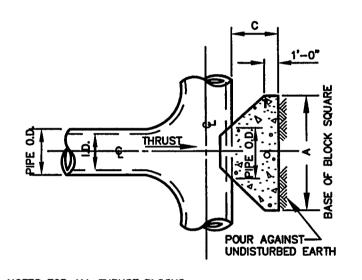


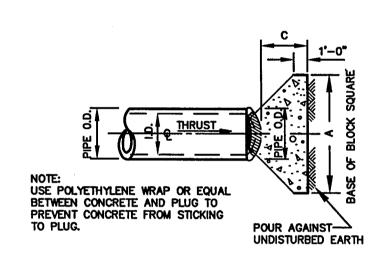
HORIZONTAL THRUST BLOCK

SECTION X-X

			△=11.25°				△=22.50°				△=45*			△= 90°				
1.D. (IN)	c F:	E FT.	GF.	A FT.	B FT.	VOL. C.Y.	GF.	A FT.	B FT.	VOL. C.Y.	GF.	A FT.	B FT.	VOL. C.Y.	G FT.	A FT.	B FT.	VOL. C.Y.
6/8	1.5	0.9	0.4	1.0	1.5	0.1	0.8	1.5	1.5	0.1	1.5	2.0	2.0	0.2	2.7	5.0	1.5	0.4



PLUG & TEE THRUST BLOCK							
I.D. (IN)	C FT.	A FT.	VOL. C.Y.				
6/8	1.5	2.5	0.3				
10/12	1.5	3.5	0.6				
16/18	2.0	5.5	1.6				
20	2.0	6.0	1.9				
24	2.5	7.0	3.1				
30	3.0	7.5	4.1				

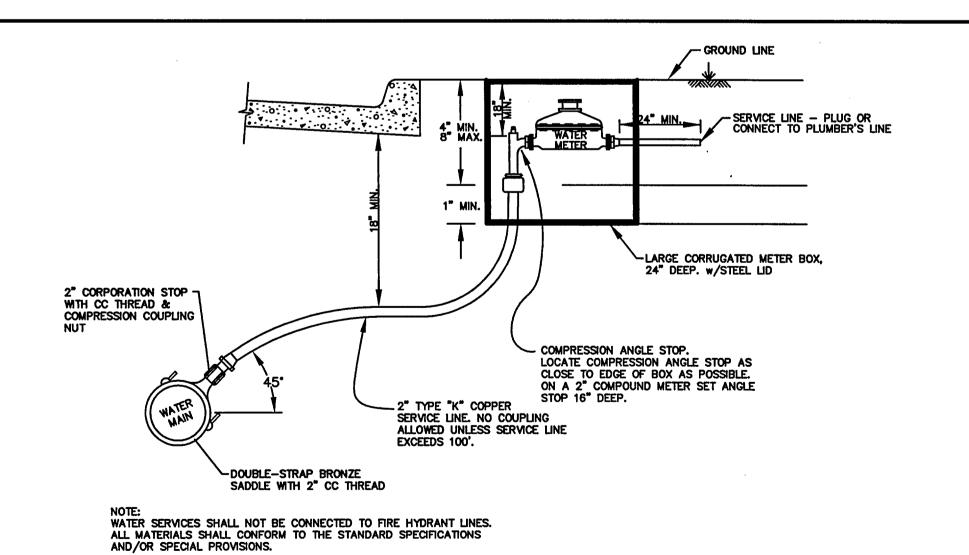


GENERAL NOTES FOR ALL THRUST BLOCKS:

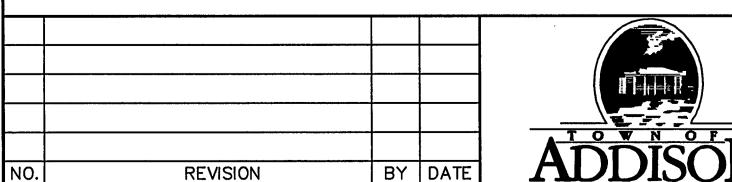
- ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 P.S.I.
- 2. CONCRETE FOR BLOCKING SHALL BE CLASS B, 2000 P.S.I. CONCRETE.
- 3. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE C.M. THE NET VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN IN TABLES.

