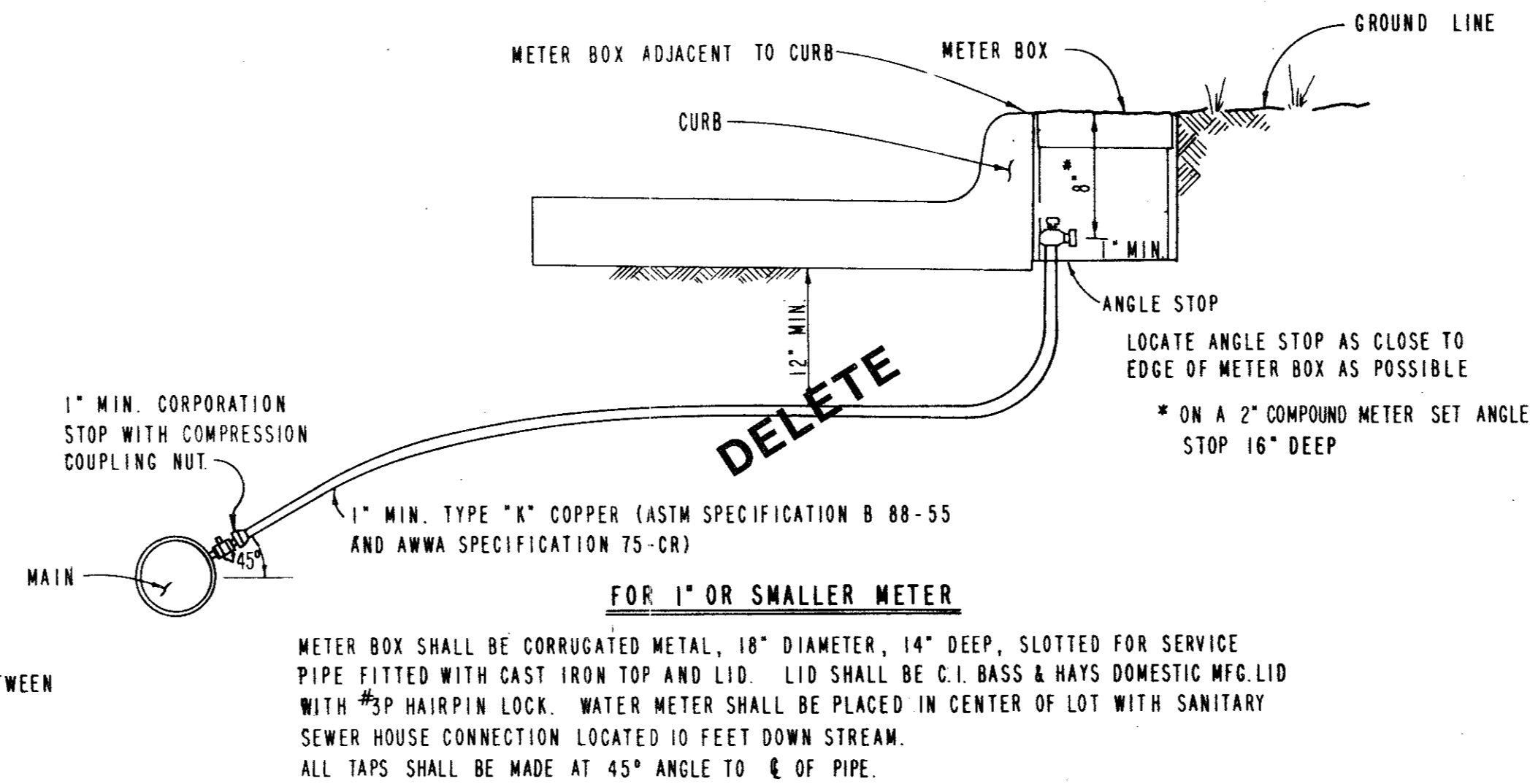
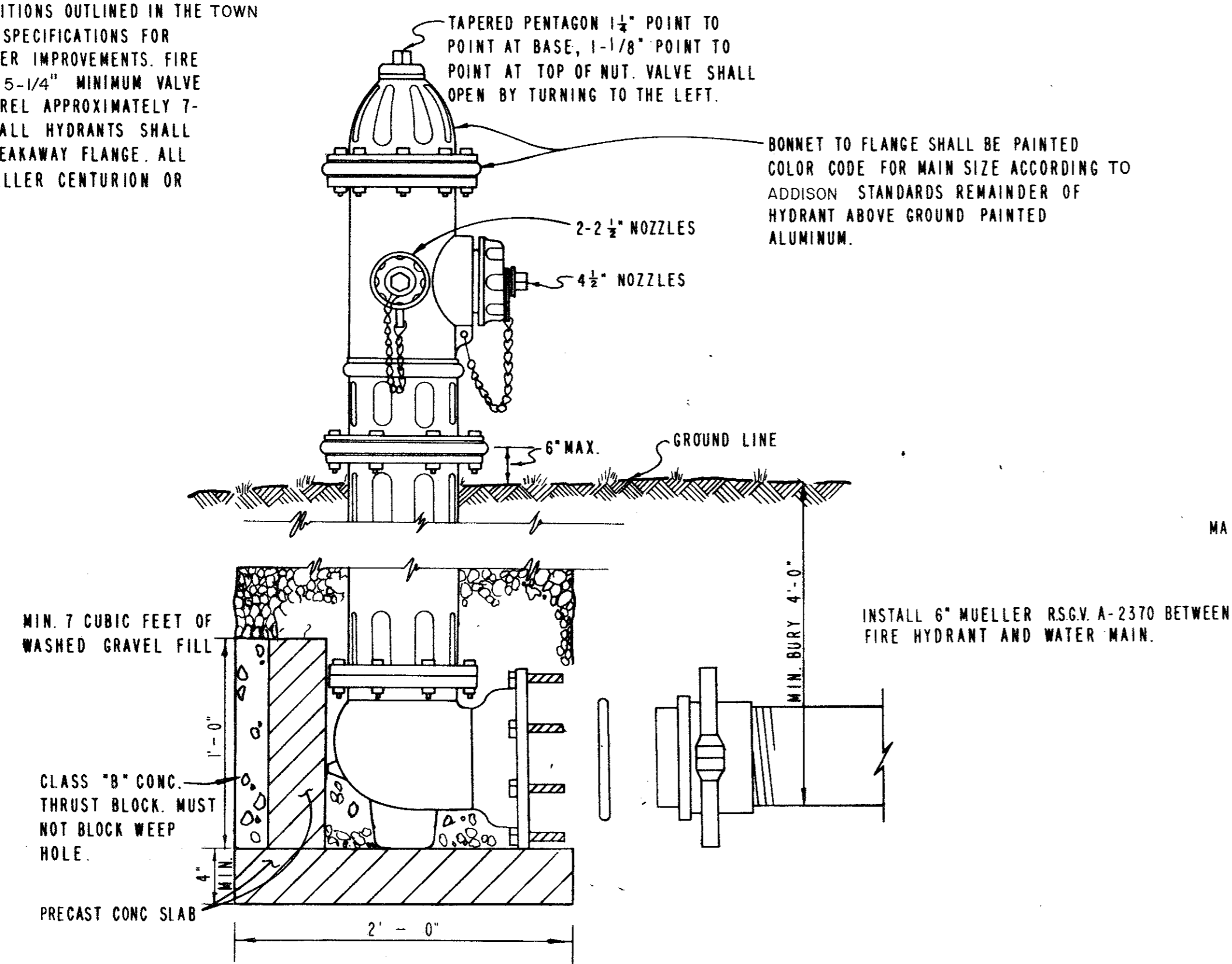


