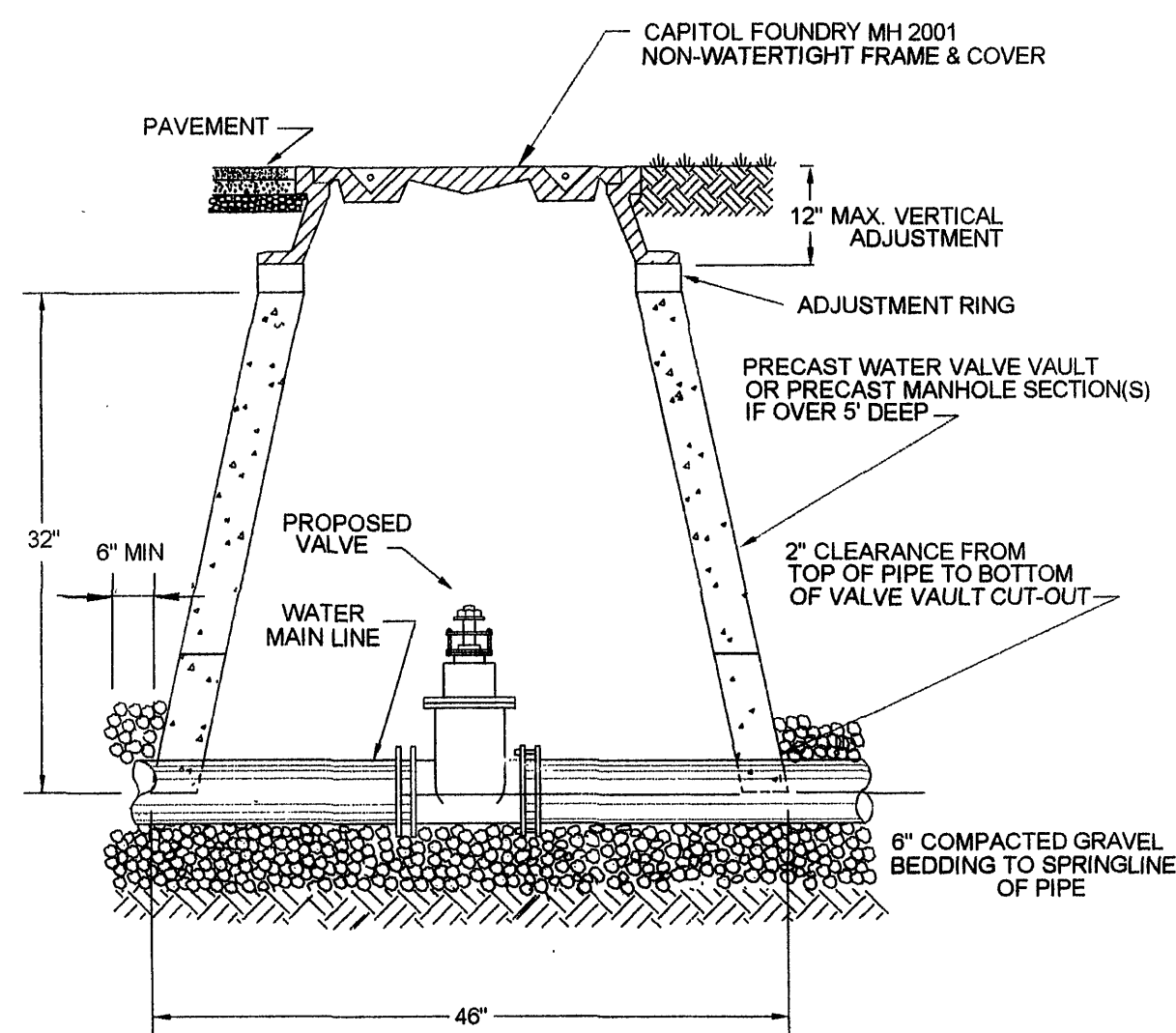
