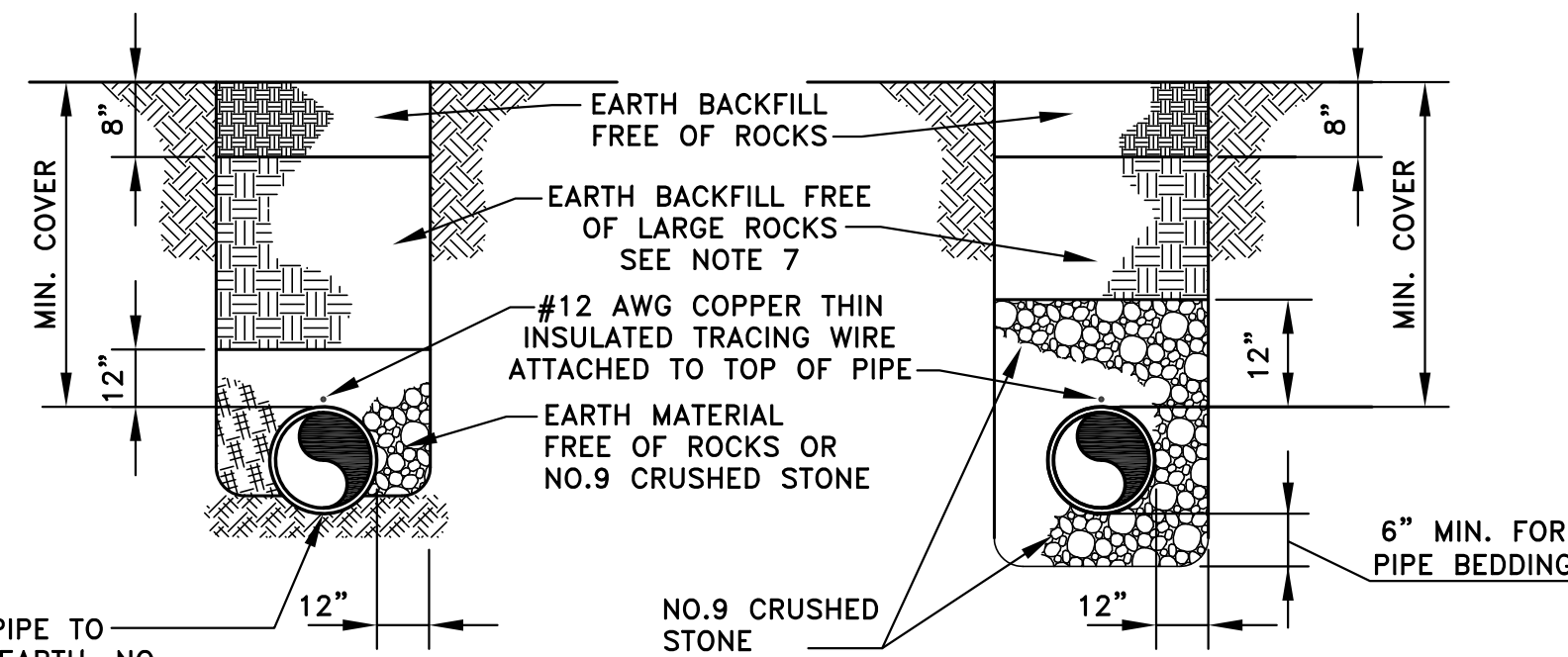


EARTH TRENCH

ROCK TRENCH



BOTTOM QUADRANT OF PIPE TO BEAR ON UNDISTURBED EARTH, NO LOOSE ROCKS. IF LOOSE ROCKS ENCOUNTERED, NO. 9 CRUSHED STONE TO BE SUBSTITUTED AT GWSSS REQUEST.

