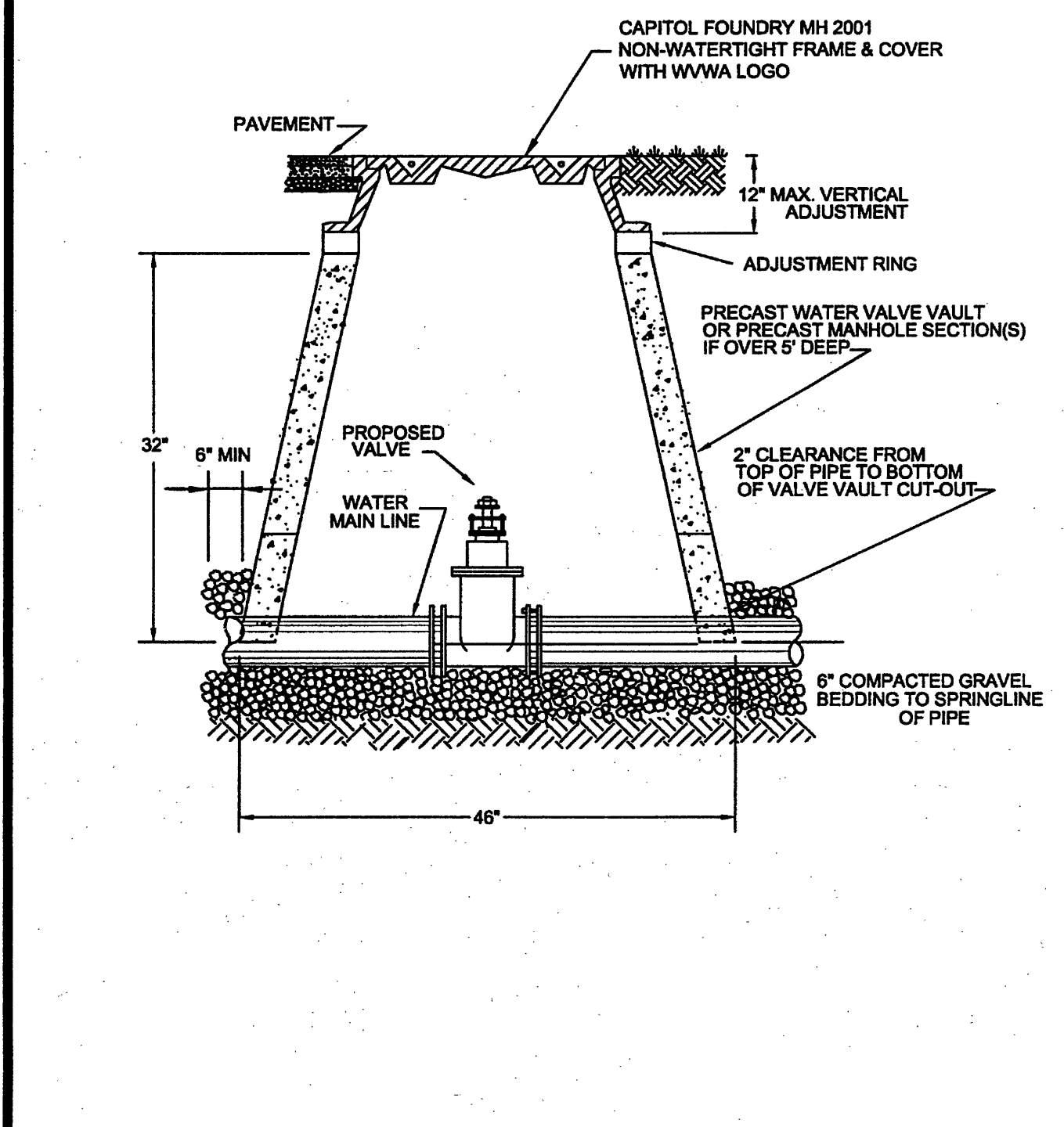
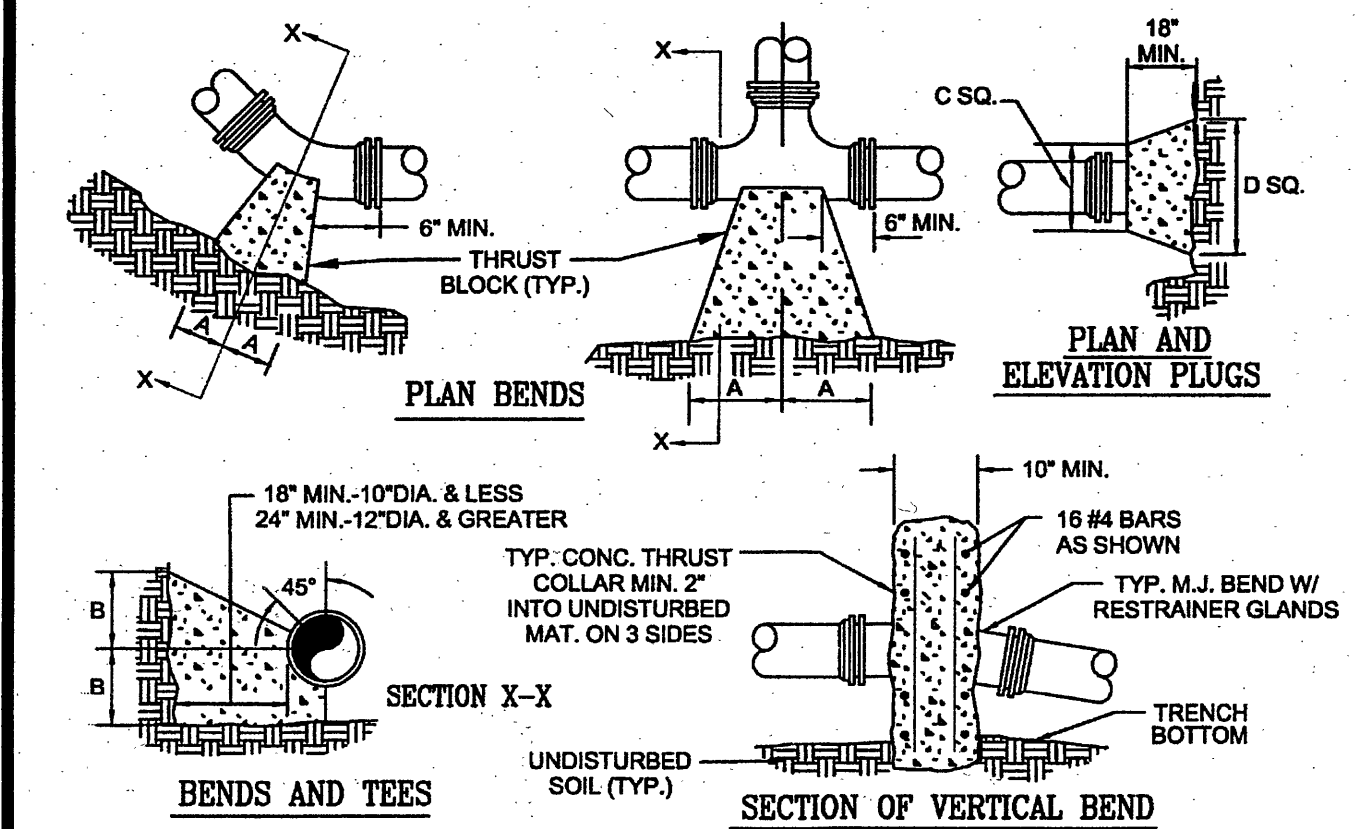