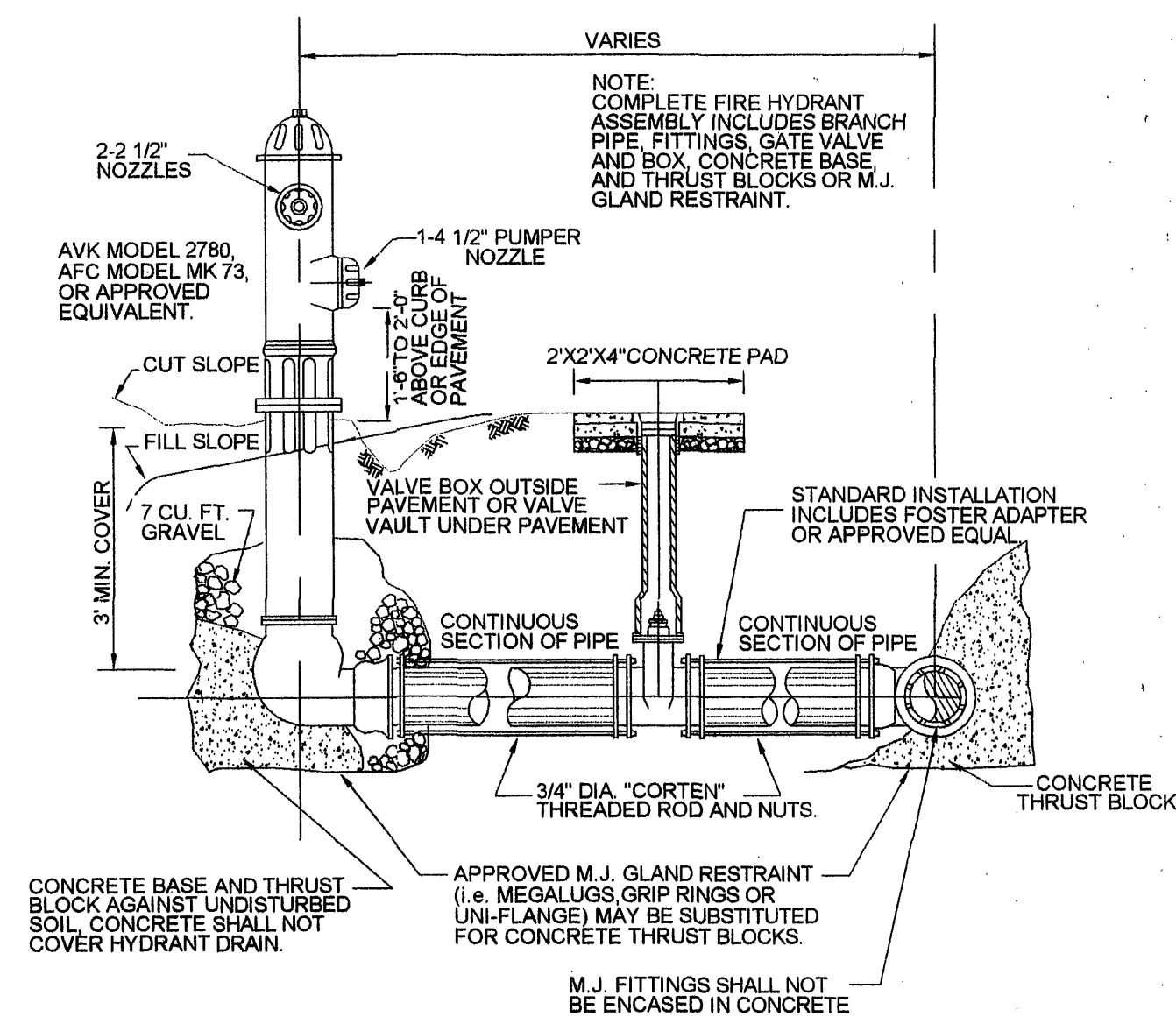


