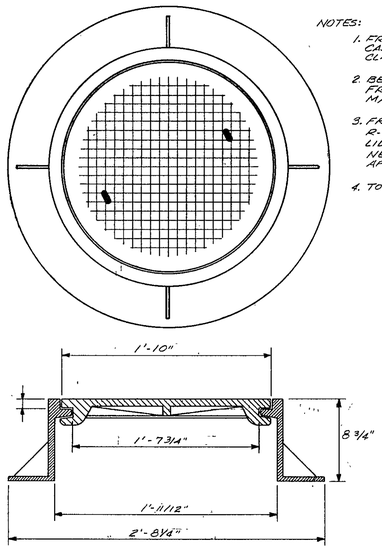
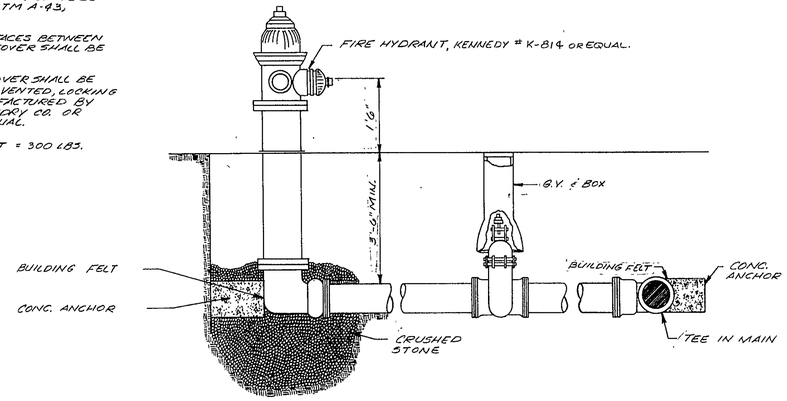


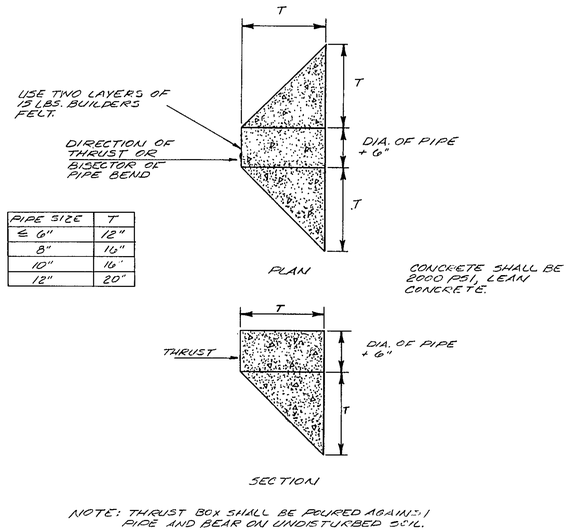
NOTES:

1. FRAME AND COVER SHALL BE CAST FROM ASTM A-48, CLASS 30.
2. BEARING SURFACES BETWEEN FRAME AND COVER SHALL BE MACHINED.
3. FRAME AND COVER SHALL BE R-1920 WITH VENTED, LOCKING LID AS MANUFACTURED BY NEENAH FOUNDRY CO. OR APPROVED EQUAL.
4. TOTAL WEIGHT = 300 LBS.

TYPICAL MANHOLE FRAME AND COVER DETAIL — 301.1 / 301



TYPICAL FIRE HYDRANT CONNECTION — 301.2 / 301

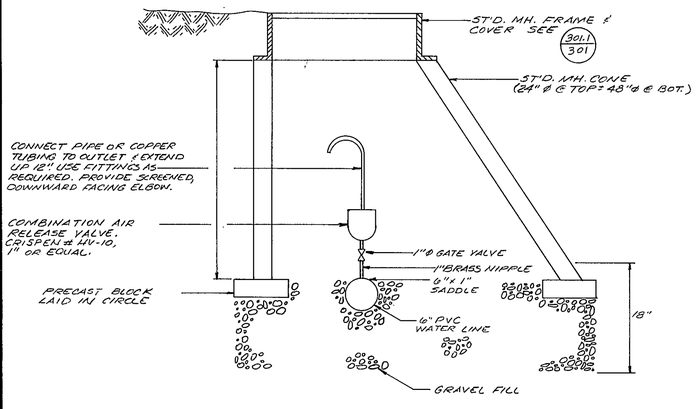


PIPE SIZE	T
≤ 6"	12"
8"	14"
10"	16"
12"	20"

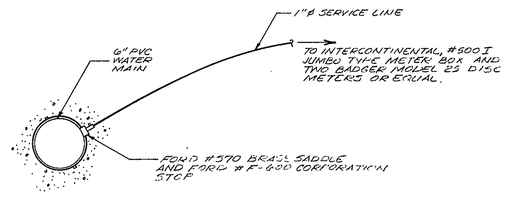
CONCRETE SHALL BE 2000 PSI, LEAN CONCRETE.

NOTE: THRUST BOX SHALL BE POURED AGAINST UNDISTURBED SOIL.

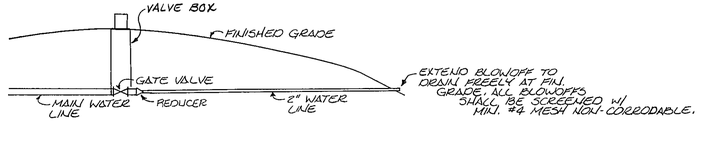
THRUST BLOCK DETAIL — 301.3 / 301



AIR RELEASE ASSEMBLY — 301.4 / 201



TYPICAL SERVICE CONNECTION — 301.5 / 301



TYPICAL BLOWOFF DETAIL — 301.6 / 301

NOTES:

1) All water mains shall be PVC, SDR-21, iron pipe size, 200 psi rated with intergral 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 #571-X 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.

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.

OLVER INCORPORATED
Consulting Engineers • Environmental Laboratories
1531 NORTH MAIN STREET
BLACKSBURG, VIRGINIA 24060
(703) 552-5548

Designed WCK
Drawn CWC
Checked KEM

Scale NONE
Job No. 10645
Date JULY 23,1985

THE WATER'S EDGE

DETAIL SHEET

Rev.	Description	Date	By
3	VDH SUBMITTAL	8/27/86	WCK
2	VDH SUBMITTAL- 301.6 & NOTES ADDED	7/31/86	WCK
1	VDH SUBMITTAL	6/20/86	WCK
0	DESIGN ISSUE	7/23/85	WCK

Sheet No. 301

File No.