NOTE:

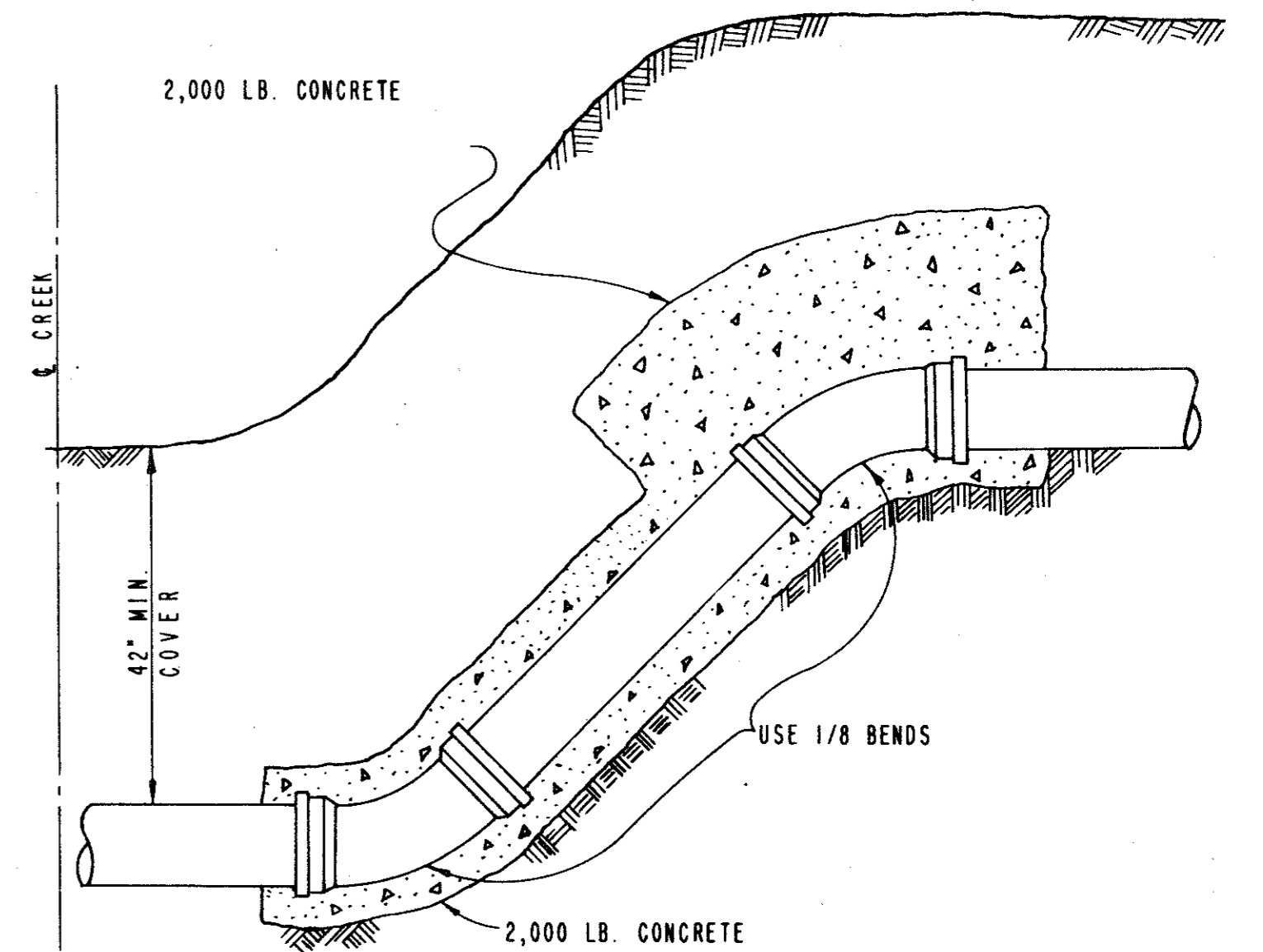
IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502-73. EXCEPT FOR CHANGES OR ADDITIONS OUTLINED IN THE TOWN OF ADDISON STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER IMPROVEMENTS. FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND WITH A BARREL APPROXIMATELY 7-INCH INSIDE DIAMETER. ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE. ALL HYDRANTS SHALL BE MUELLER CENTURION OR APPROVED EQUAL.