WATER MAIN BEDDING & BACKFILL

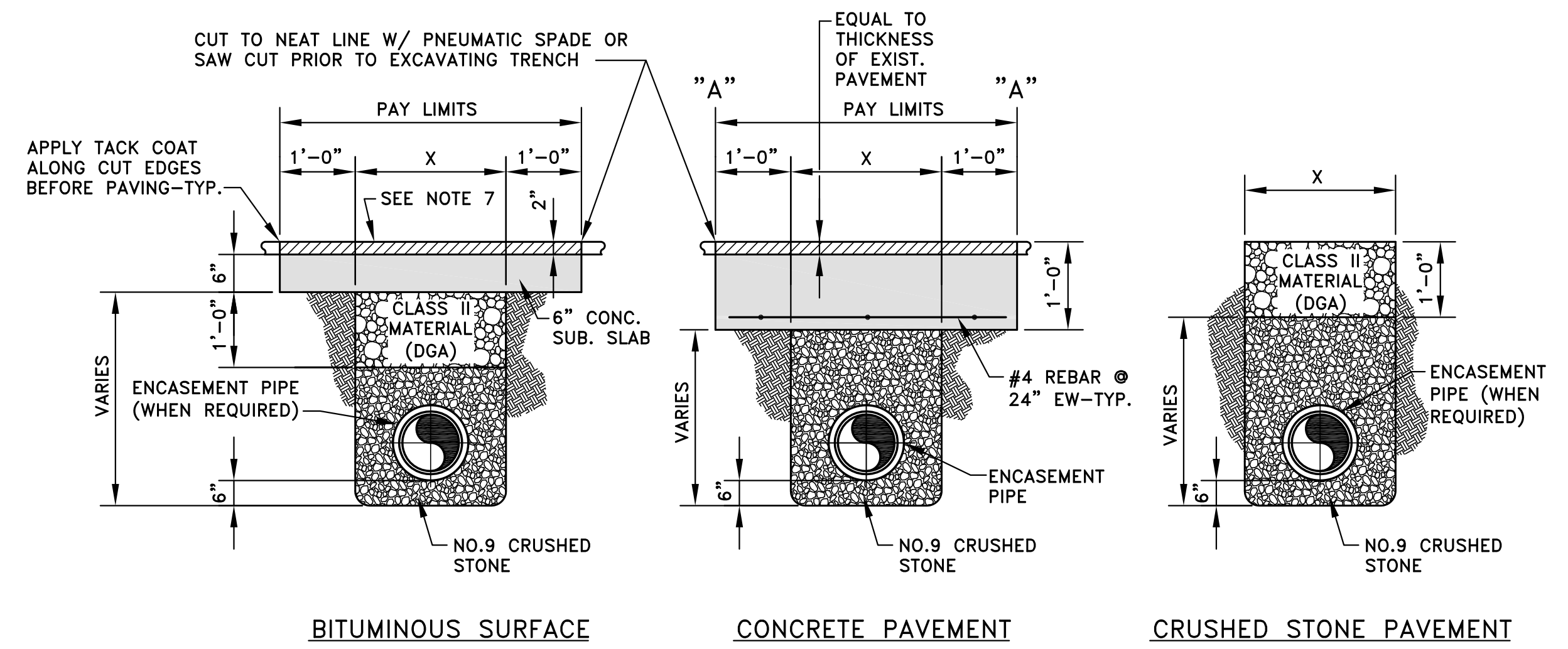
NOT TO SCALE

MARKING AND CLASSIFICATION OF FIRE HYDRANTS

HYDRANTS SHALL BE CLASSIFIED IN ACCORDANCE WITH THEIR RATED CAPACITIES [AT 20 PSI (1.4 BAR) RESIDUAL PRESSURE OR OTHER DESIGNATED VALUE] AS FOLLOWS:
 1. CLASS AA - RATED CAPACITY OF 1500 GPM OR GREATER
 2. CLASS A - RATED CAPACITY OF 1000-1499 GPM
 3. CLASS B - RATED CAPACITY OF 500-999 GPM
 4. CLASS C - RATED CAPACITY OF LESS THAN 500 GPM

THE TOPS AND NOZZLES CAPS SHALL BE PAINTED WITH THE FOLLOWING CAPACITY INDICATING COLOR SCHEME TO PROVIDE SIMPLICITY AND CONSISTENCY WITH COLORS USED IN SIGNAL WORK FOR SAFETY, DANGER AND INTERMEDIATE CONDITION:
 1. CLASS AA - KENTUCKY BLUE
 2. CLASS A - GREEN
 3. CLASS B - ORANGE
 4. CLASS C - RED

FOR RAPID IDENTIFICATION AT NIGHT, THE CAPACITY COLORS SHALL BE OF A REFLECTIVE-TYPE PAINT.