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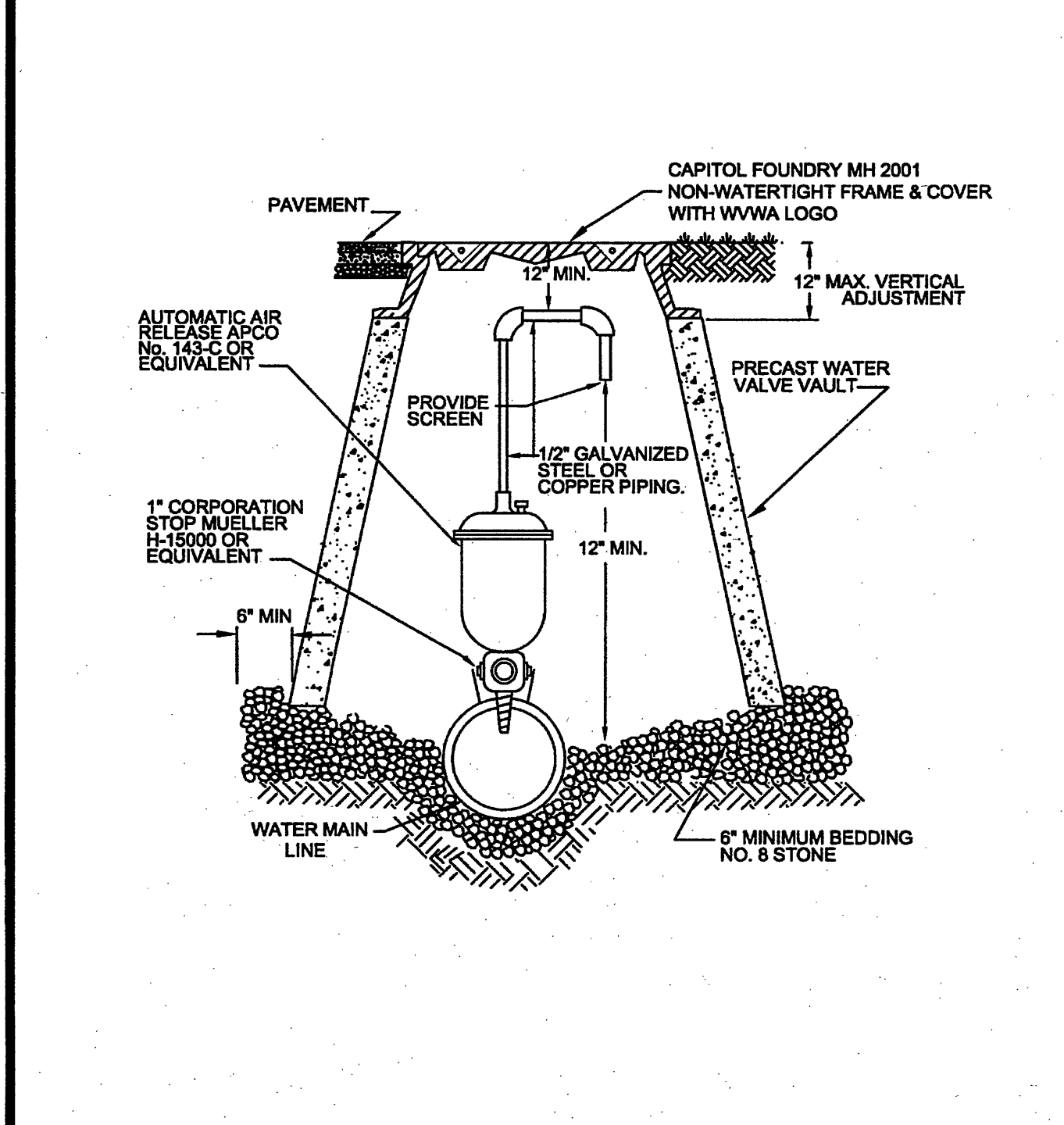
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-08
07/01/04	WATER LINE VALVE INSTALLATION	