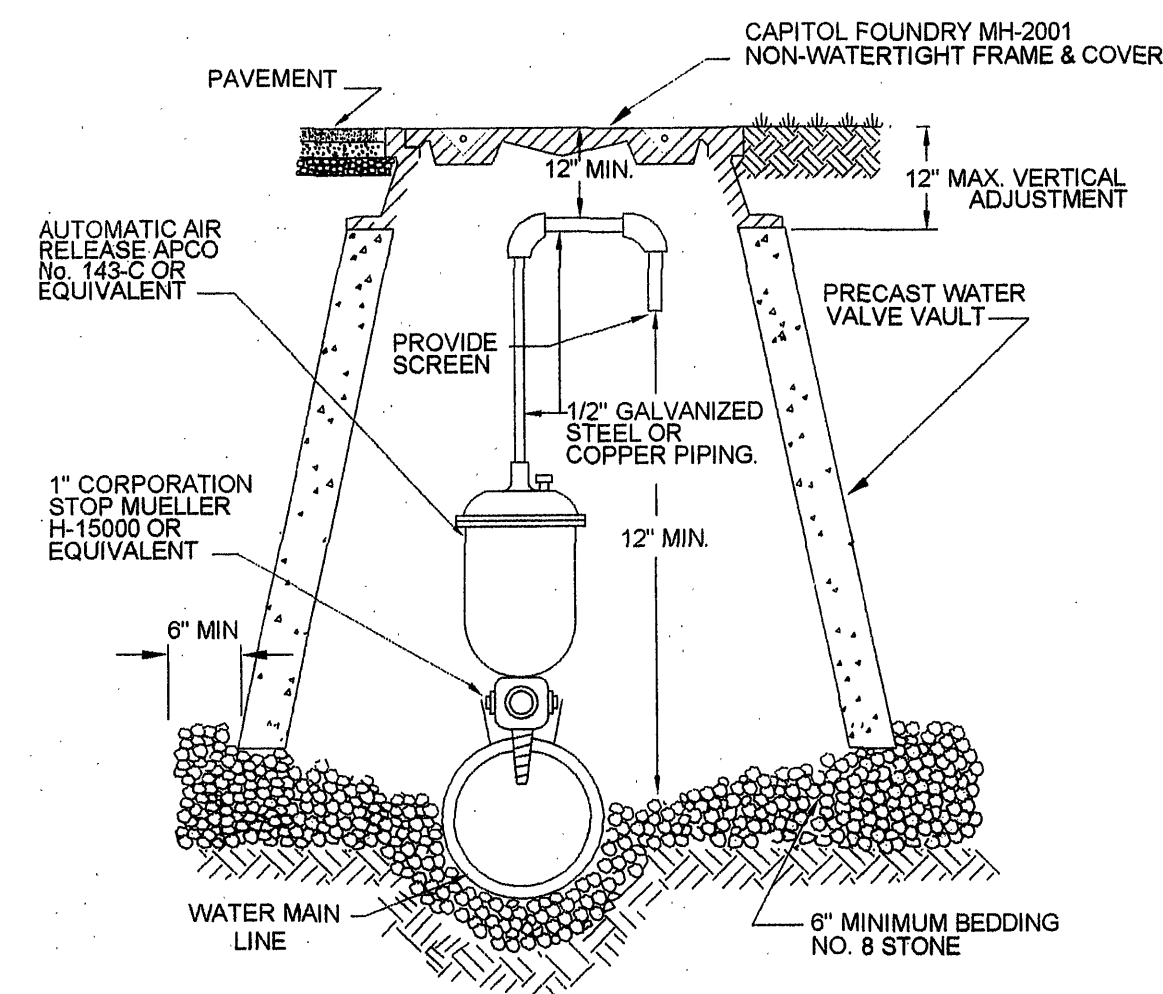


WATER LINE VALVE
INSTALLATION
NOT TO SCALE

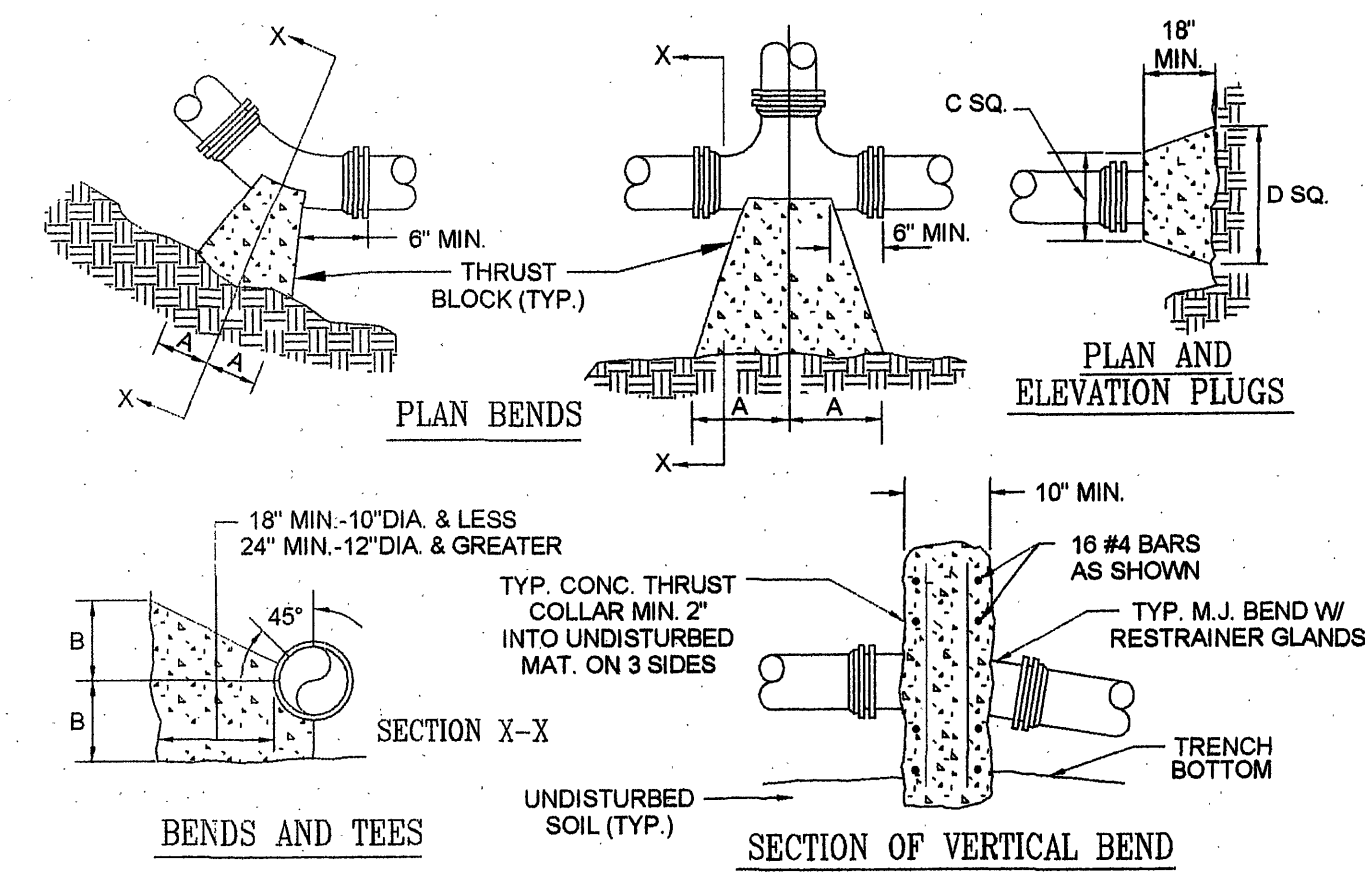
- NOTES:
1. MAIN BODY OF HYDRANT MUST BE PAINTED SILVER WITH RED REFLECTIVE CAPS AND BONNET.
 2. FIRE HYDRANT SHALL BE INSTALLED 2' MIN. AND 4' MAX. FROM BACK OF CURB OR 6' MIN. AND 12' MAX. WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT LINE.
 3. AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSTRUCTED.
 4. WATERPROOF BAGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
 5. HIGH PRESSURE (OVER 120 PSI) REQUIRES THE USE ALL 3 RESTRAINTS.