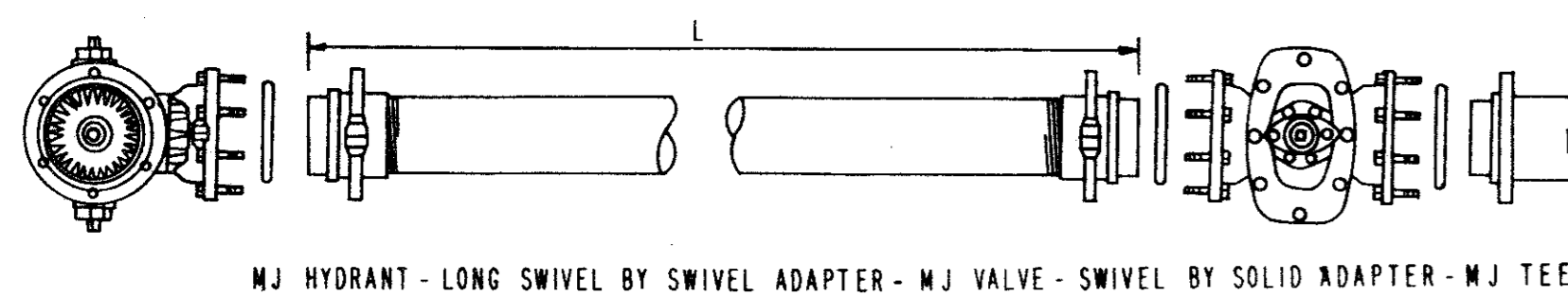
TYPICAL SERVICE CONNECTION WITH METER BOX

| MUELLER TYPE A COPPER SERVICE PIPE SOFT ANNEALED | DOUBLE STRAP BRONZE SERVICE SADDLE WITH C.C. THREADS | MUELLER CORPORATION STOP | MUELLER ANGLE STOP | BASS & HAYS SLOTTED METER BOX |
|--|--|--------------------------|--------------------|-------------------------------|
| 1 INCH | | H-15008 | H-14258 | 34 AS |
| 1 1/2 INCH | 1 1/2 INCH | H-15013 | H-14286 | 55 A |
| 2 INCH | 2 INCH | H-15013 | H-14286 | 55 A |