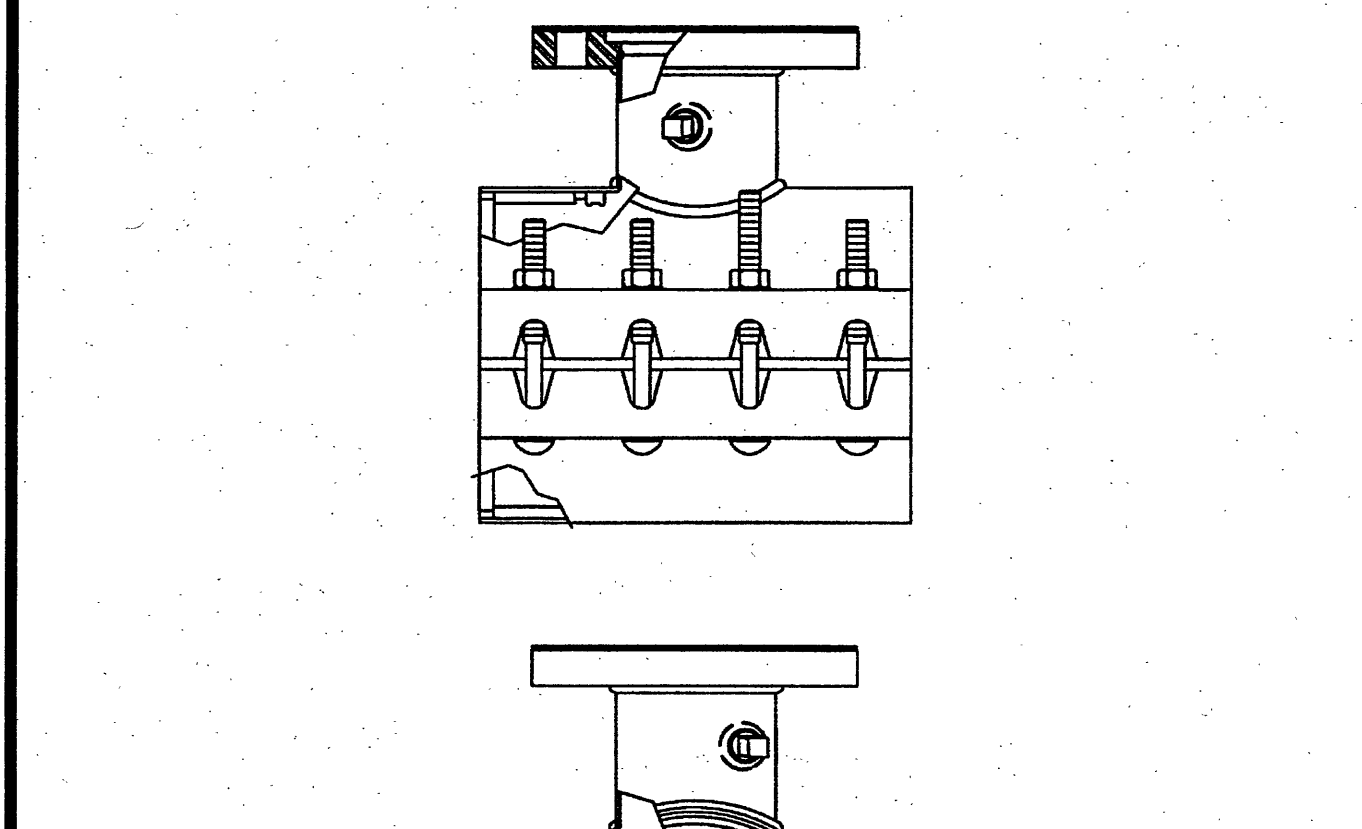
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-19
07/01/04	THRUST BLOCK CONSTRUCTION	

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

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-23
07/01/04	TAPPING SLEEVE AND VALVE	

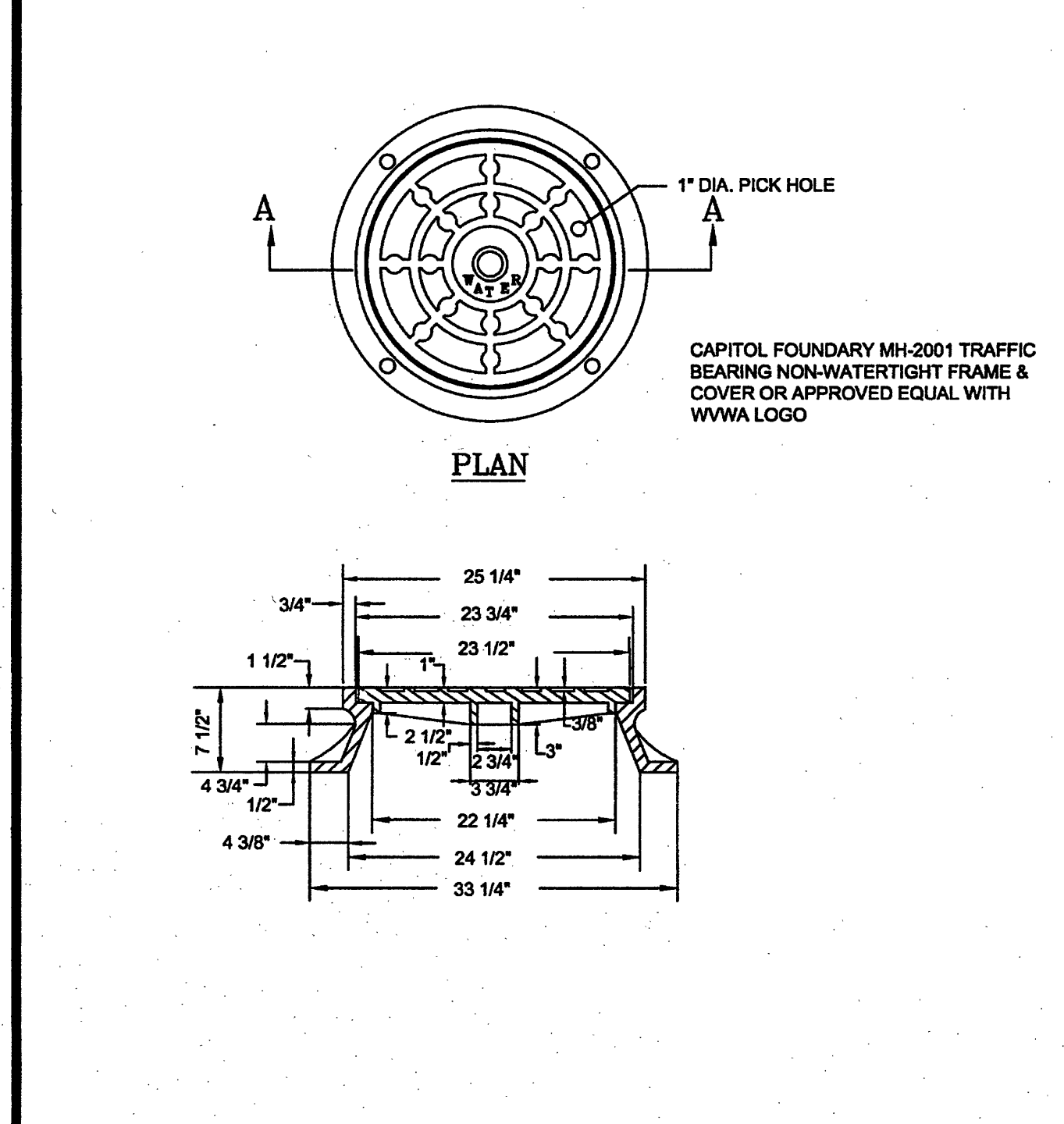


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-12
07/01/04	AUTOMATIC AIR RELEASE ASSEMBLY	