BITUMINOUS SURFACE

CONCRETE PAVEMENT

CRUSHED STONE PAVEMENT

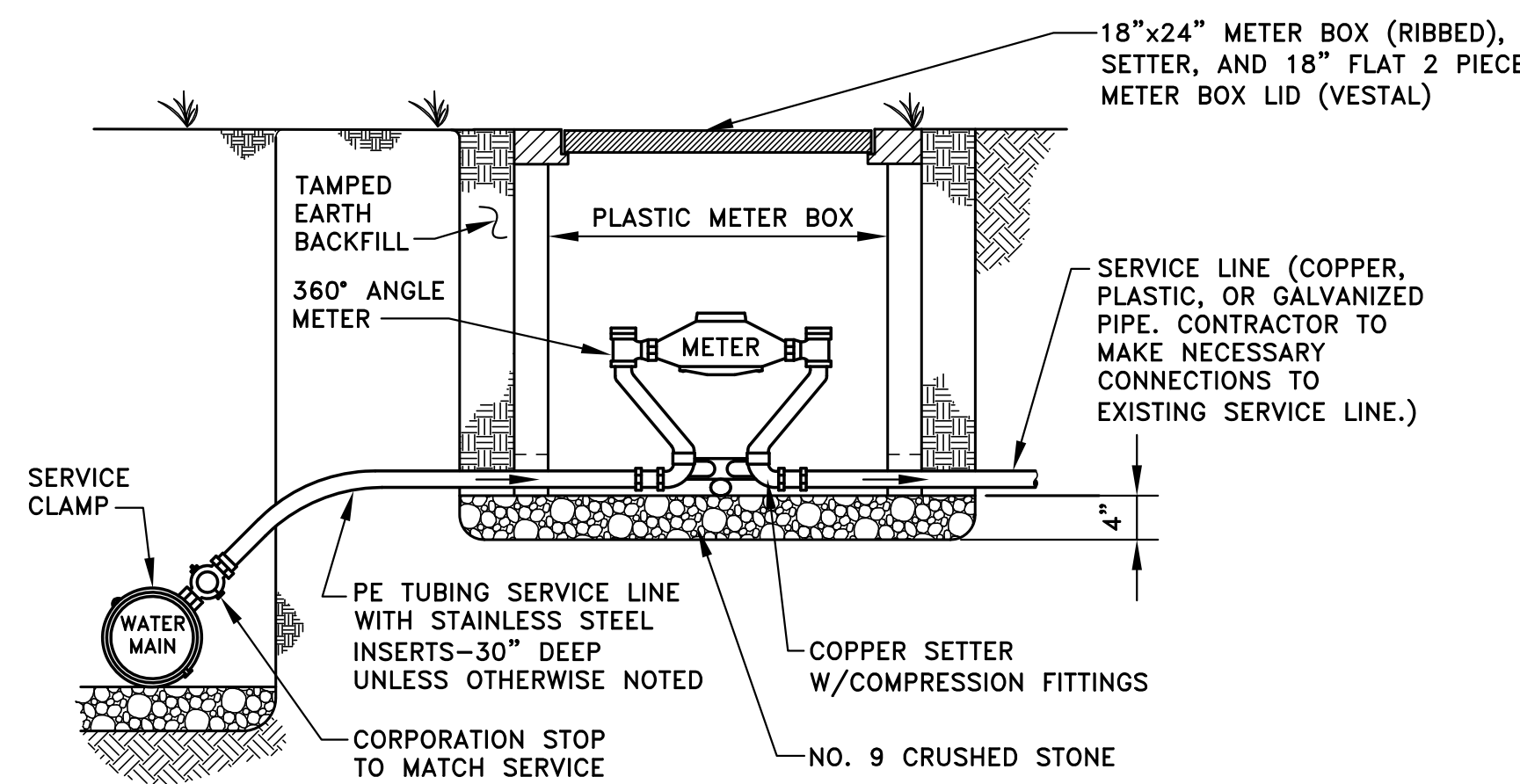
NEW PAVEMENT & PAVEMENT REPLACEMENT TRENCH DETAILS

NOT TO SCALE

NOTES:

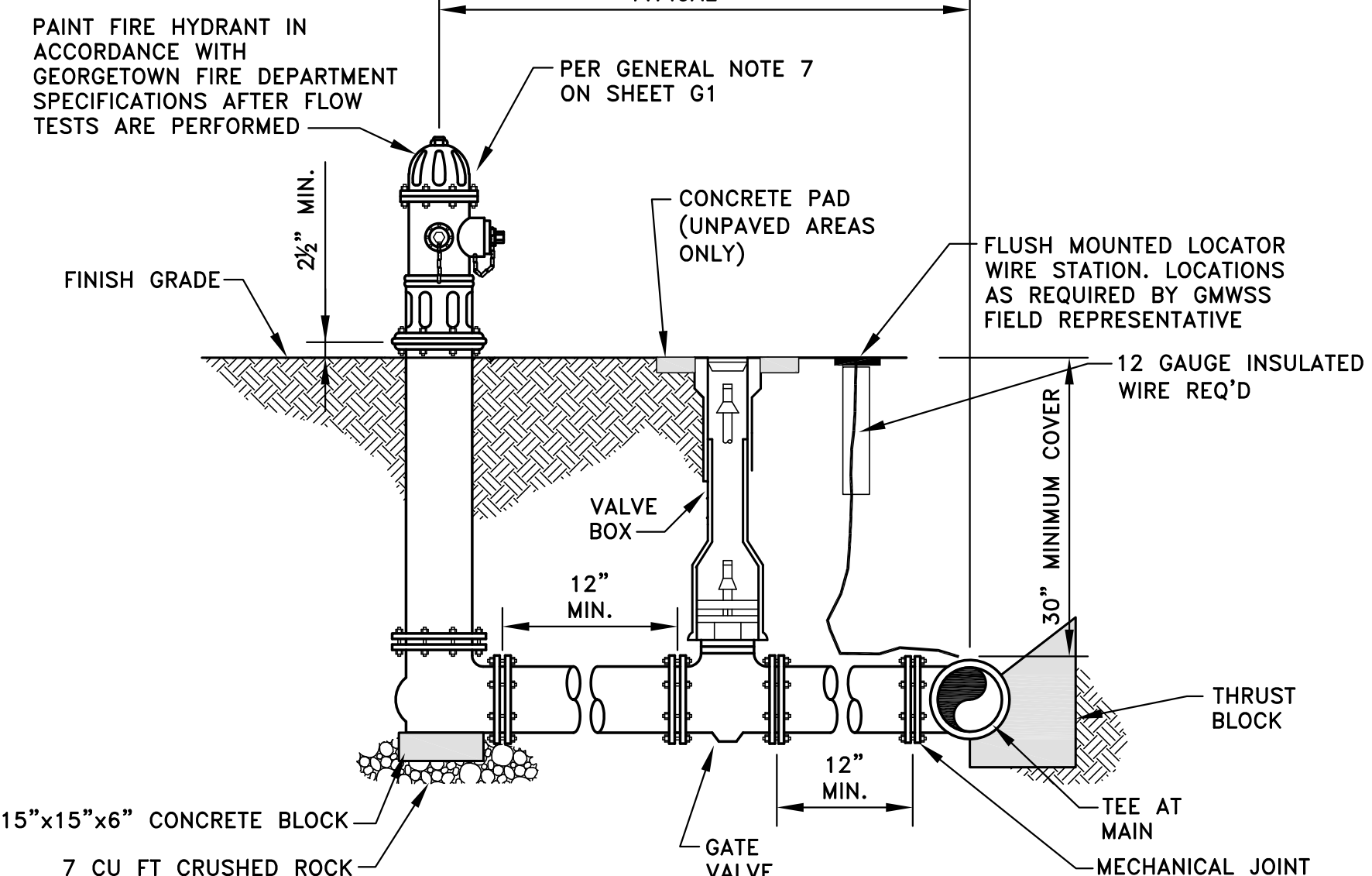
1. REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
2. IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO.9 CRUSHED STONE MUST BE PLACED UNDER THE PIPE.
3. X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (3" + PIPE O.D.)
4. FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST SIX (6) FEET OR MORE. IF LESS THAN SIX (6) FEET, REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.
5. NO.610 CRUSHED STONE MAY BE SUBSTITUTED FOR MECHANICALLY TAMPED EARTH BACKFILL WITH PRIOR APPROVAL OF THE ENGINEER.
6. SEE DETAIL "A" FOR PLACEMENT OF CARRIER PIPE IN CASING PIPE
7. 1' SAW CUT OUTSIDE OF TRENCH LINES, BITUMINOUS PATCH PLACED IN 2" LIFTS WITH TACK COAT ON EACH SIDE, EACH LIFT COMPACTED WITH SMALL ROLLER.
8. CONTRACTOR MUST ABIDE BY AND OBTAIN ALL REQUIRED PERMITS THAT ARE NEEDED BY THE CITY OF GEORGETOWN.