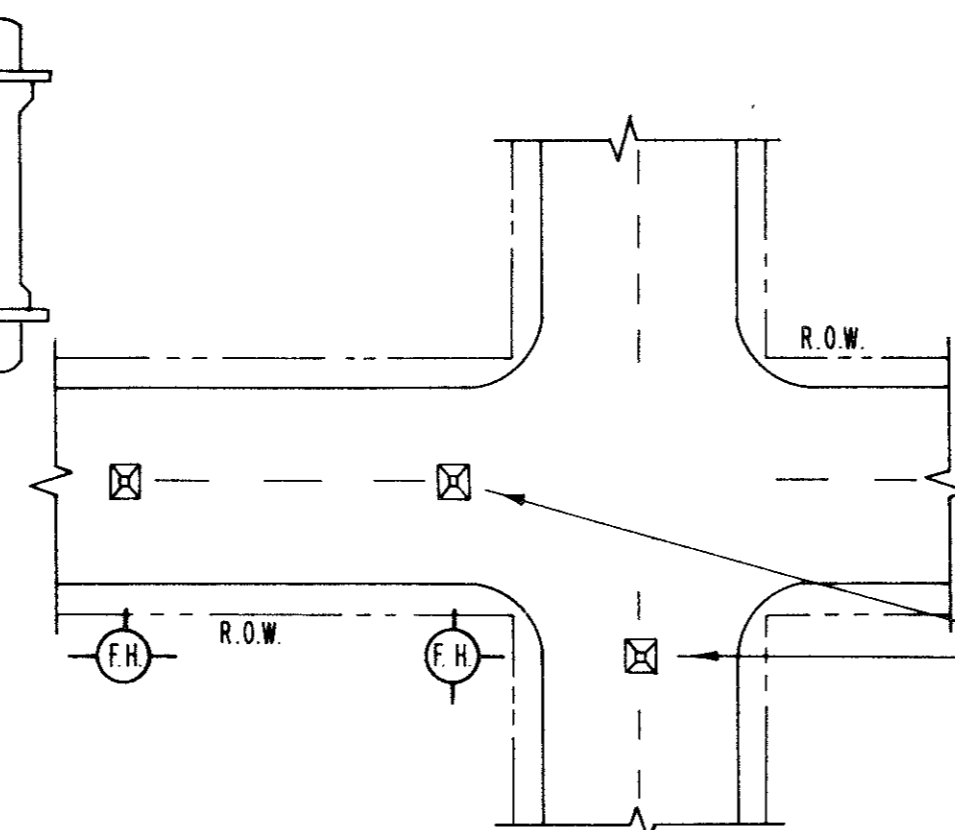
W/H 15428 COUPLING



HALF-SECTION TYPICAL CREEK CROSSING