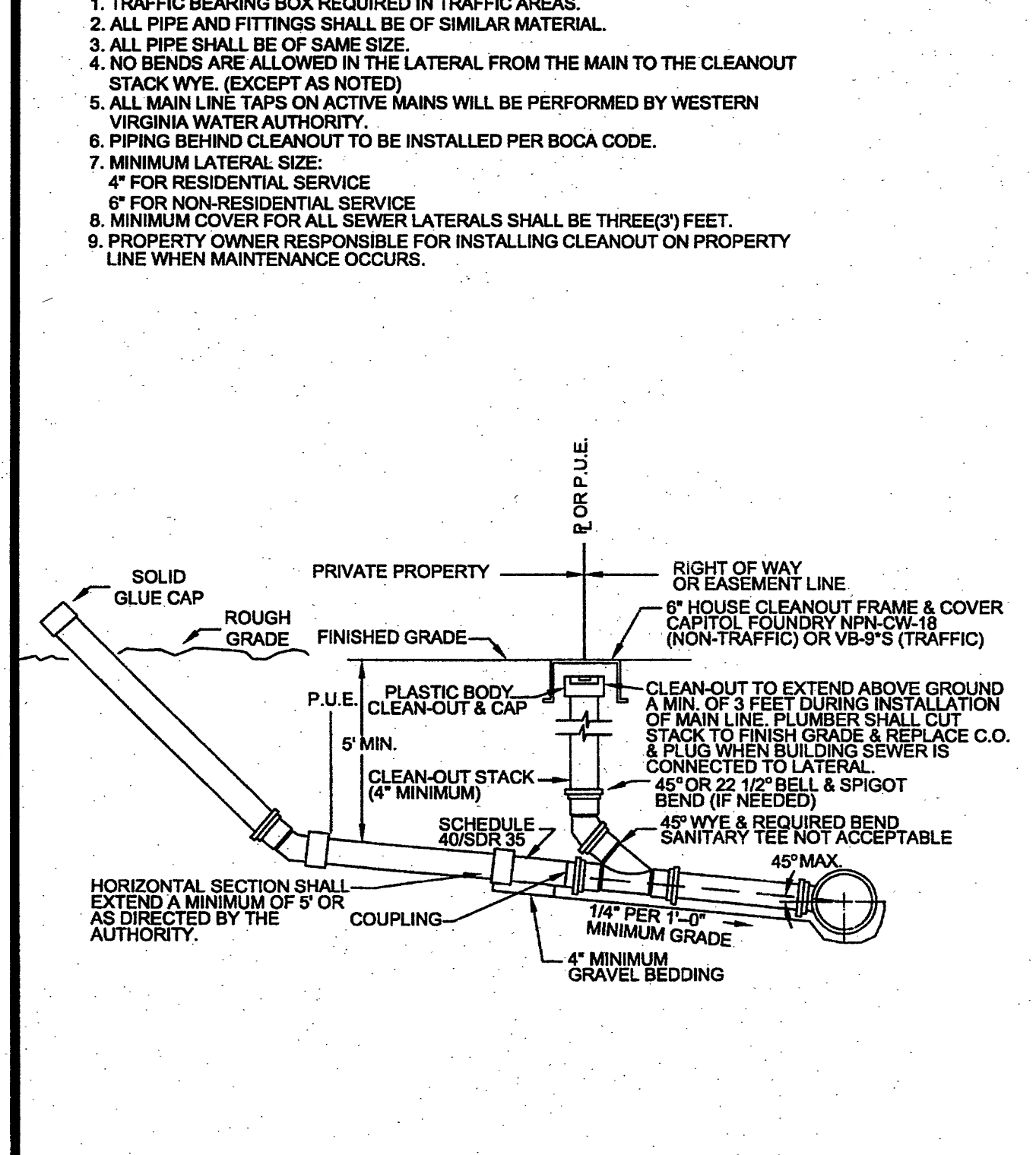


WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-08
07/01/04	SANITARY SEWER LATERAL	

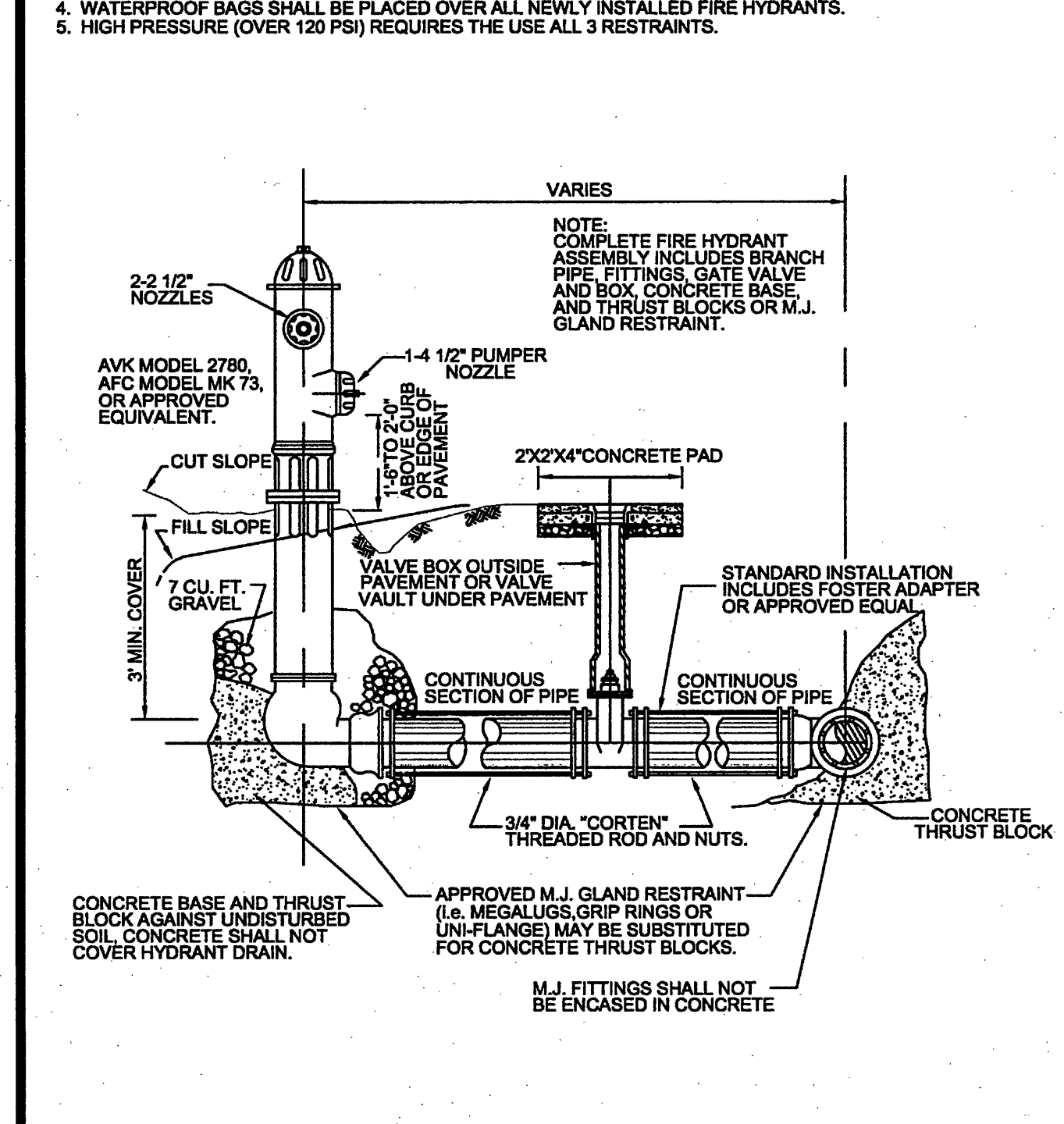
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-08
07/01/04	SANITARY SEWER LATERAL	