METER CONNECTION (3/4" to 1")



TYPICAL SERVICE CONNECTION

NOT TO SCALE

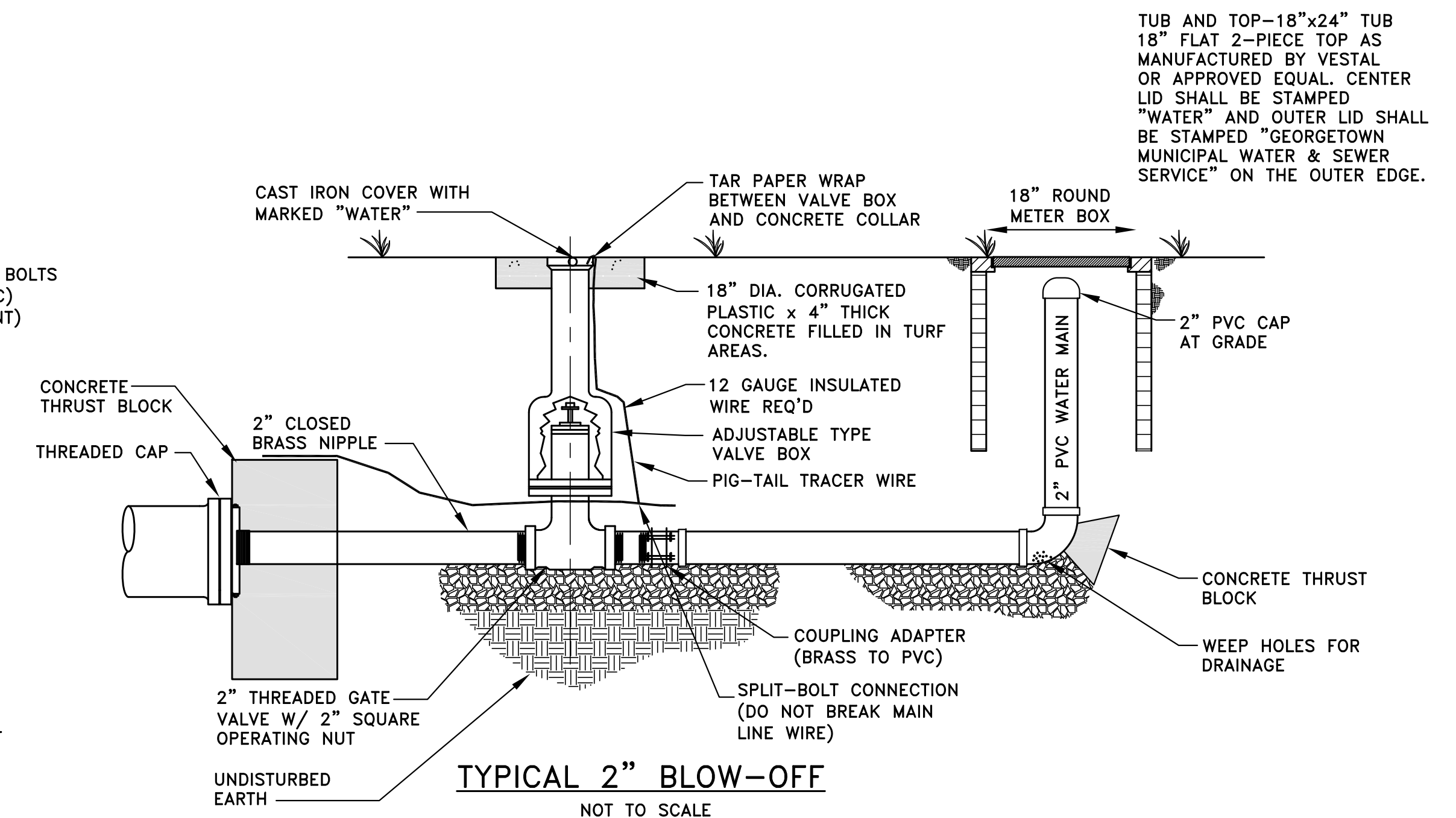


NOTES:

1. HYDRANT TO BE INSTALLED WITH PUMP NOZZLE FACING ROADWAY
2. AUXILIARY VALVE TO BE LOCATED AS SHOWN UNLESS OTHERWISE INDICATED ON PLANS
3. MECHANICAL JOINT RESTRAINTS ARE REQUIRED FROM WATER MAIN TO FIRE HYDRANT