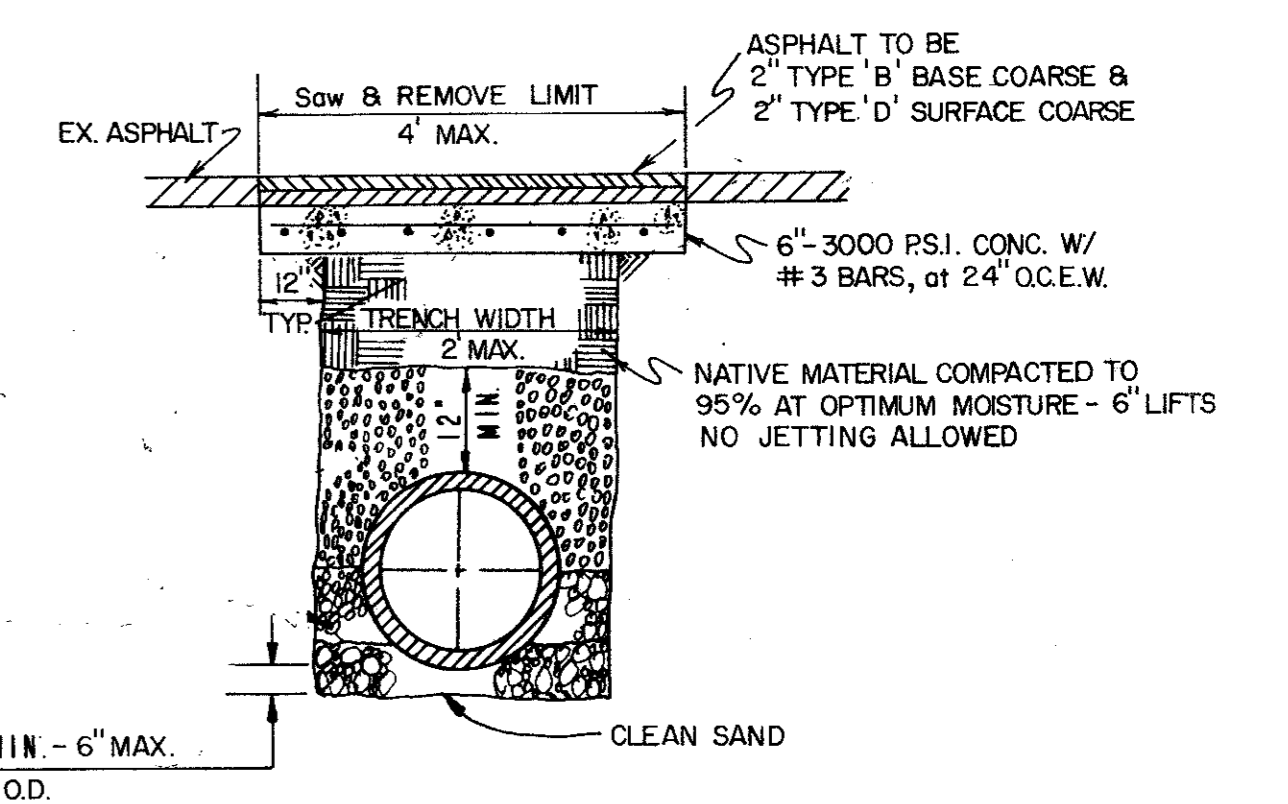
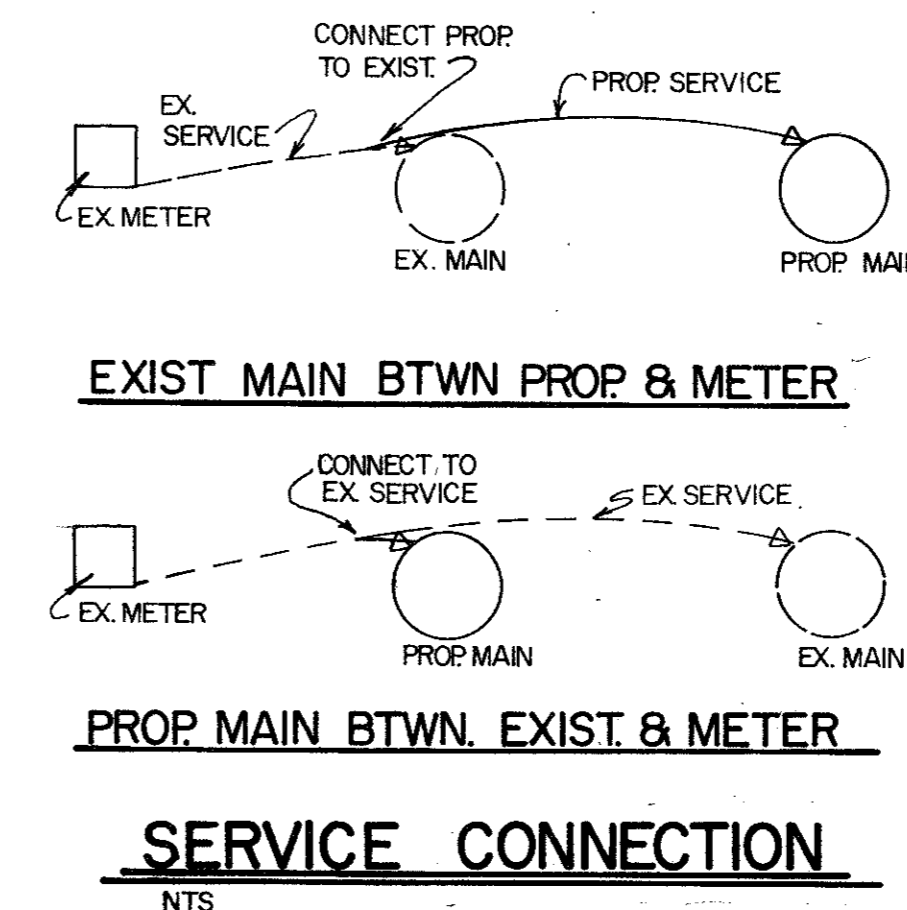