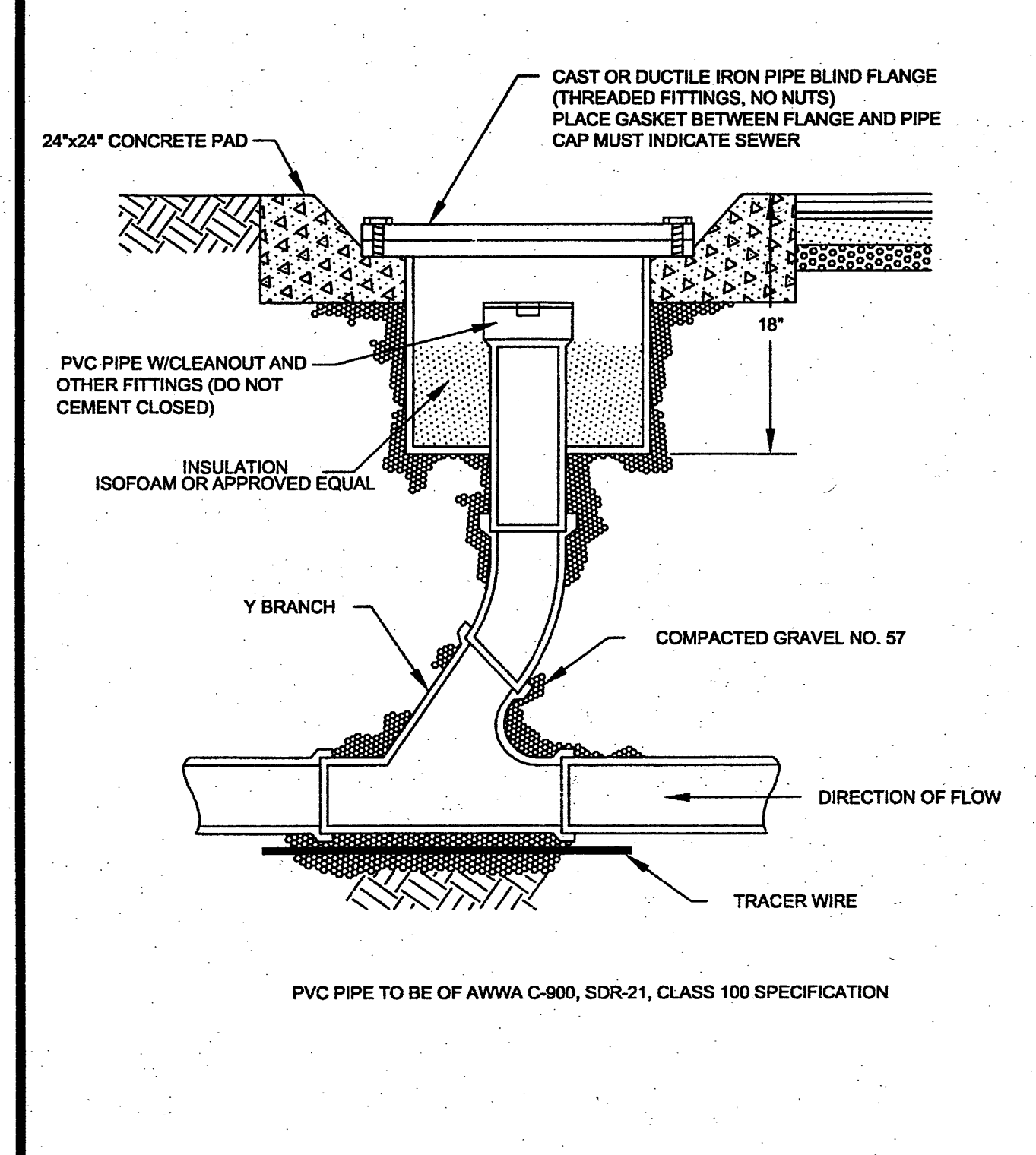
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-17
07/01/04	MANHOLE FRAME AND COVER	