FIRE HYDRANT
ASSEMBLY
NOT TO SCALE



AUTOMATIC AIR
RELEASE ASSEMBLY
NOT TO SCALE

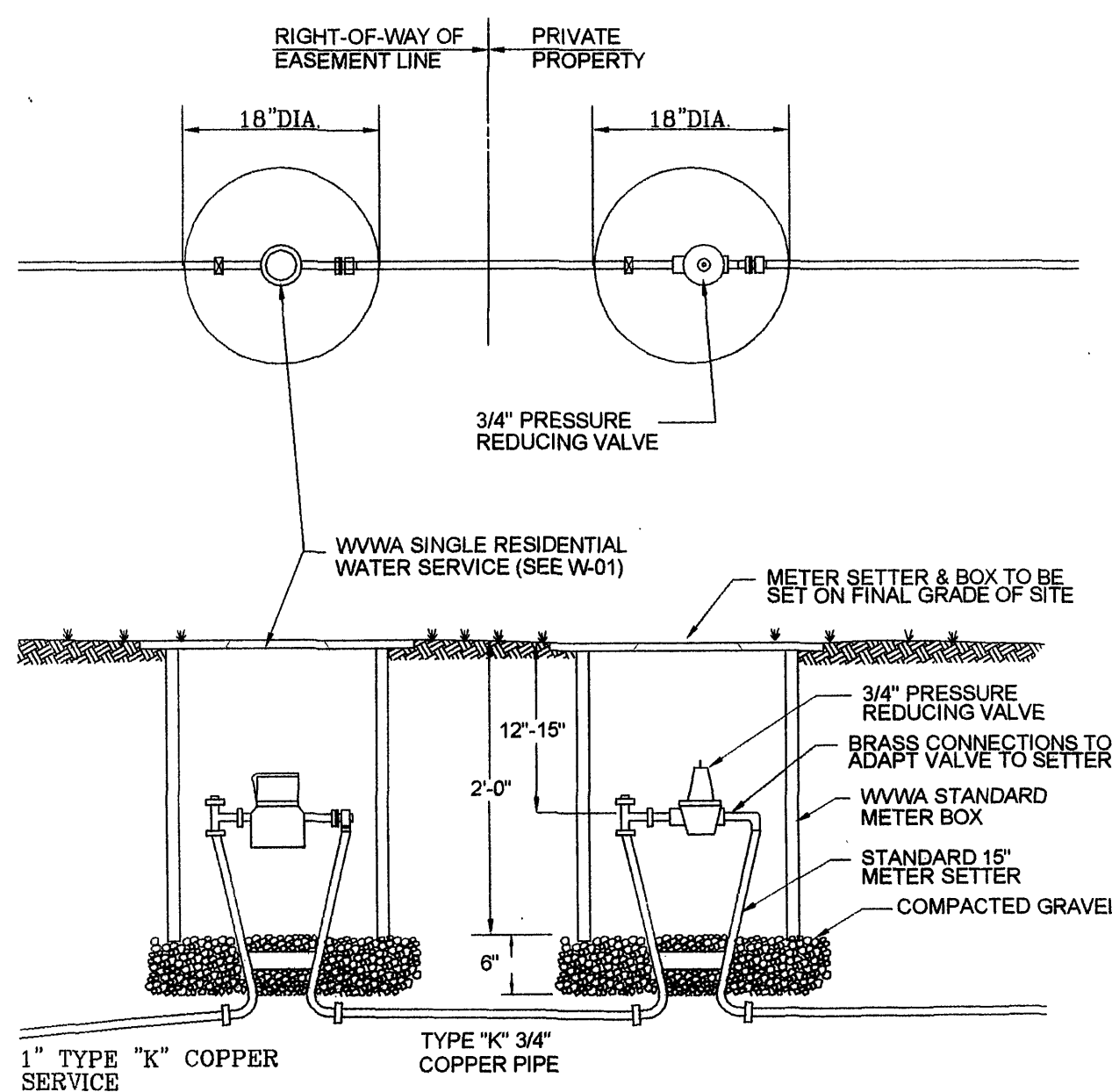


BENDS AND TEES

- NOTES:
1. FOR VERT. BEND DOWN IN EXCESS OF 11 1/4\" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
 2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
 3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.
 4. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
 5. THRUST BLOCKS WITH \"B\" DIMENSION GREATER THAN 30\" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4\" OF COVER.
- PRESSURE = 200 psi
BEARING = 2000 psf
FACTOR OF SAFETY = 1.5