TYPICAL FIRE HYDRANT INSTALLATION



TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION (NO SCALE)

A BLUE STIMSONITE FIRE-LITE REFLECTOR (OR APPROVED EQUAL) TO BE PLACED IN THE CENTER OF STREET OPPOSITE FIRE HYDRANTS THE INSTALLATION OF THIS REFLECTOR SHALL BE AS PRESCRIBED BY THE MANUFACTURER.



TYPICAL BACKFILL WATER MAIN

| THRUST IN TONS FOR VERTICAL BENDS | | | | | | | | |
|-----------------------------------|--------|-------|--------|-------|-------|-------|-------|-------|
| I. D. IN INCHES | 11.25° | 15° | 22.50° | 30° | 45° | 60° | 75° | 90° |
| 12 | | | | | | | | |
| 14 | | | | | | | | |
| 16 | 2.94 | 3.90 | 5.78 | 7.54 | 10.66 | 13.06 | 14.56 | 15.08 |
| 18 | 3.72 | 4.94 | 7.30 | 9.54 | 13.50 | 16.52 | 18.42 | 19.08 |
| 20 | 4.60 | 6.10 | 9.02 | 11.78 | 16.66 | 20.40 | 22.76 | 23.56 |
| 24 | 6.62 | 8.78 | 12.98 | 16.96 | 23.98 | 29.38 | 32.76 | 33.92 |
| 30 | 10.34 | 13.72 | 20.28 | 26.52 | 37.50 | 45.92 | 51.22 | 53.02 |

GENERAL NOTES:

