IN GENERAL, ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE. C-502-73.EX-CEPT 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.

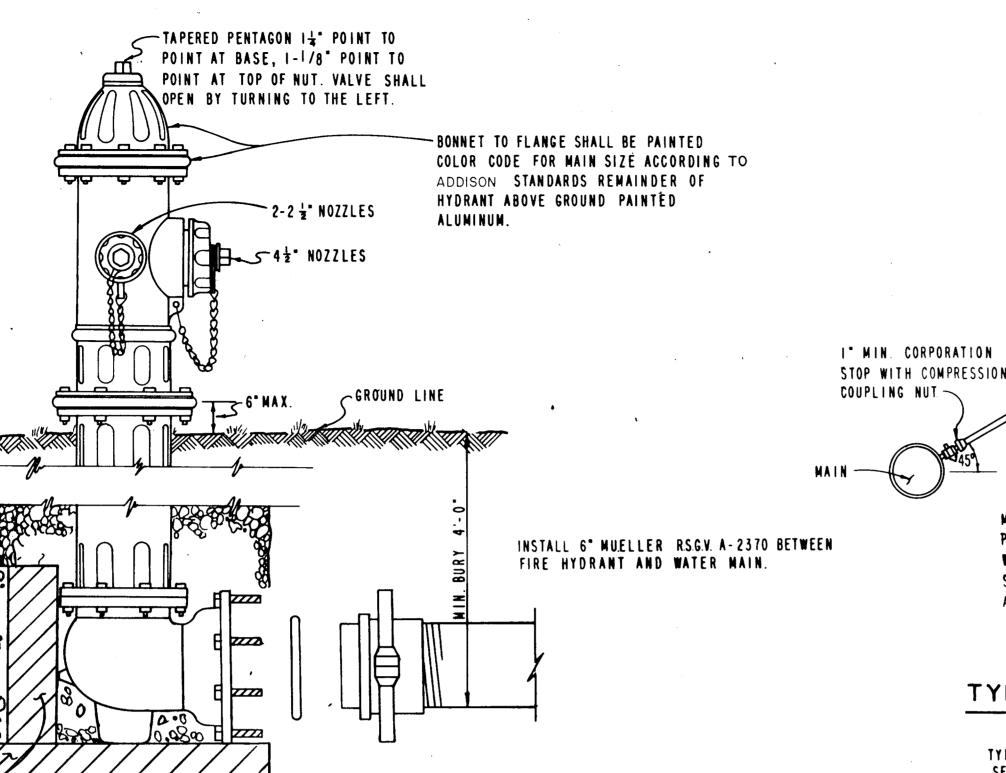
MIN. 7 CUBIC FEET OF

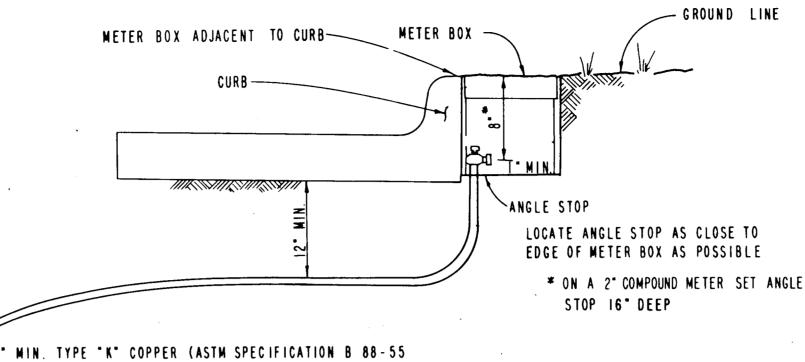
CLASS "B" CONC.-

PRECAST CONC SLAB

THRUST BLOCK, MUST NOT BLOCK WEEP

WASHED GRAVEL FILL T





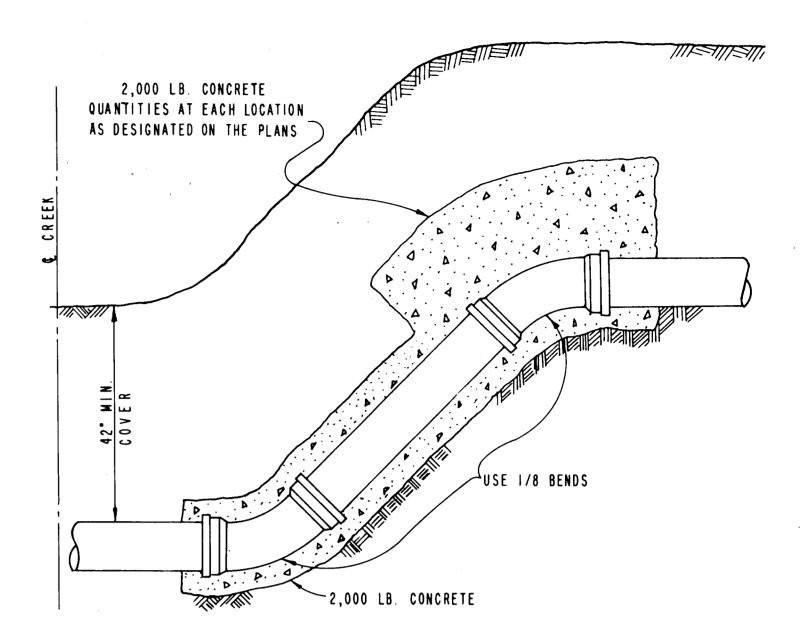
AND AWWA SPECIFICATION 75-CR)

METER BOX SHALL BE CORRUGATED METAL, 18" DIAMETER, 14" DEEP, SLOTTED FOR SERVICE PIPE FITTED WITH CAST IRON TOP AND LID. LID SHALL BE C.I. BASS & HAYS DOMESTIC MFG.LID WITH #3P HAIRPIN LOCK. WATER METER SHALL BE PLACED IN CENTER OF LOT WITH SANITARY SEWER HOUSE CONNECTION LOCATED TO FEET DOWN STREAM. ALL TAPS SHALL BE MADE AT 45° ANGLE TO & OF PIPE.