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE	PLUG
4"	8"	12"	8"	8"	8"	8"
6"	12"	18"	12"	12"	12"	12"
8"	18"	24"	18"	18"	18"	18"
10"	24"	30"	24"	24"	24"	24"
12"	30"	36"	30"	30"	30"	30"
14"	36"	42"	36"	36"	36"	36"
16"	42"	48"	42"	42"	42"	42"
18"	48"	54"	48"	48"	48"	48"
20"	54"	60"	54"	54"	54"	54"
22"	60"	66"	60"	60"	60"	60"
24"	66"	72"	66"	66"	66"	66"
26"	72"	78"	72"	72"	72"	72"
28"	78"	84"	78"	78"	78"	78"
30"	84"	90"	84"	84"	84"	84"

THRUST BLOCK
CONSTRUCTION
NOT TO SCALE

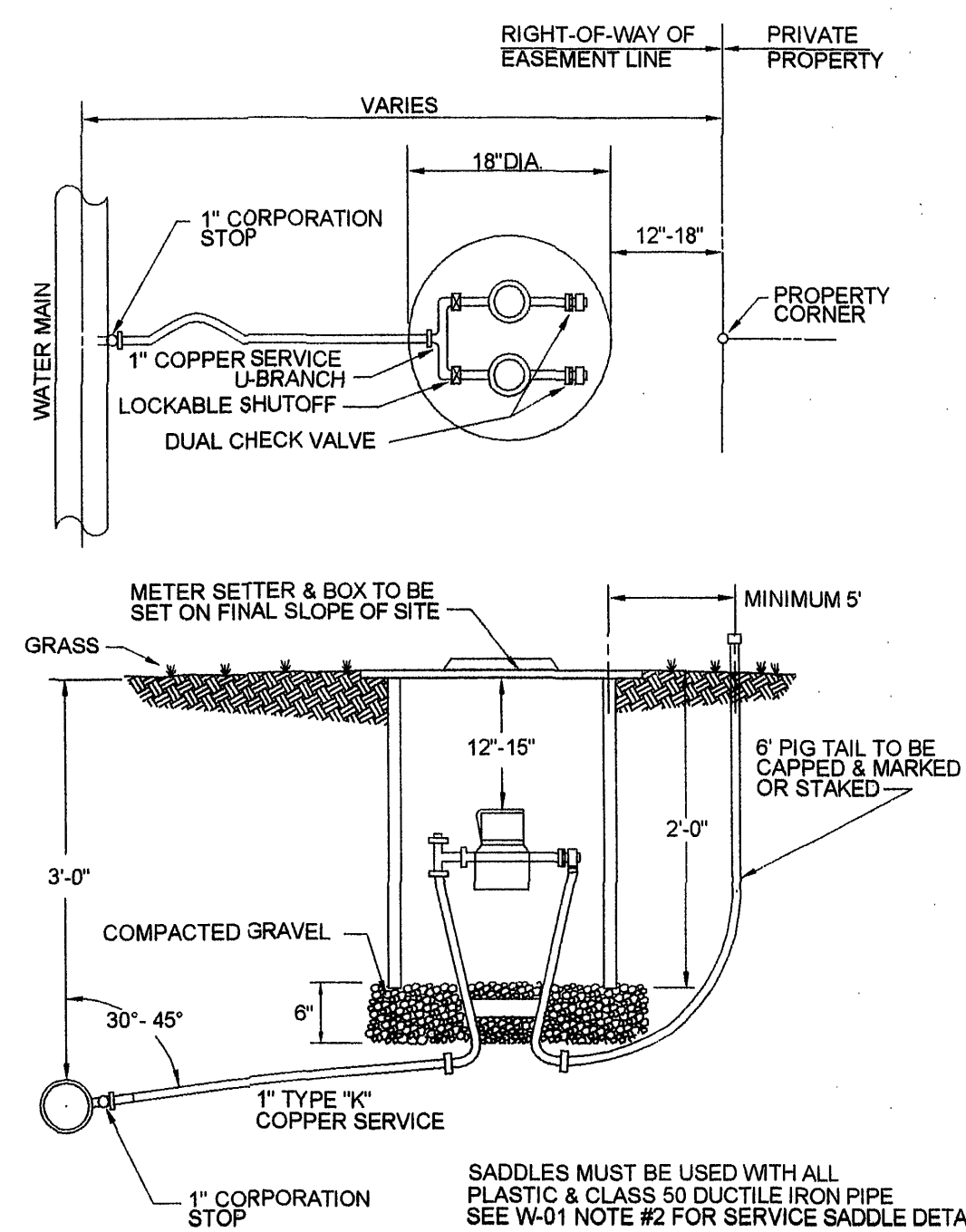


SEE W-01 NOTE #2 FOR SERVICE SADDLE DETAILS.

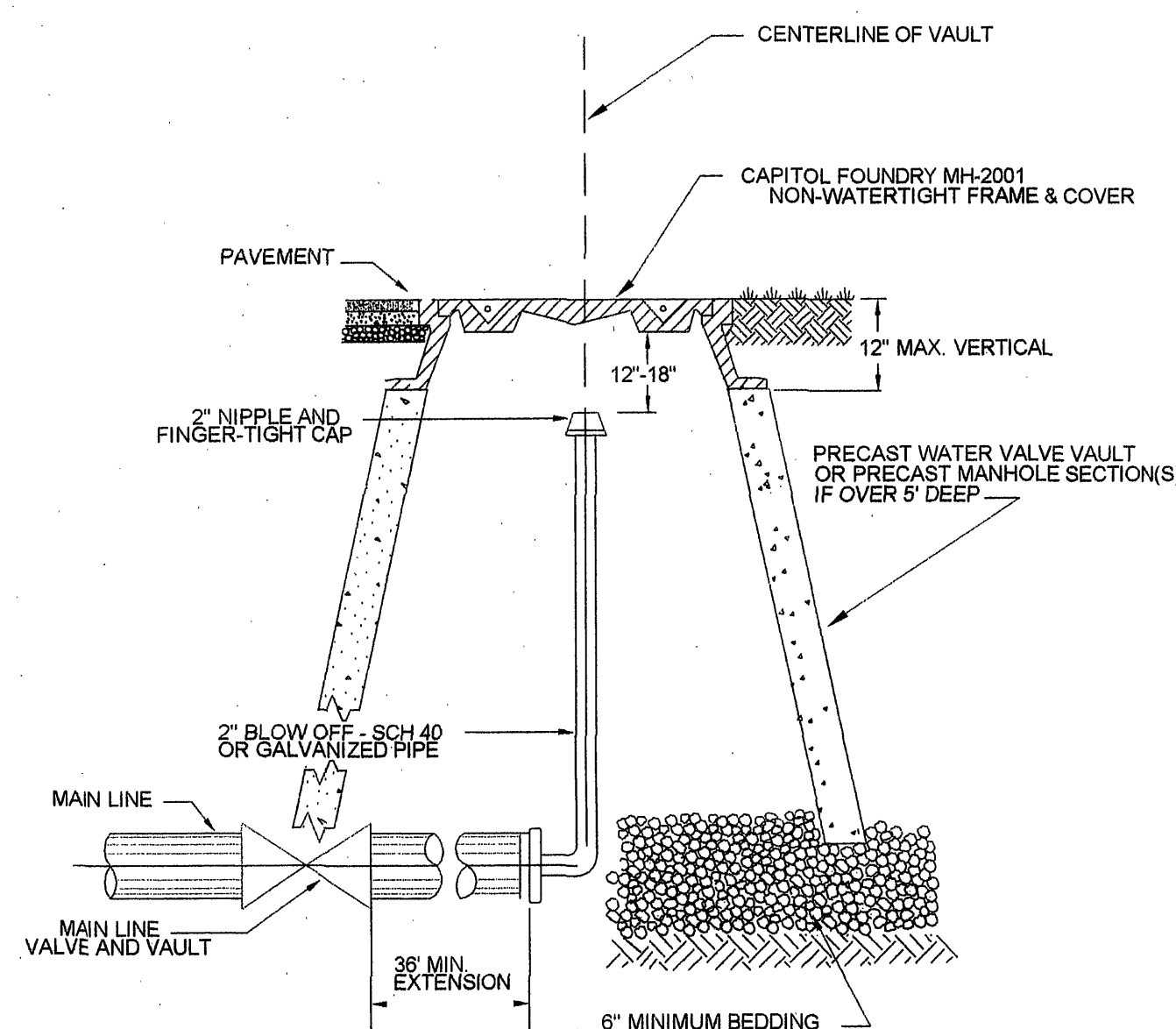
1. THIS CONFIGURATION REQUIRED WHEN WATER PRESSURE AT THE WATER MAIN IS BETWEEN 80 AND 120 PSI.