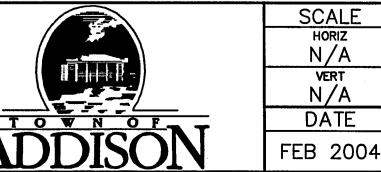
PLAN OF TEE THRUST BLOCK

PLAN OF PLUG THRUST BLOCK



TYPICAL SERVICE CONNECTION WITH METER BOX







1100 Macon Street

45° BEND WITH RETAINER GLANDS & MEGA-LUG RESTRAINT AS REQUIRED.

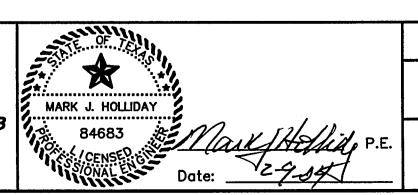
PROPOSED 8"
WATERLINE

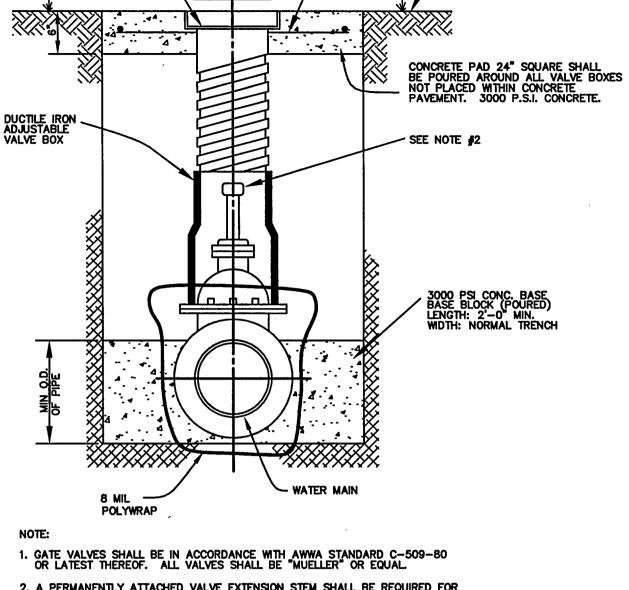
(EBAA 2000 PV SERIES OR EQUAL) ---

45° BEND WITH RETAINER GLANDS & MEGA-LUG RESTRAINT AS REQUIRED. (EBAA 2000 PV SERIES OR EQUAL) ──

ENGINEERS + SURVEYORS + CONSULTANTS

Fort Worth, Texas 76102 Denton, Texas 76201 (817) 336-5773 (940) 383-4177 (214) 461-9867 MARK J. HOLLIDAY