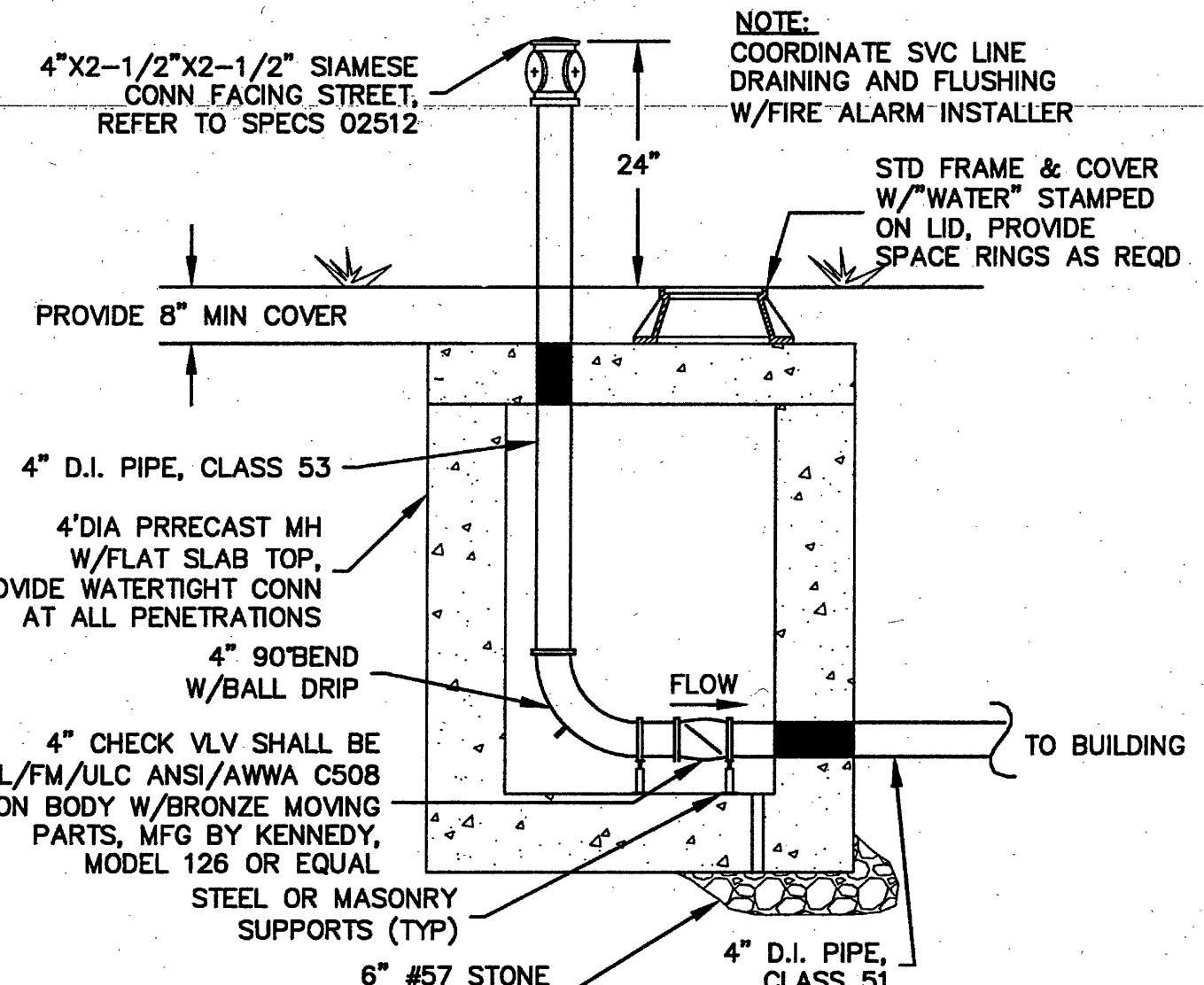
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-08
07/01/04	SANITARY SEWER LATERAL	



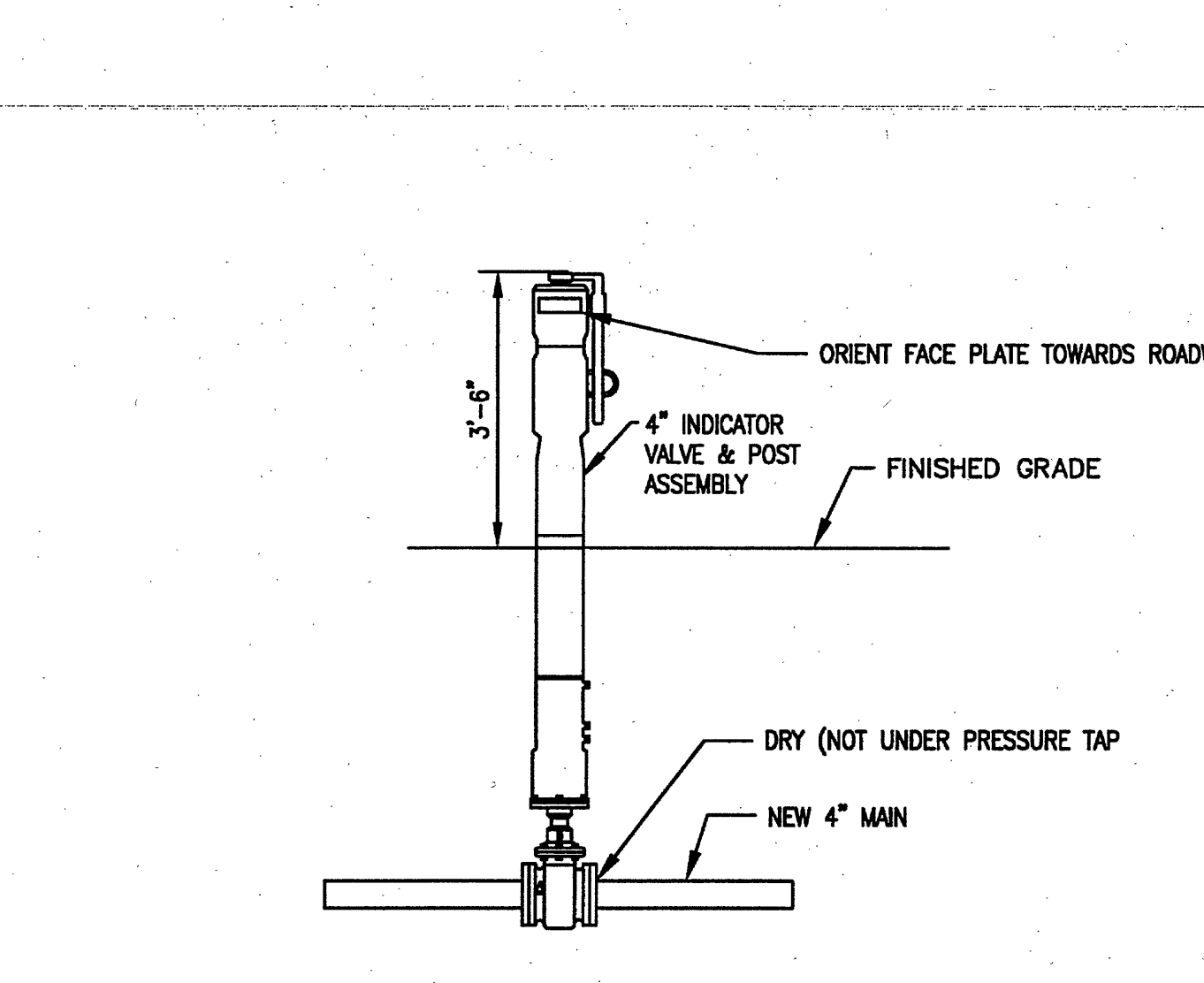
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-18
07/01/04	FIRE HYDRANT ASSEMBLY	



