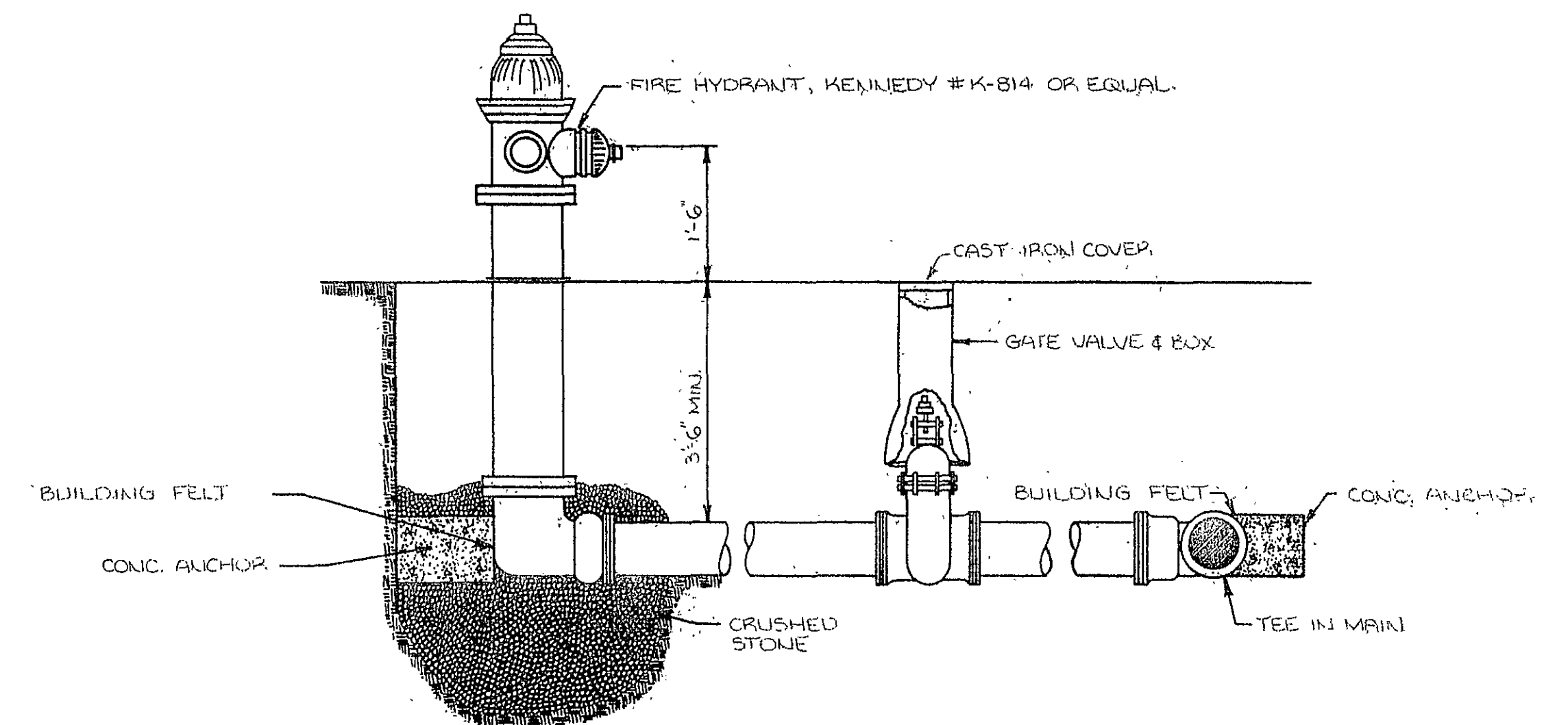
TYPICAL MANHOLE FRAME AND COVER DETAIL
NO SCALE