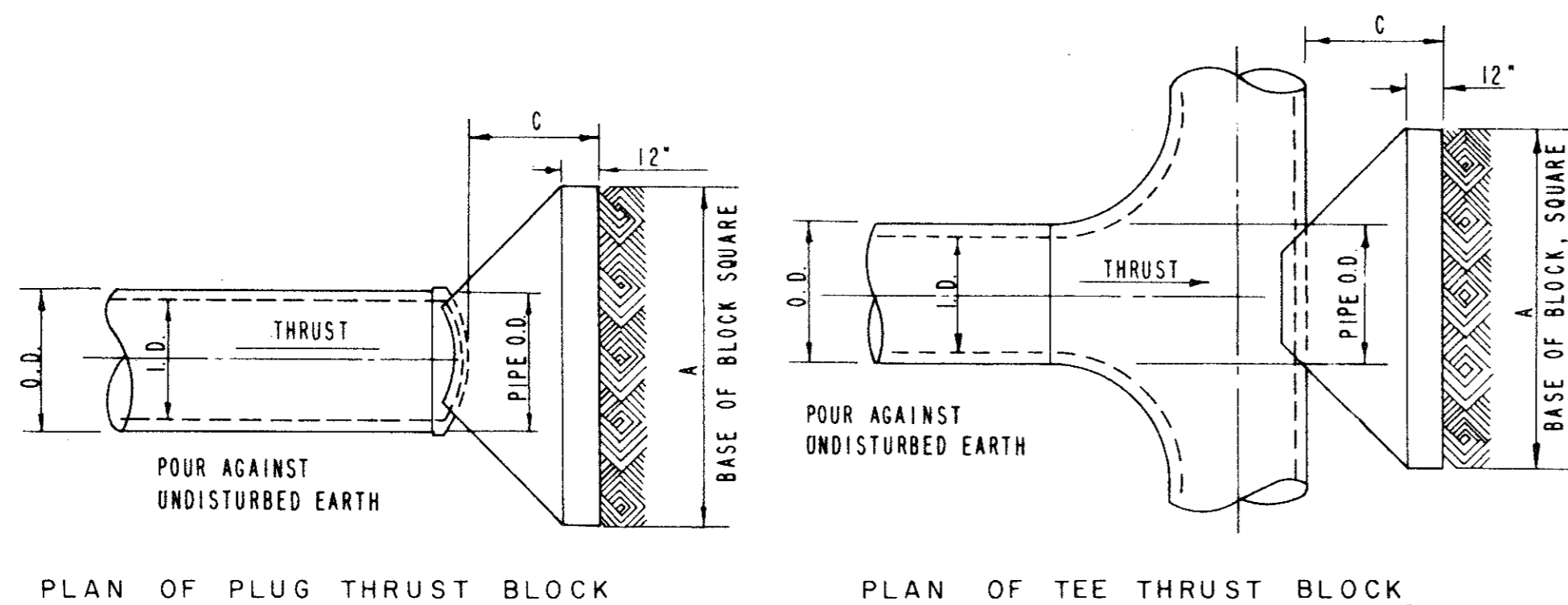
ALL CALCULATIONS ARE BASED ON TOTAL INTERNAL PRESSURE OF 150 P.S.I.

ALLOWABLE SOIL BEARING PRESSURES MUST BE AT LEAST ONE TON PER SQUARE FOOT FOR THE THRUST BLOCKS SHOWN. IN SOILS OF LESSER CAPACITY, INCREASE SIZE AND BEARING AREA PROPORTIONATELY. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED, AND THE CORRESPONDING WEIGHT OF THE CONCRETE (AT 4,000#/C.Y.) EQUALS THE VERTICAL COMPONENT OF THRUST ON THE VERTICAL BEND ALL BEARING SURFACES OF THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.

