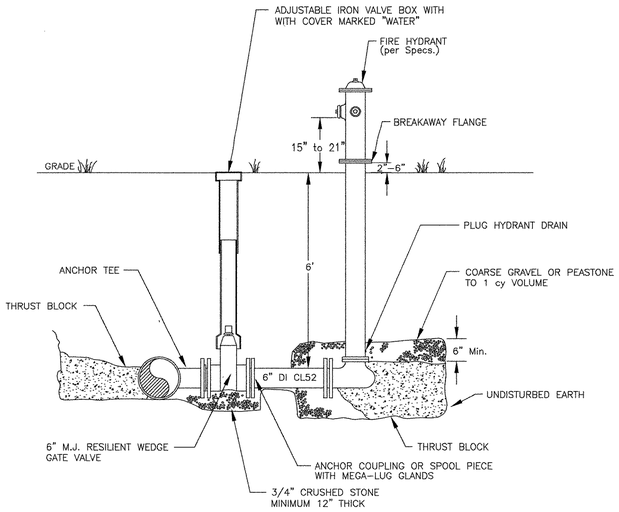
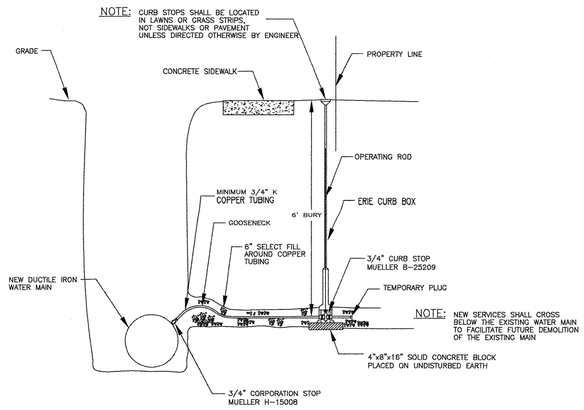



NOTES:

1) ALL FITTINGS ARE TO HAVE MEGA-LUG RETAINER GLANDS
2) PRIOR TO POURING THRUST BLOCKS ALL FITTINGS ARE TO BE WRAPPED WITH 4mil. POLYETHYLENE.

## HYDRANT ASSEMBLY DETAIL

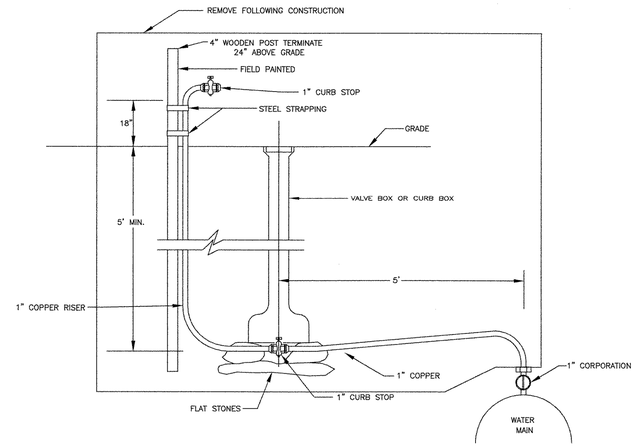
NOT TO SCALE




NOTE: SEE SPECIFICATIONS FOR TAPPING SADDLE REQUIREMENTS

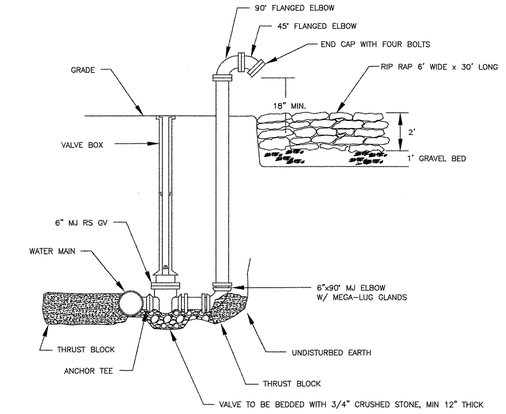
## WATER SERVICE CONNECTION

NOT TO SCALE




## MANUAL AIR RELEASE and/or CHLORINATION INJECTION INSTALLATION

NOT TO SCALE

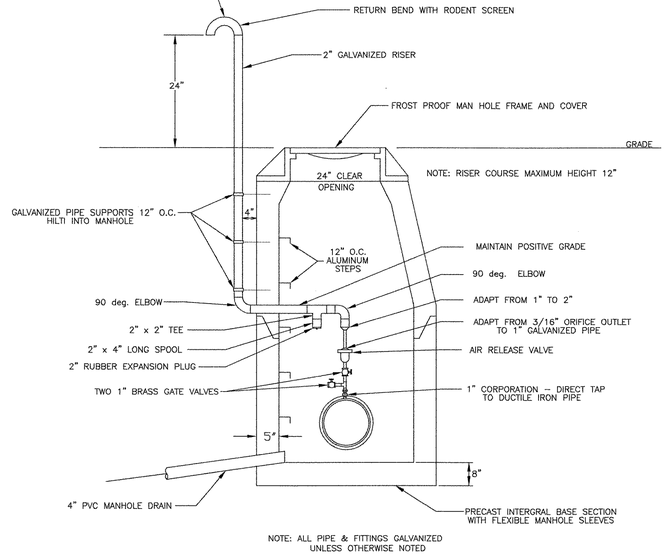



NOTES:

1) PRIOR TO POURING THRUST BLOCKS, ALL FITTINGS TO BE WRAPPED IN 4 MIL. POLYETHELENE
2) MEGA-LUG GLANDS OR APPROVED EQUAL ARE TO BE USED ON ALL MJ FITTINGS.