301.1
301



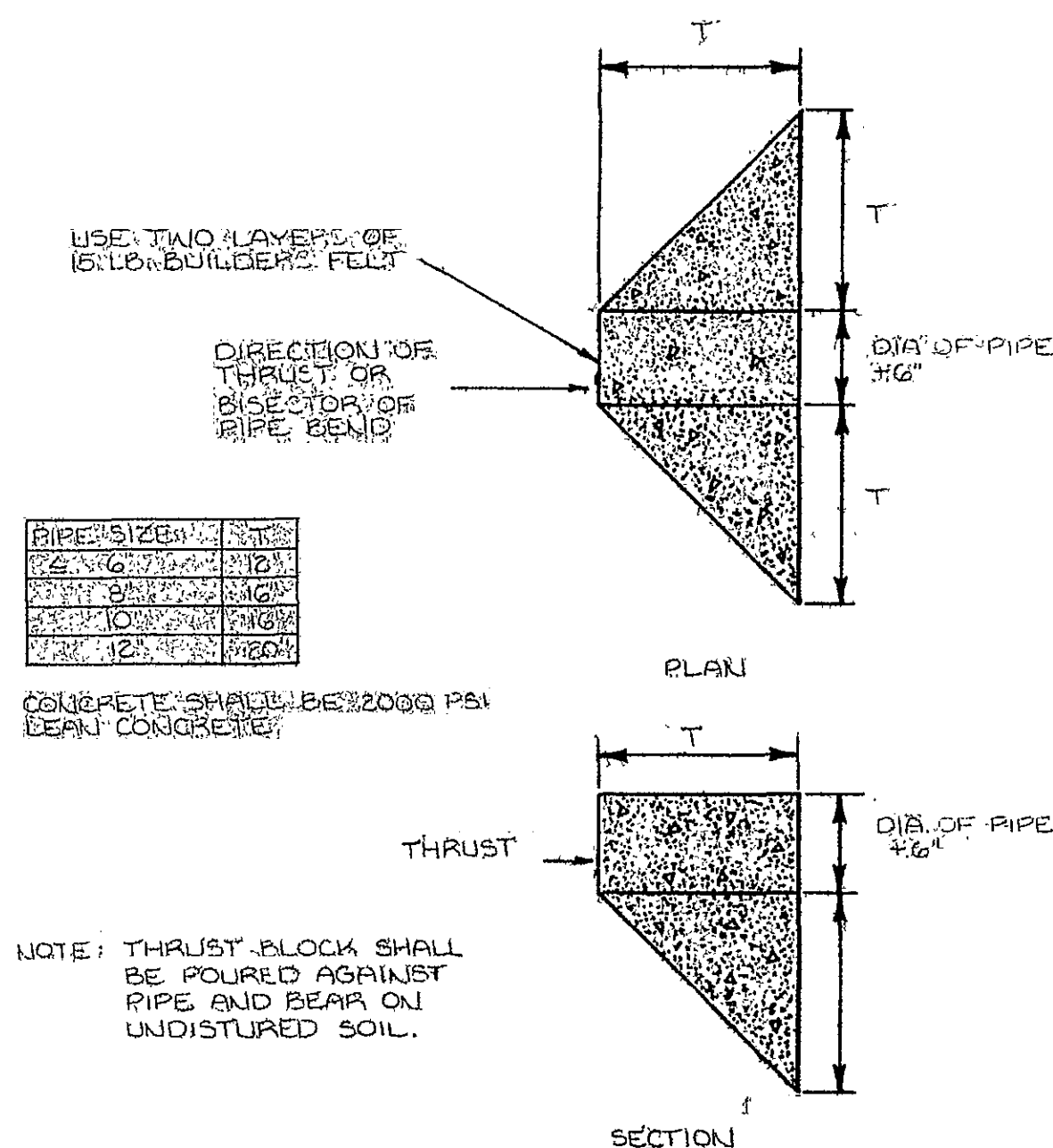
TYPICAL GATE VALVE INSTALLATION
NO SCALE