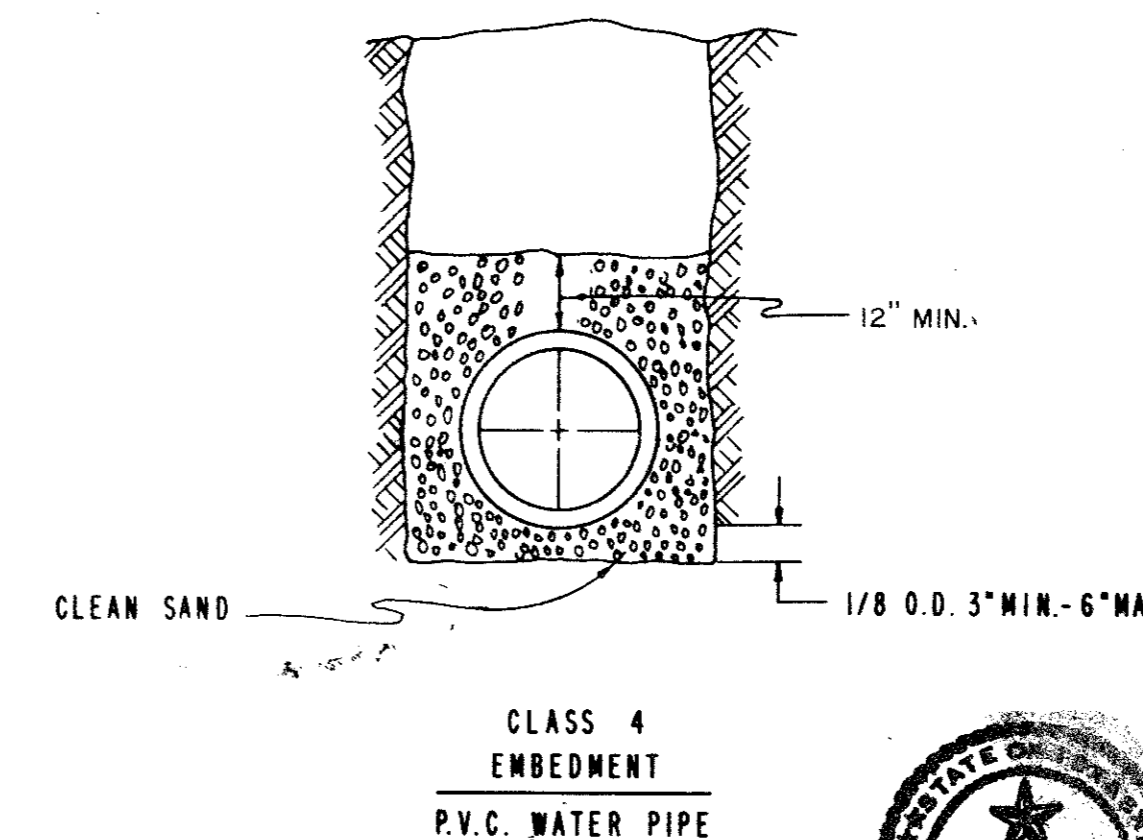
CONCRETE FOR BLOCKING SHALL BE 2,000 CONCRETE.

DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER, BUT SHALL NOT BE LESS THAN THE DIMENSIONS SHOWN HERE.

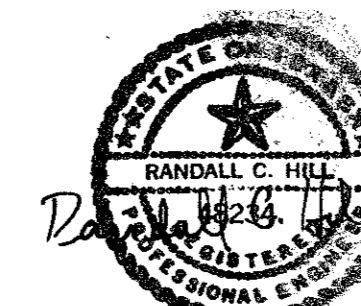
| TEES & PLUGS | | | |
|--------------|-------|-------|-------------|
| I. D. UNIT | A FT. | C FT. | THRUST TONS |
| 12" | | | |
| 14" | | | |
| 16" | 3.87 | 1.57 | 15.08 |
| 18" | 4.37 | 1.77 | 19.09 |
| 20" | 4.86 | 1.97 | 23.56 |
| 24" | 5.82 | 2.36 | 33.93 |
| 30" | 7.28 | 2.95 | 53.01 |



TYPICAL PLUG & TEE THRUST BLOCKS



CLASS 4 EMBEDMENT P.V.C. WATER PIPE



5/27/88

RECORD DRAWING

| NO. | REVISION | BY | DATE |
|---|----------|---------------------|------|
| TOWN OF ADDISON, TEXAS DEPARTMENT OF ENGINEERING | | | |
| STANDARD CONSTRUCTION DETAILS WATER | | | |
| FIRE HYDRANT - SERVICE CONNECTION | | | |
| APPROVED _____ | | H. WAYNE GINN, P.E. | |
| DATE: MARCH, 1984 | | SHEET SD-16 | |