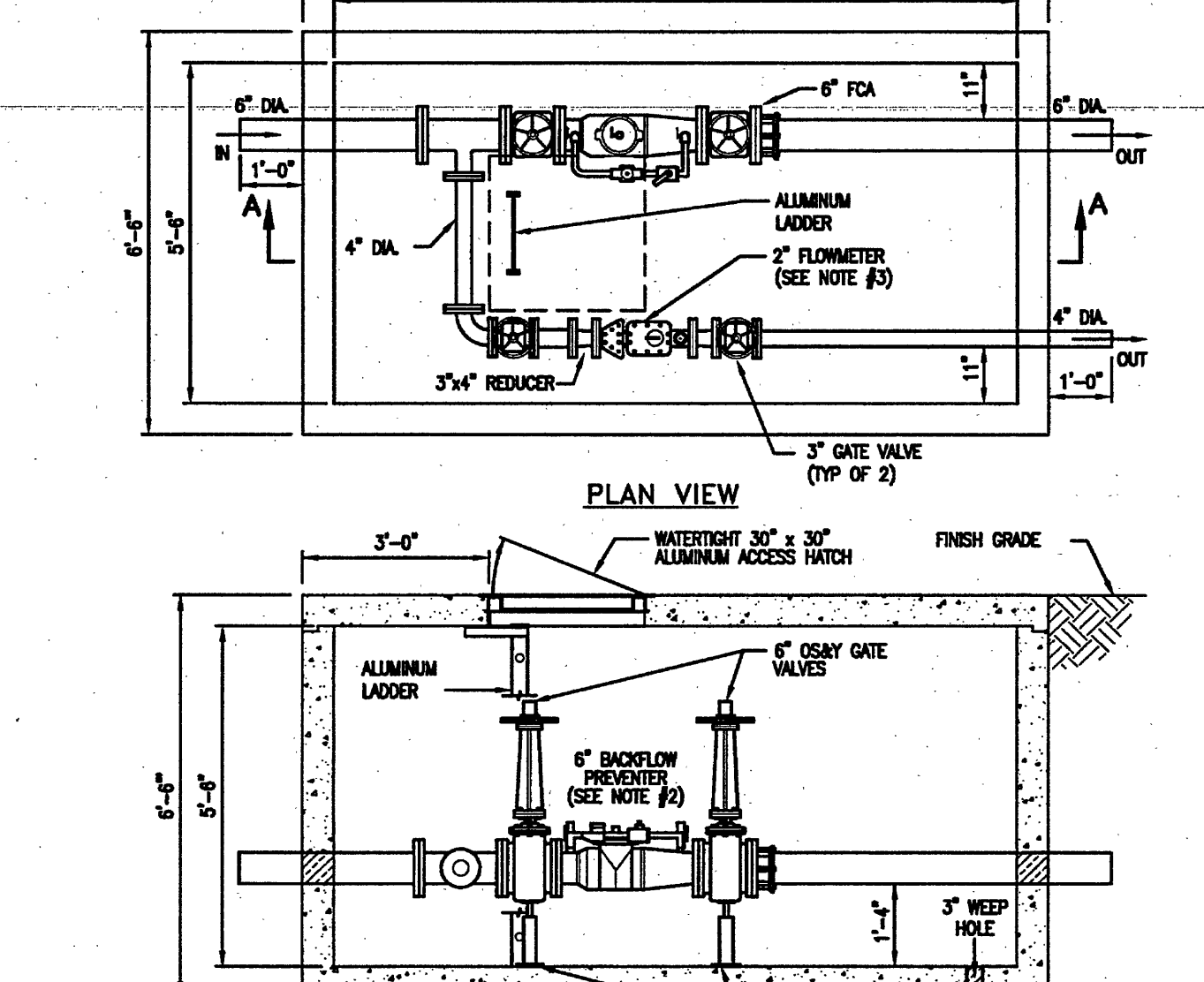
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-13
07/01/04	PVC-FORCE MAIN CLEANOUT	