FOR 1" OR SMALLER METER

TYPICAL SERVICE CONNECTION WITH METER BOX

MUELLER TYPE & 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
I INCH I≢ INCH	1 j inch	H - 15008 H - 15013	H-14258 H-14286 👡	34 AS 55 A
2 INCH	2 IN CH	H-15013	H-14286	55 A ~W/H 15428 CO



HALF-SECTION TYPICAL CREEK CROSSING

MJ HYDRANT - LONG SWIVEL BY SWIVEL ADAPTER - MJ VALVE - SWIVEL BY SOLID ADAPTER - MJ TEE

TYPICAL FIRE HYDRANT INSTALLATION

THRUST IN TONS FOR VERTICAL BENDS								
I. D.	Δ							
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

•••	-FH)-
	,
90 •	

POUR AGAINST

UNDISTURBED EARTH

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 FIRE HYDRANT REFLECTOR INSTALLATION (NO SCALE)

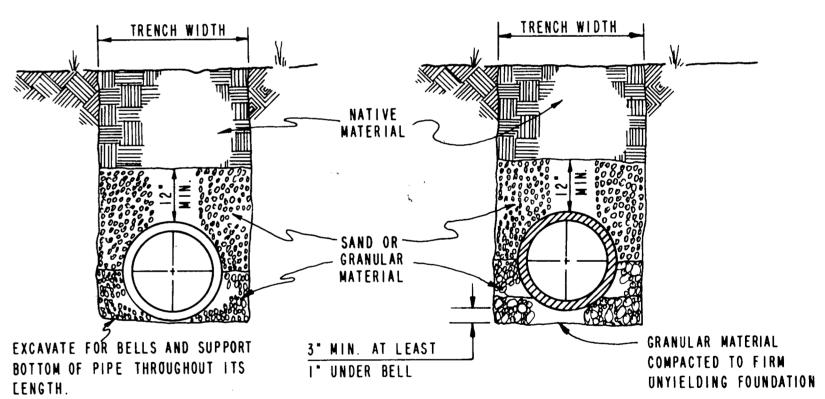
GENERAL NOTES:

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

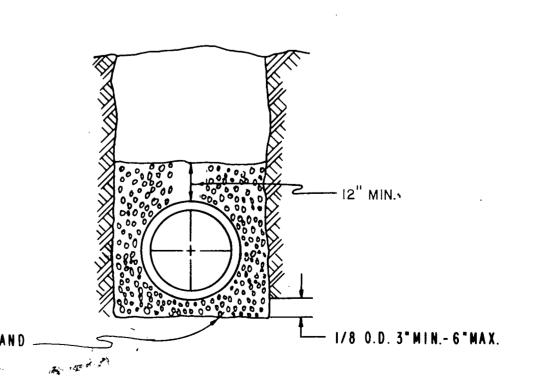
ALLOWABLE SOIL BEARING PRESSURES MUST BE AT LEAST ONE TON PER SQUARE FOOT FOR THE THRUST BLOCKS SHOWN. IN SOILS OF LESSER CAPACITY, INCREASE SIZE AND BEARING AREA PROPORTIONATELY. VOLUMES OF VERTICAL BEND THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. AND THE CORRESPONDING WEIGHT OF THE CONCRETE (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.

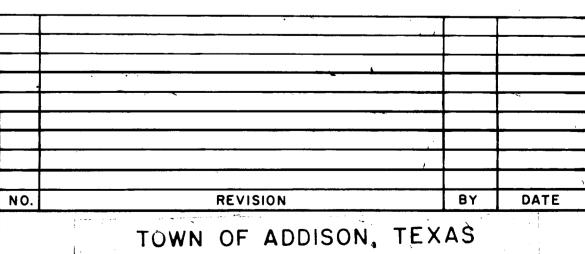
DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDI-TIONS WHERE AND AS DIRECTED BY THE ENGINEER. BUT SHALL NOT BE LESS THAN THE DIMENSIONS SHOWN HERE.



(C.I.OR D.I. PIPE) (C.1.OR D.1. PIPE) TYPICAL BACKFILL WATER MAIN



CLASS 4 EMBEDMENT P.V.C. WATER PIPE



DEPARTMENT OF ENGINEERING

STANDARD CONSTRUCTION DETAILS WATER

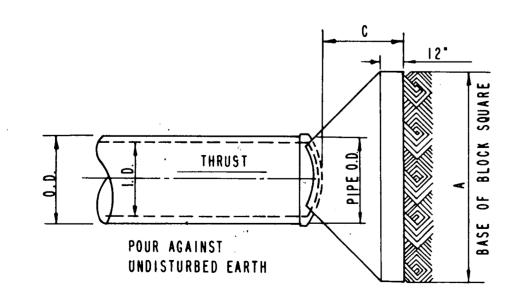
FIRE HYDRANT - SERVICE CONNECTION

APPROVED ---H. WAYNE GINN, P.E. SHEET SD-16 DATE: MARCH, 1984

TEES & PLUGS C THRUST UNIT FT. FT. TONS 12" 16" 3.87 1.57 15.08 4.37 1.77 19.09 4.86 1.97 23.56

24" 5.82 2.36 33.93

7.28 2.95 53.01



PLAN OF PLUG THRUST BLOCK

PLAN OF TEE THRUST BLOCK

TYPICAL PLUG & TEE THRUST BLOCKS