## 6" BLOWOFF ASSEMBLY

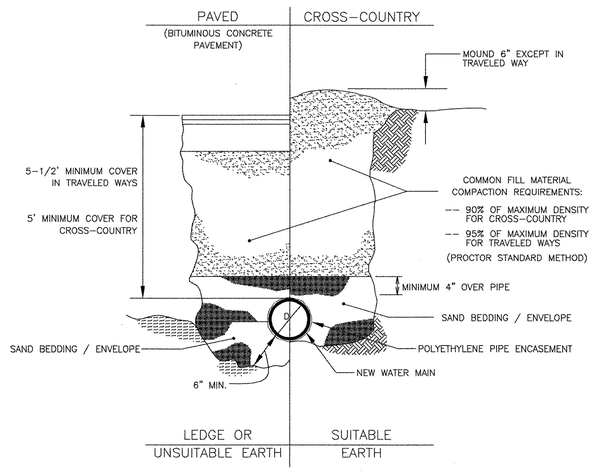
NOT TO SCALE




NOTE: ALL PIPE & FITTINGS GALVANIZED UNLESS OTHERWISE NOTED

## AIR RELEASE MANHOLE

NOT TO SCALE




## TYPICAL TRENCH DETAIL

NOT TO SCALE

MINIMUM AREA OF BEARING SURFACE OF CONC. THRUST BLOCKS
(IN SQUARE FEET)

| 3" | | | | 4" | | | | 6" | | | | 8" | | | | 12" | | | | 16" | | | | SOIL CONDITIONS | SAFE BEARING LOAD (PSF) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | ENDS & TEES | 90° ELB | 45° ELB | 22.5° ELB | | |
| 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.0 | 0.5 | 0.5 | 1.0 | 1.5 | 1.0 | 0.5 | 2.0 | 2.5 | 1.5 | 1.0 | 4.0 | 5.5 | 3.0 | 1.5 | 8.0 | 10.0 | 5.0 | 4.0 | SOUND SHALE | 10,000 |
| 1.0 | 1.0 | 1.0 | 0.5 | 1.5 | 2.0 | 1.0 | 0.5 | 3.0 | 4.0 | 2.0 | 1.0 | 4.5 | 6.5 | 3.5 | 2.0 | 10.0 | 14.0 | 7.5 | 4.0 | 25.0 | 30.0 | 15.0 | 12.0 | CEMENTED GRAVEL & SAND | 4,000 |
| 1.0 | 1.5 | 1.0 | 0.5 | 2.0 | 2.5 | 1.5 | 1.0 | 3.5 | 5.0 | 3.0 | 1.5 | 6.0 | 8.5 | 5.0 | 2.5 | 13.0 | 18.5 | 10.0 | 5.0 | 30.0 | 35.0 | 20.0 | 15.0 | COARSE & FINE COMPACT SAND | 3,000 |
| 1.5 | 2.5 | 1.5 | 1.0 | 2.5 | 3.5 | 2.0 | 1.0 | 5.5 | 7.5 | 4.0 | 2.0 | 9.0 | 13.0 | 7.0 | 3.5 | 20.0 | 27.5 | 15.0 | 8.0 | 40.0 | 45.0 | 25.0 | 20.0 | MEDIUM CLAY (CAN BE SPADED) | 2,000 |
| 3.0 | 4.5 | 2.5 | 1.5 | 5.0 | 7.0 | 4.0 | 2.0 | 10.5 | 15.0 | 8.0 | 4.0 | 18.0 | 25.0 | 14.0 | 7.0 | 39.0 | 55.0 | 30.0 | 15.0 | 80.0 | 90.0 | 50.0 | 40.0 | SOFT CLAY | 1,000 |
| MAXIMUM WATER PRESSURE = 300 PSI NOTE: REDUCER BEARING AREA = 45° BEND, LARGER PIPE | | | | | | | | | | | | | | | | | | | | | | | | | |

## THRUST BLOCK SIZING CHART


CHAMPLAIN WATER DISTRICT
403 Queen City Park Road
South Burlington, VT 05403
Phone: (802) 864-7454
Fax: (802) 864-0435


*Dedicated to Quality Water and Service*

SCALE: NONE

REVISIONS

| REV. # | DATE | BY |
|---|---|---|
| | | |

STATE OF VERMONT * RICHARD ALAN PRATT * NO. 6617 REGISTERED PROFESSIONAL ENGINEER

CONTRACT #63
WATER MAIN RELOCATION
U.S. ROUTE 7 - SHELBURNE ROAD

TYPICALS

| | |
|---|---|
| DATE: | APRIL, 2002 |
| DESIGNED BY: | RAP |
| DRAWN BY: | EJP |
| CHECKED BY: | RAP |
| APPROVED BY: | RAP |
| FILE NAME: | C63_TYP1 |
| SHEET 17 OF 18 | |
| DRAWING No. | TYP1 |

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