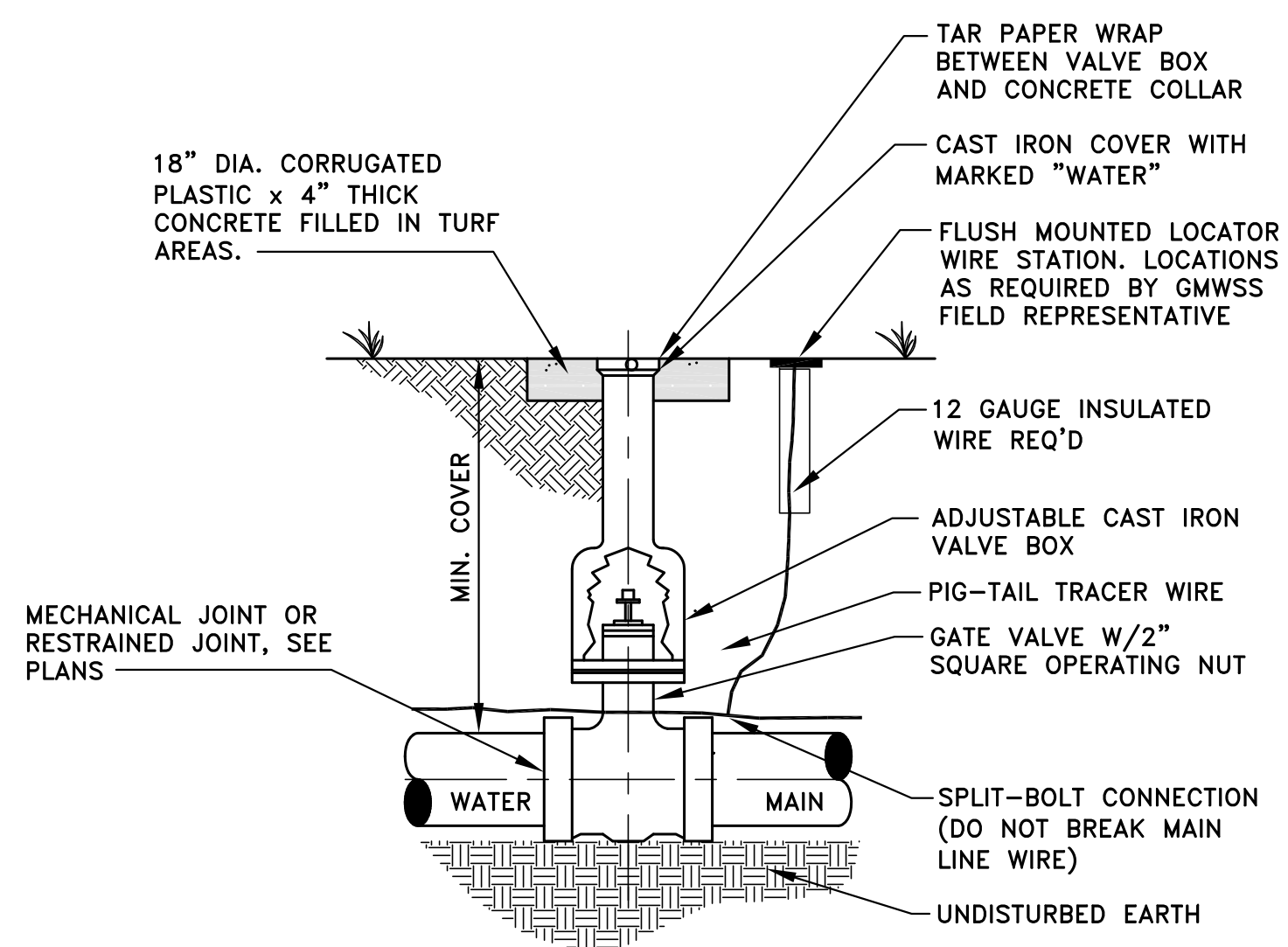
TYPICAL FIRE HYDRANT ASSEMBLY

NOT TO SCALE



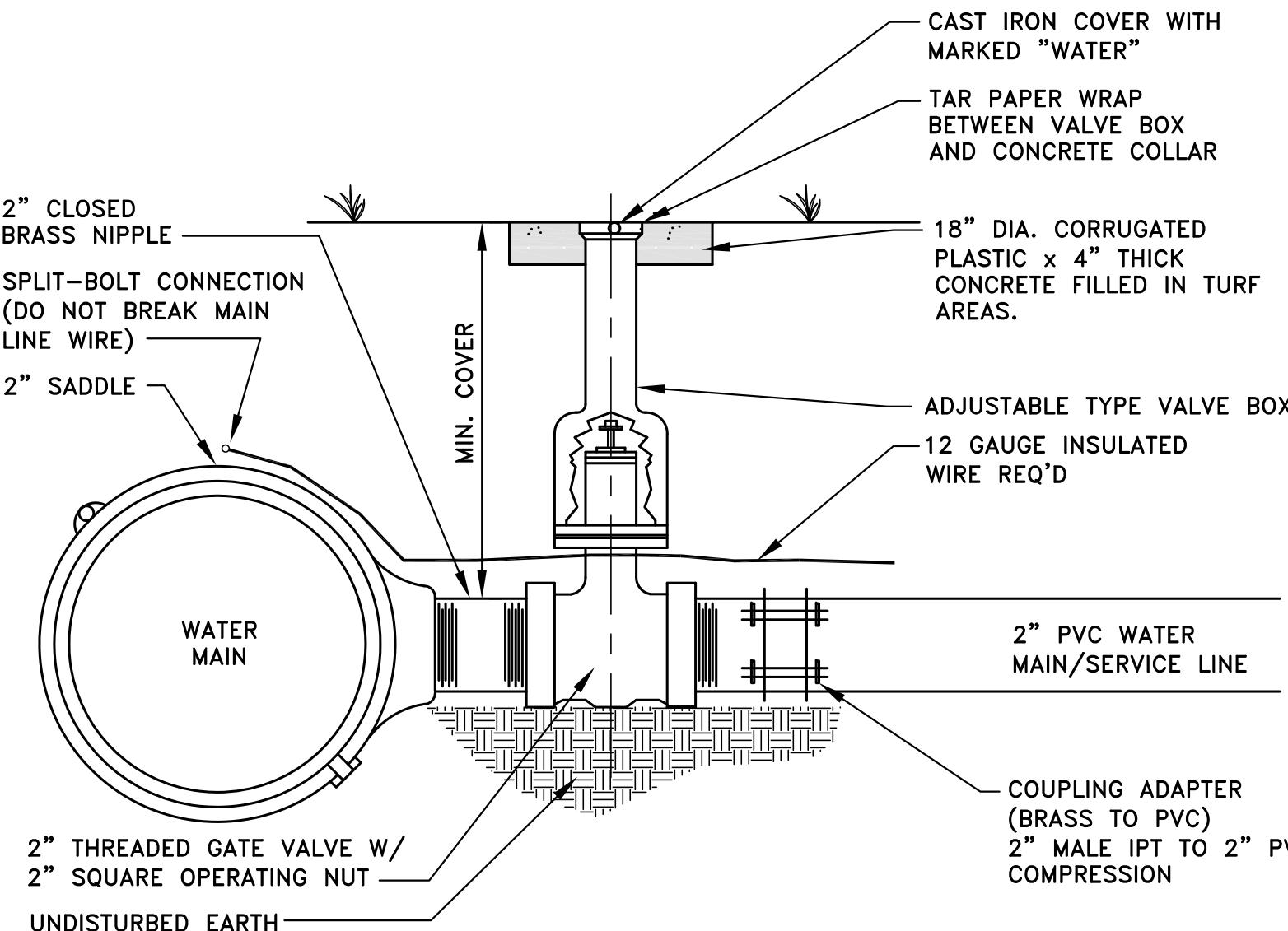
TYPICAL 2" BLOW-OFF

NOT TO SCALE



GATE VALVE INSTALLATION

NOT TO SCALE