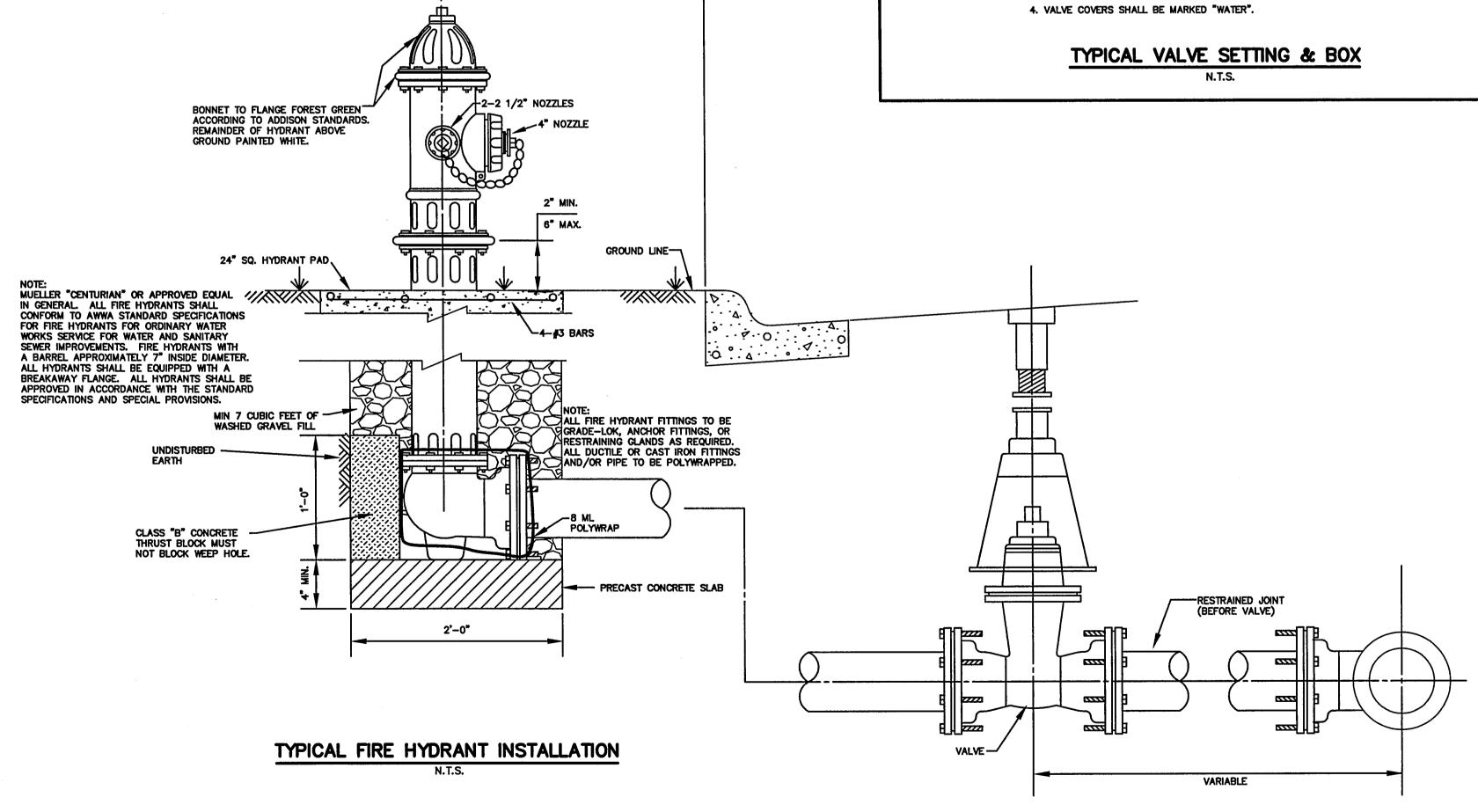


TOP OF EXISTING PAVEMENT, SOIL OR PROP. PAVEMENT

2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FEET BELOW THE VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4 FEET OF VALVE BOX LID. MANUFACTURED VALVE STACK DUCTILE IRON PIPE TO BE USED FOR EXTENSION GREATER THAN 4'. BELL END OF STACK TO BE FITTED OVER VALVE, AND VALVE STACK IS TO BE POLYWRAPPED.

3. VALVES SHALL BE OF DUCTILE IRON W/RUBBER ENCAPSULATED DISK. BOLTS SHALL BE STAINLESS STEEL OF SAME SIZE ON EACH VALVE.

INSTALL DIRT PAN



- 45° BEND WITH RETAINER GLANDS & MEGA-LUG RESTRAINT AS REQUIRED. (EBAA 2000 PV SERIES OR EQUAL)

45° BEND WITH RETAINER GLANDS & MEGA-LUG RESTRAINT AS REQUIRED. (EBAA 2000 PV SERIES OR EQUAL)

MIN. 2.0' B.C. MAX. 4.0' B.C.

WATER LINE RELOCATION AT STORM SEWER CROSSING TYPICAL SECTION

TEAGUE NALL AND PERKINS

235 W. Hickory Street #100 12160 N. Abrams Road #508 Dallas, Texas 75243

TOWN OF ADDISON, TEXAS TALISKER APARTMENTS

WATER LINE IMPROVEMENTS MISCELLANEOUS DETAILS 1

SHEET OF

TNP PROJECT

ADD03169