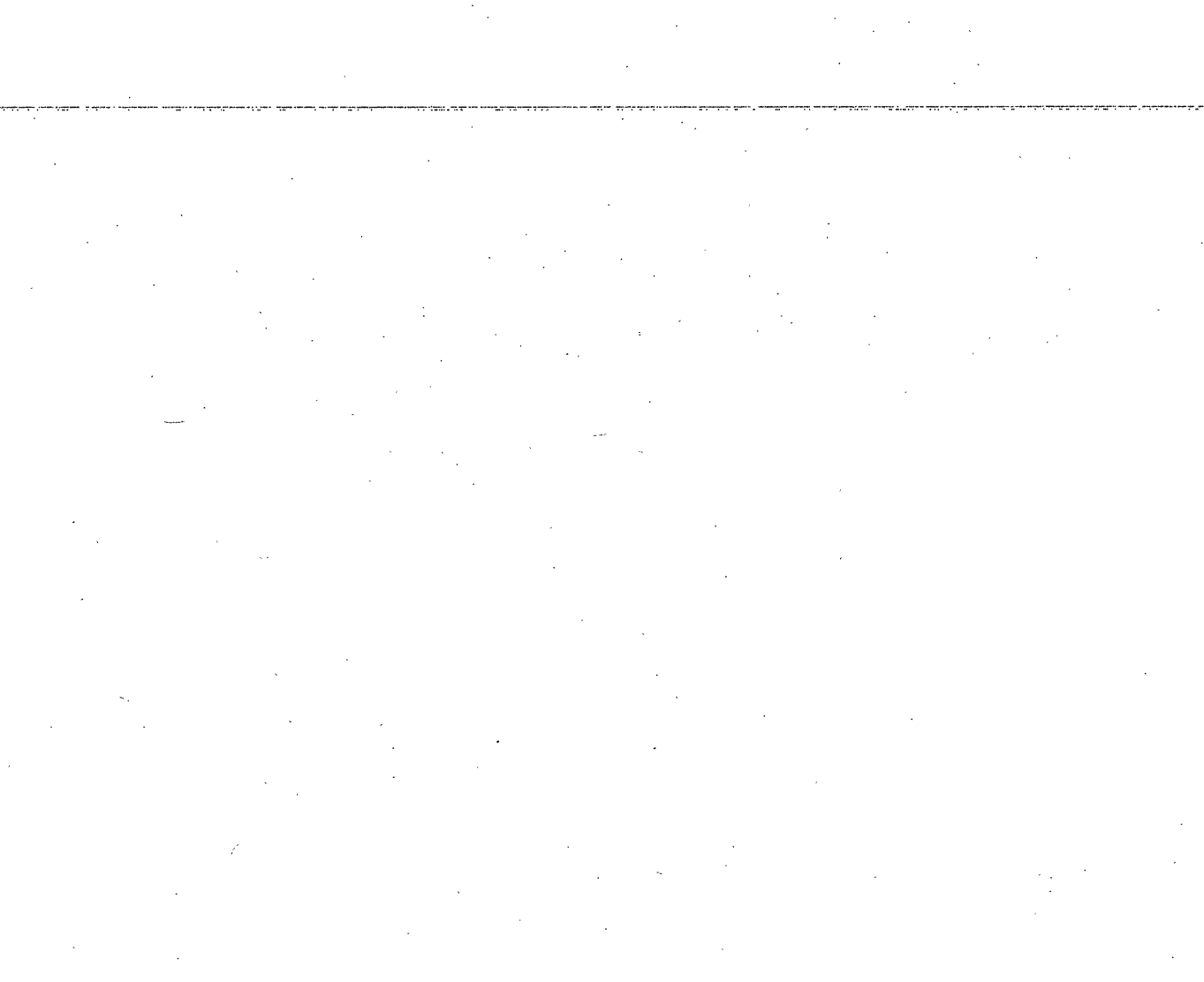
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-19
07/01/04	THRUST BLOCK CONSTRUCTION	



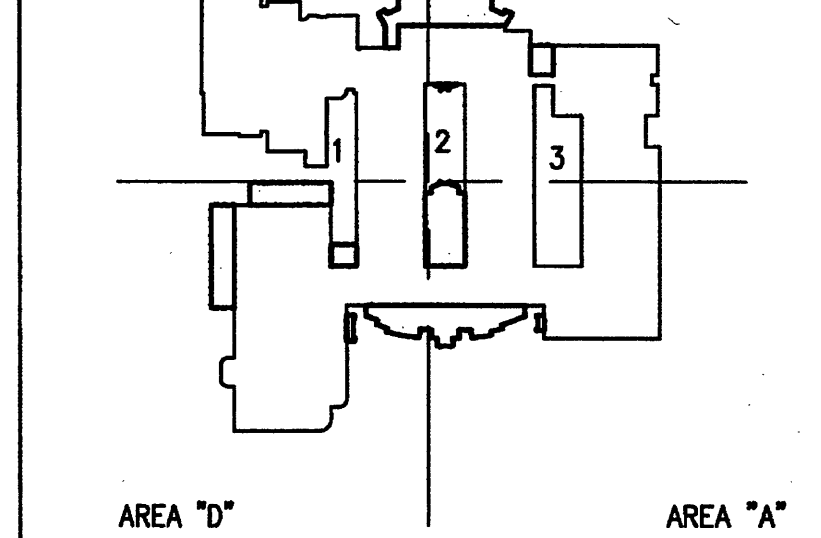
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	W-23
07/01/04	TAPPING SLEEVE AND VALVE	



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-08
07/01/04	SANITARY SEWER LATERAL	



WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		
REVISION DATE	DESCRIPTION	S-13
07/01/04	PVC-FORCE MAIN CLEANOUT	



GENERAL 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.

3. AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSTRUCTED.

4. WATERPROOF BASS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.

5. HIGH PRESSURE (OVER 120 PSI) REQUIRES THE USE ALL 3 RESTRAINTS.

NOTE: COMPLETE FIRE HYDRANT ASSEMBLY INCLUDES BRANCH PIPE, FITTINGS, GATE VALVE AND BOX CONCRETE BASE AND THRUST BLOCKS OR M.J. GLAND RESTRAINT.

NOTE: VALVE BOX OUTSIDE PAVEMENT OR VALVE VAULT UNDER PAVEMENT.

NOTE: CONTINUOUS SECTION OF PIPE.

NOTE: 3/4" DIA. "CORTEN" THREADED ROD AND NUTS.

NOTE: CONCRETE THRUST BLOCK.

NOTE: APPROVED M.J. GLAND RESTRAINT (i.e. MEGALUGS, GRIP RINGS OR UNIFLANGE) MAY BE SUBSTITUTED FOR CONCRETE THRUST BLOCKS.

NOTE: M.J. FITTINGS SHALL NOT BE ENCASED IN CONCRETE.

NOTE: CAST OR DUCTILE IRON PIPE BLIND FLANGE (THREADED FITTINGS, NO NUTS) PLACE GASKET BETWEEN FLANGE AND PIPE CAP MUST INDICATE SEWER.

NOTE: PVC PIPE W/CLEANOUT AND OTHER FITTINGS (DO NOT CEMENT CLOSED).

NOTE: ISOFOAM OR APPROVED EQUAL.

NOTE: 24"x24" CONCRETE PAD.

NOTE: Y BRANCH.

NOTE: COMPACTED GRAVEL NO. 57.

NOTE: DIRECTION OF FLOW.

NOTE: TRACER WIRE.

NOTE: PVC PIPE TO BE OF AWWA C-900, SDR-21, CLASS 100 SPECIFICATION.

NOTE: WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS.

NOTE: REVISION DATE.

NOTE: DESCRIPTION.

NOTE: W-18.

NOTE: 07/01/04.

NOTE: FIRE HYDRANT ASSEMBLY.

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