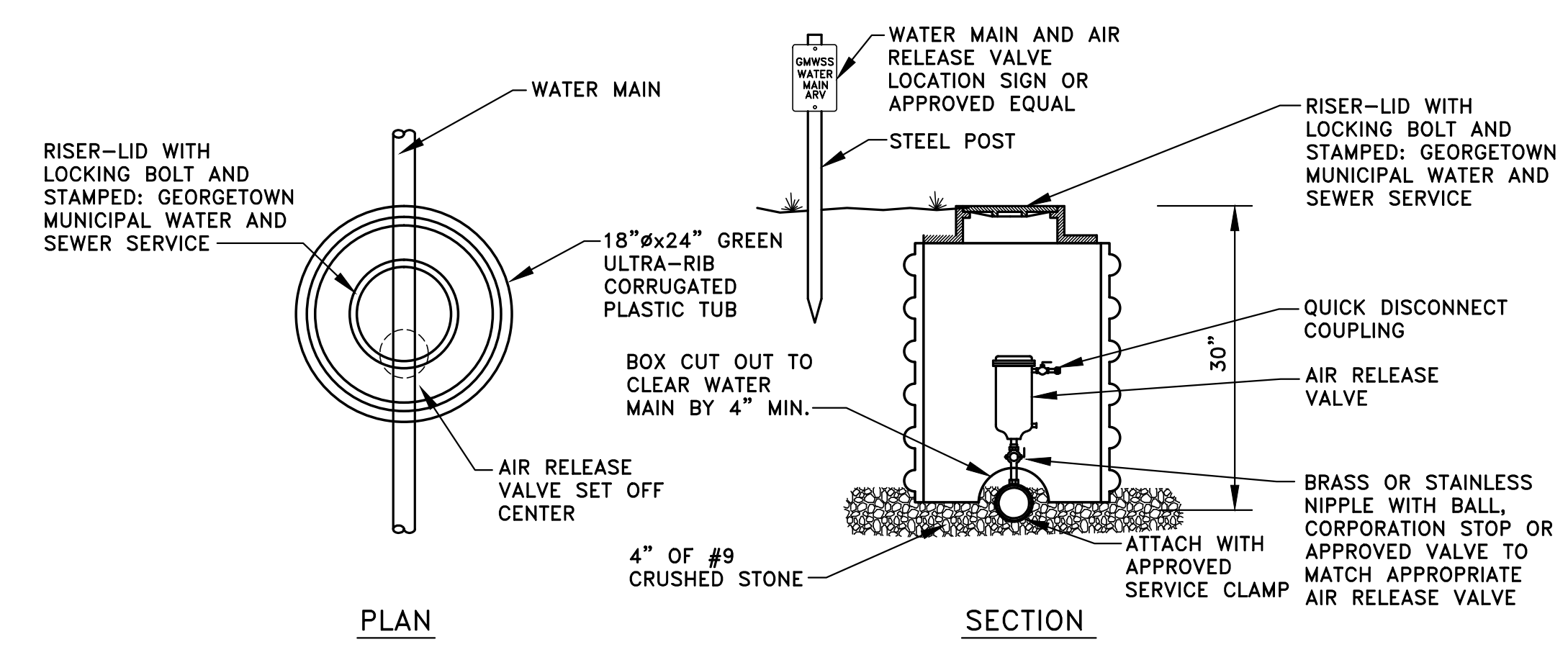


CONNECTION FOR 2" WATER MAINS/ SERVICE LINE

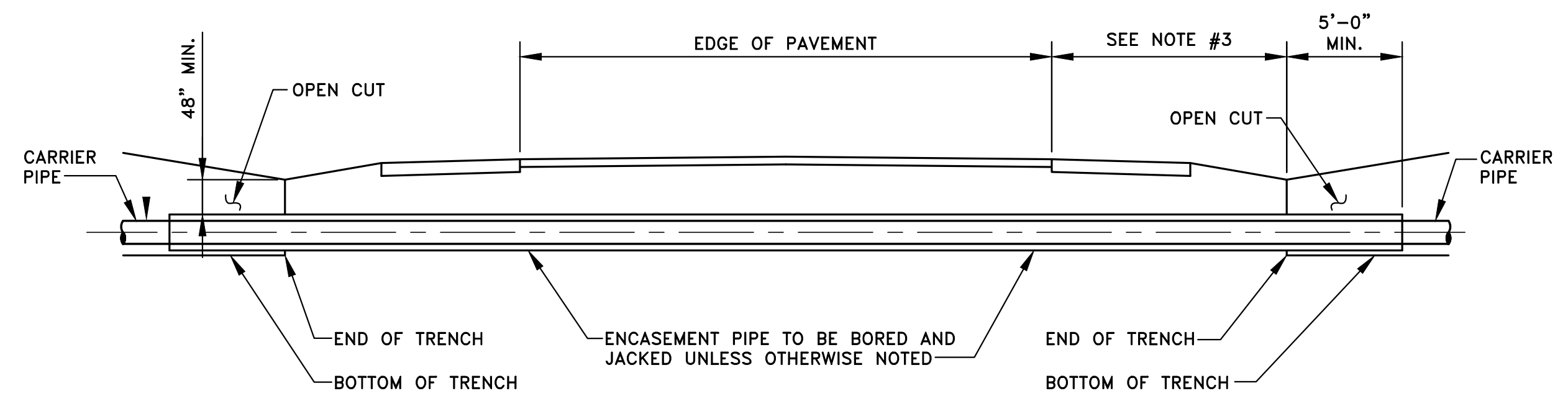
NOT TO SCALE

NO.	
REVISION:	
BY:	
DATE:	

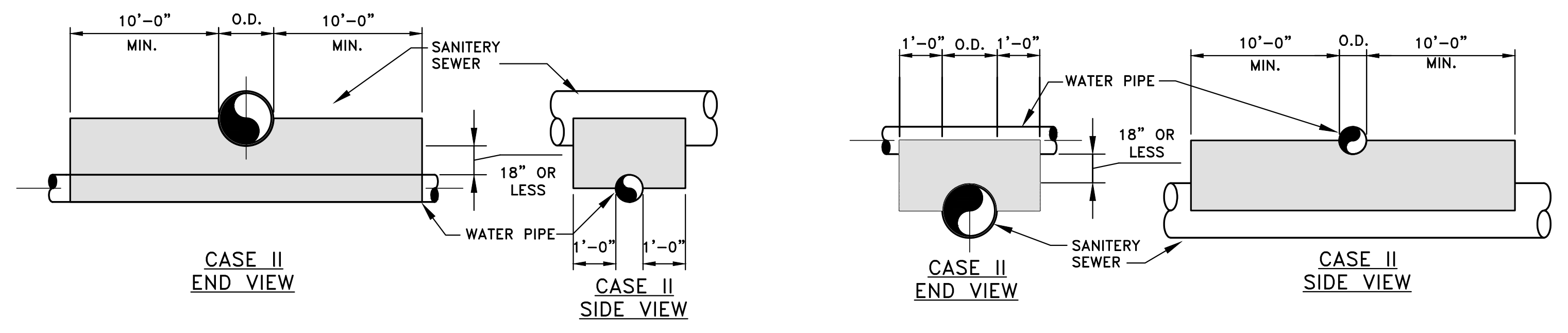