301.2
301



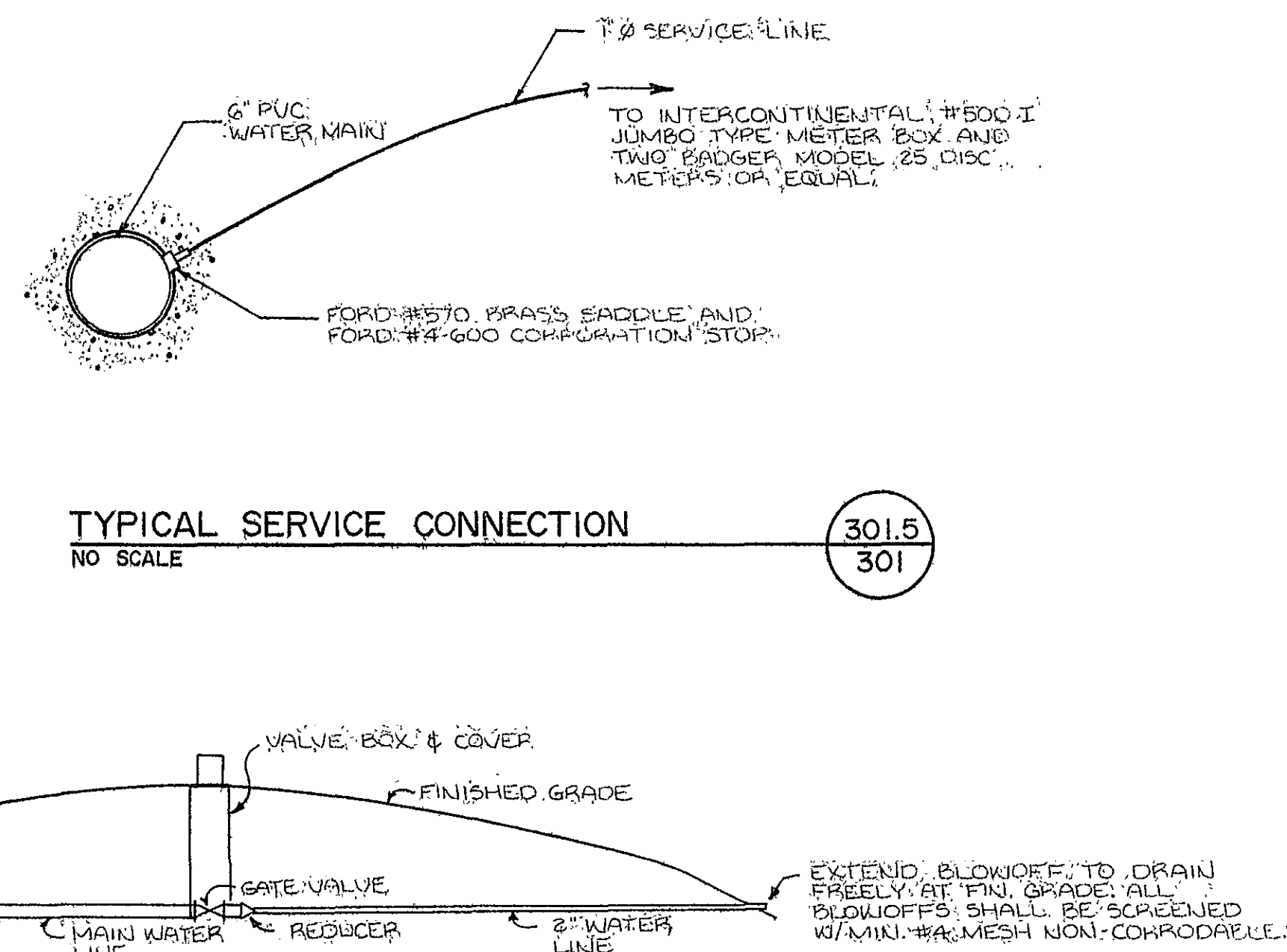
TYPICAL FIRE HYDRANT CONNECTION
NO SCALE