TYPE "B"
SINGLE RESIDENTIAL
WATER SERVICE
(LINE PRESSURE UNDER 80 TO 120 PSI)

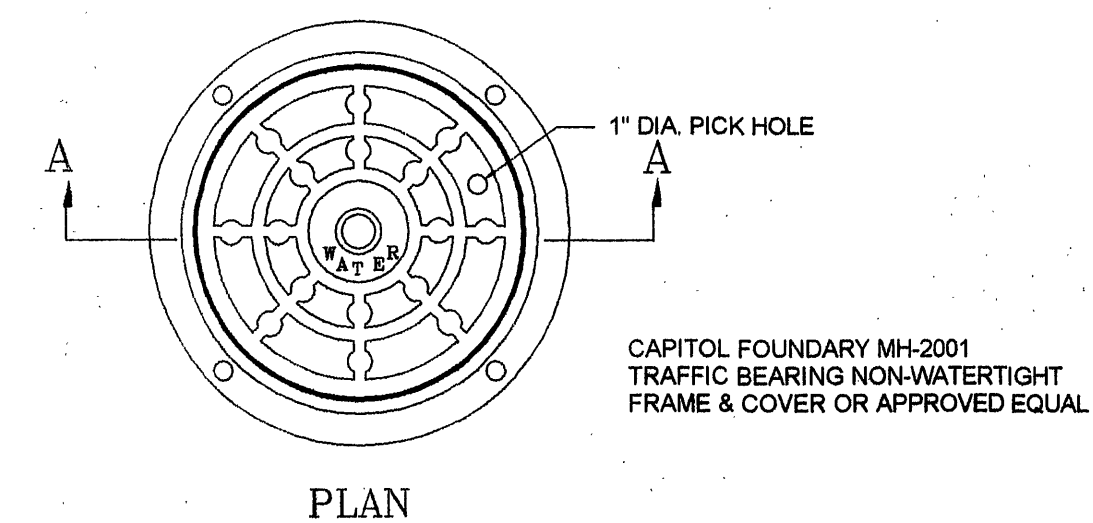
1. SETTER TO BE A.Y. McDONALD #20-315 WOLL33, FORD V8H472-15W-1133 OR APPROVED EQUAL.
2. METER BOX MUST BE MID-STATES PLASTICS, INC. PLASTIC BOX WITH FORD A52-1 (ELECTRONIC READ LID) OR A.Y. McDONALD MODEL 74M32C-TC CAST IRON BASE & COVER OR APPROVED EQUAL.
3. CORPORATION STOP MUST BE FORD F1000-4-6 OR APPROVED EQUAL.



DOUBLE RESIDENTIAL
WATER SERVICE
NOT TO SCALE



BLOW-OFF ASSEMBLY
FOR MAIN LINE
TEMPORARY TERMINATION
NOT TO SCALE



MANHOLE FRAME
AND COVER
NOT TO SCALE

NO.	DATE	REVISIONS	DESCRIPTION
1			
2			
3			
4			
5			

DATE: October 10, 2005

SCALE: NO SCALE

COMMISSION NO: 02-244