DRAWING INFORMATION	SCALE : AS NOTED
DESIGNED BY :	DDM
DRAWN BY :	DDM
CHECKED BY :	STAFF
PROJECT NO. :	
DATE :	
CADD DWG ID :	



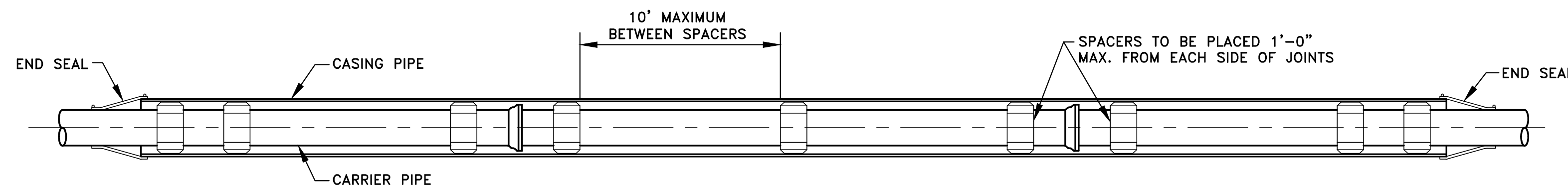
WATER AIR RELEASE VALVE DETAIL
NOT TO SCALE