301.3
301



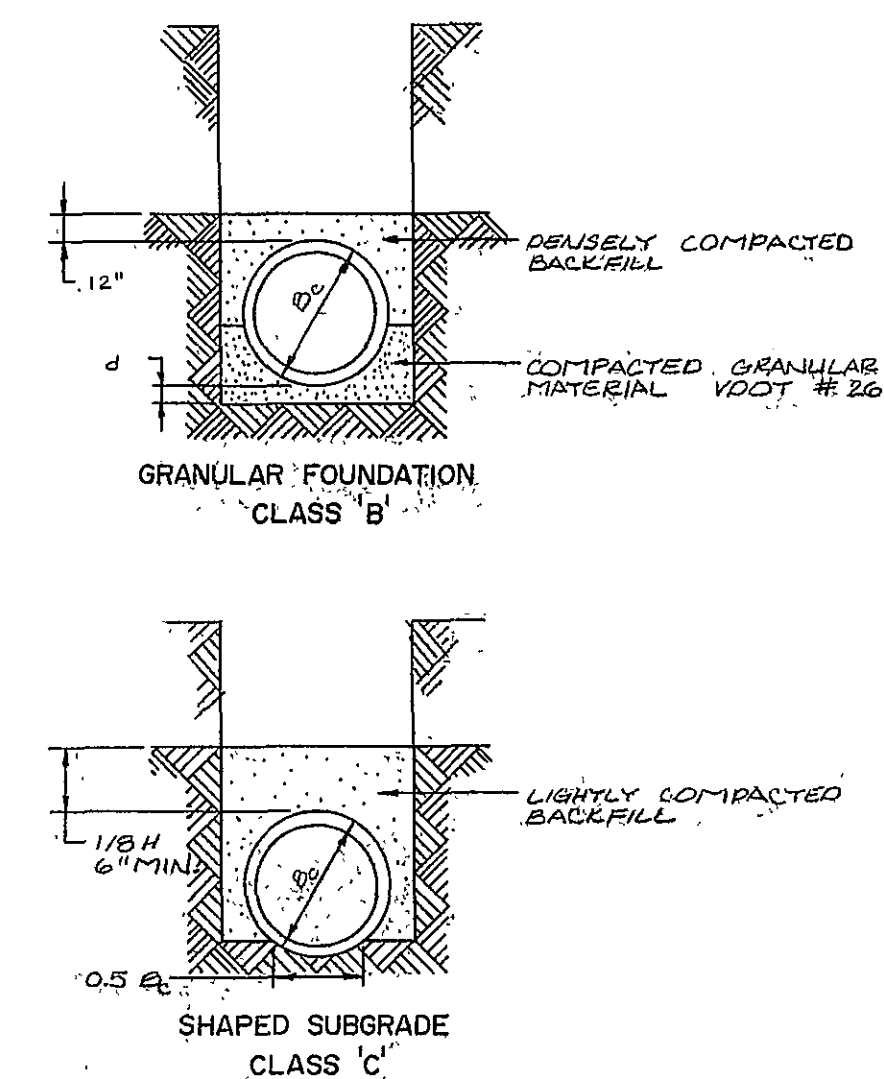
THRUST BLOCK DETAIL
NO SCALE

301.4
301



TYPICAL SERVICE CONNECTION
NO SCALE

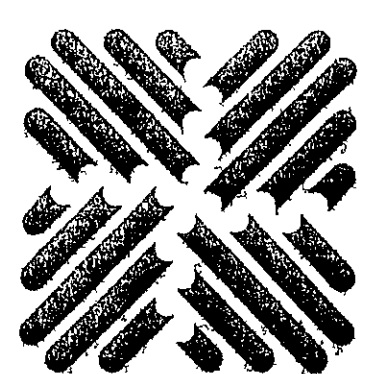
301.5
301



TRENCH BEDDINGS DETAIL
NO SCALE

301.7
301

- NOTES:
- 1) All water mains shall be PVC, SDR-21, iron pipe size, 200 psi rated with integral bell and gasketed joints. All pipes shall bear the NSF-PW symbol to be utilized for potable water use.
 - 2) All valves 3 inches and larger shall meet AWWA C-500 standards, double disc gate valves, Kennedy #711-2 or equal. Valves 1 inch and smaller shall be bronze body, threaded ball valves with Teflon seats and seals, lever handle, Apollo #70-100 Series or equal.
 - 3) All valve boxes shall be two piece, cast iron adjustable screw-type with lid marked "water".
 - 4) All water lines shall be located a minimum of 30 feet from subsurface drain fields.
 - 5) Maintain a vertical separation of at least 18 inches between water lines and sewer lines. Where water lines pass beneath sewer lines, adequate structural support must be provided to prevent settlement of the sewer line onto the water line.
 - 6) Blowoffs shall be installed at all deadends if a hydrant is not provided.
 - 7) All water lines shall be disinfected by means of the "tablet" or "continuous feed" method per the Virginia Department of Health's regulations.
 - 8) Any stone and/or rock encountered in trench shall be removed to 6-inches below the water line for Phase I - Island Greene Drive, Marina Bay Drive and Condominiums.
- A. TABLET METHOD
- This method shall not be used if nonpotable water or foreign materials have entered the lines or if the water temperature is below 5°C (41°F).
- The tablets shall be placed in each section and in all appurtenances. Enough tablets shall be used to insure that a chlorine concentration of 25 mg/l is provided in the water. They shall be attached by an adhesive to the top of the pipe sections and crushed or rubbed in all appurtenances. The adhesive shall be acceptable to the Bureau. The velocity of the potable water in the pipe line shall be less than 1 ft./sec. The water shall then remain in contact with the pipe for 24 hours. All valves and appurtenances shall be operated while the chlorinated water is in the pipe line.
- B. CONTINUOUS FEED METHOD
- Potable water shall be introduced into the pipe line at a constant flow rate. Chlorine shall be added at a constant rate to this flow so that the chlorine concentration in the water in the pipe is at least 50 mg/l. The chlorinated water shall remain in the pipe line at least 24 hours after which the chlorine concentration in the water shall be at least 10 mg/l. All valves and appurtenances shall be operated while the chlorinated water remains in the pipe line.



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Designed KEM
Drawn SEL
Checked PBH

Scale AS SHOWN
Job No. 10982
Date APR. 1, 1988

**THE WATER'S EDGE
WATER DISTRIBUTION SYSTEM**

DETAIL SHEET

Sheet No			
301			
File No			
Rev.	Description	Date	By
1	REVISED - PHASE I	5/ 6 /88	KEM
0	DESIGN ISSUE - PHASE I	4/ 1 /88	KEM