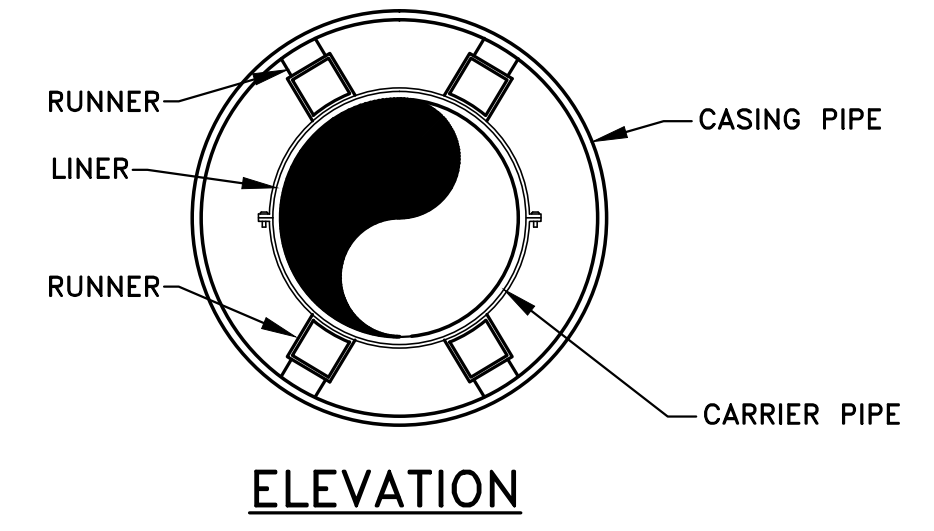
CROSS SECTION OF ENCASED ROAD CROSSING - TYPICAL
NOT TO SCALE



WATER/SANITARY SEWER CROSSING - ENCASEMENT
NOT TO SCALE

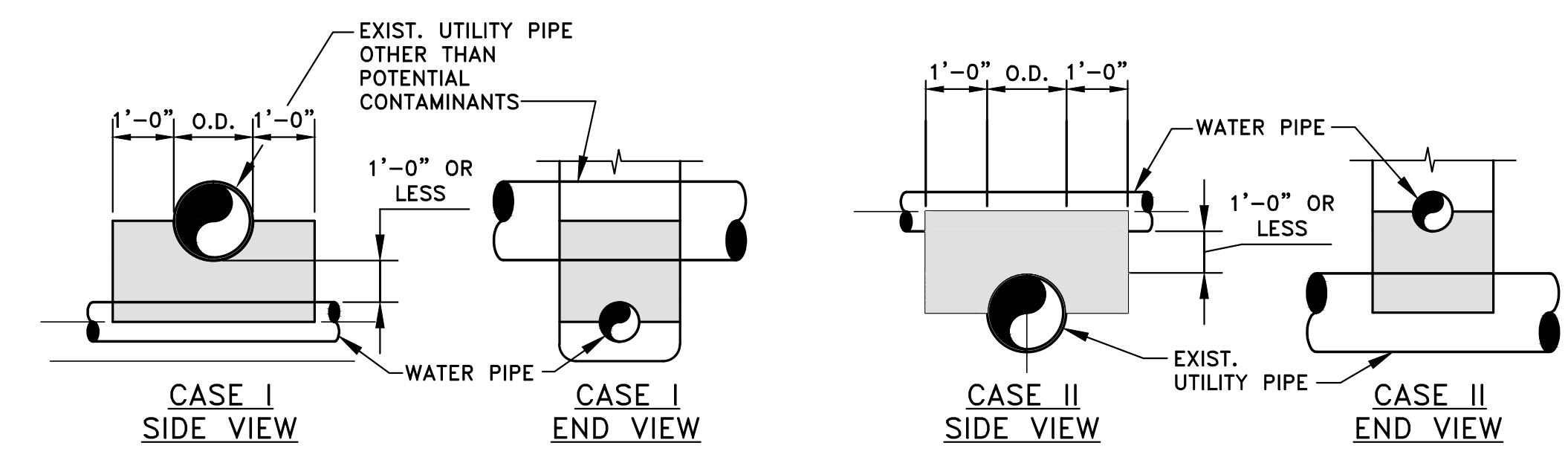


PLAN



ENCASEMENT PIPE SPACER DETAIL "A"
NOT TO SCALE

- NOTES:
1. ALL JOINTS SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
 2. MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
 3. OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY STATE, COUNTY OR MUNICIPAL SPECIFICATIONS.
 4. HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES 4" AND LESS SHALL BE NEW SCHEDULE 40. STEEL CASING PIPES LARGER THAN 4" SHALL HAVE MINIMUM WALL THICKNESS OF 0.25". ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THAN THE OUTSIDE DIAMETER OF THE ENCASEMENT PIPE.
 5. ENCASEMENT PIPE TO BE PAID PER LINEAR FOOT OF WATER MAIN ENCASED



UTILITY CROSSING CONCRETE SEPARATOR
NOT TO SCALE

W = WIDTH OF CONC. FROM UNDISTURBED

- NOTES:
1. CONCRETE SEPARATOR SHALL BE USED WHEN CLEARANCE BETWEEN WATER LINE AND UTILITY PIPE IS 12" OR LESS.
 2. "UTILITY PIPE" INCLUDES UNDERGROUND WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS, STORM SEWER OR TYPICALLY NON-CONTAMINATING FACILITIES. WHEN CROSSING SANITARY SEWER OR POTENTIAL CONTAMINANTS SEE DETAIL "WATER/SANITARY SEWER CROSSING".

CASING PIPE SCHEDULE		
CARRIER PIPE SIZE	CASING PIPE SIZE	MINIMUM WALL THICKNESS (INCHES)
2"	6"	0.250
3"	8"	0.250
4"	12"	0.250
6"	14"	0.312
8"	16"	0.312
10"	18"	0.312
12"	20"	0.312
14"	24"	0.375
16"	28"	0.375
20"	30"	0.500
24"	34"	0.625
30"	40"	0.625

NO.	1
REVISION:	
BY:	
DATE:	

GEORGETOWN MUNICIPAL WATER & SEWER SERVICE
SCOTT COUNTY, KENTUCKY
STANDARD WATER LINE DETAILS
REVISED APRIL 2020

DRAWING INFORMATION	SCALE : AS NOTED
DESIGNED BY :	DDM
DRAWN BY :	DDM
CHECKED BY :	STAFF
PROJECT NO :	
DATE :	
CADD DWG ID :	

