

CITY OF CROSSVILLE WATER GENERAL NOTE:

- PVC PIPE - CLASS 250 PSI PIPE SHALL BE USED UNLESS SPECIFIED OTHERWISE. ALL FITTINGS AND APPURTENANCES (INCLUDING SERVICES) FOR WATER LINE INSTALLATIONS SHALL HAVE A MINIMUM PRESSURE RATING OF 200 PSI. DUCTILE IRON PIPE - CLASS 350 SHALL BE USED FOR PIPES 10" OR GREATER UNLESS SPECIFIED OTHERWISE.

CATOOSA UTILITY DEPARTMENT WATER GENERAL NOTE:

- PVC PIPE - CLASS 200 PSI PIPE SHALL BE USED UNLESS SPECIFIED OTHERWISE. ALL FITTINGS AND APPURTENANCES (INCLUDING SERVICES) FOR WATER LINE INSTALLATIONS SHALL HAVE A MINIMUM PRESSURE RATING OF 200 PSI. DUCTILE IRON PIPE - CLASS 350 SHALL BE USED FOR PIPES 10" OR GREATER UNLESS SPECIFIED OTHERWISE.

WATER GENERAL NOTES:

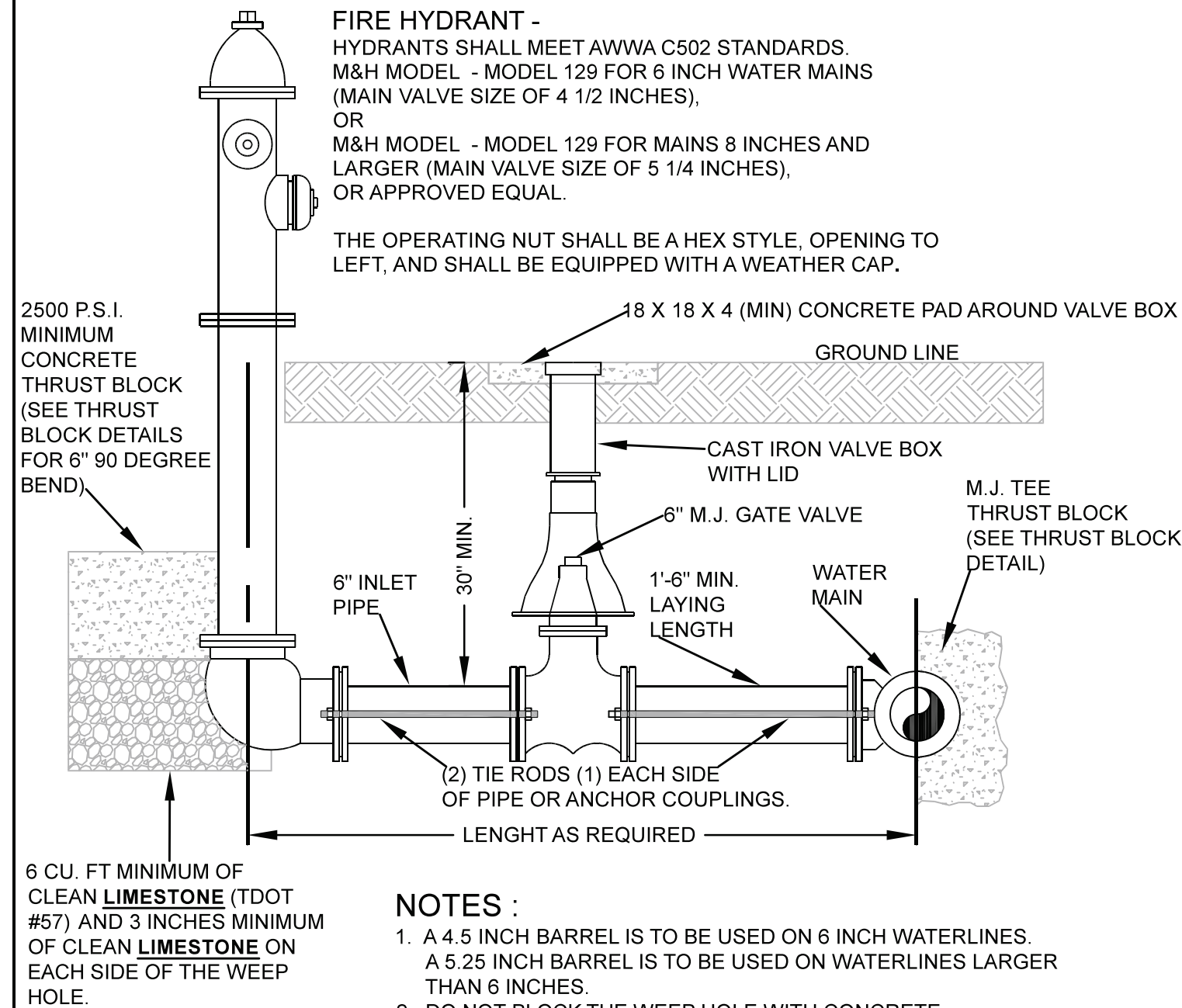
- WATER MAINS SHALL HAVE A MINIMUM OF 30" OF COVER, EXCEPT ON TDOT RIGHT OF WAYS WHERE A MINIMUM OF 36" OF COVER IS REQUIRED.
- TRENCH WIDTHS (WHERE ROCK IS ENCOUNTERED DURING EXCAVATION) SHALL BE A MINIMUM OF 2' PLUS THE DIAMETER OF THE WATER MAIN.
- ALL WATER MAINS (EXCLUDING THOSE IN A CASING) SHALL HAVE A MINIMUM OF 6" OF BEDDING BELOW, ON EACH SIDE IN SOIL, WITH A MINIMUM OF 12" ON EACH SIDE IN ROCK, AND 12" OF BEDDING ABOVE THE WATER MAIN. ALL BEDDING MATERIAL SHALL BE FREE OF ROCK LARGER THAN 2" DIAMETER AND ORGANIC DEBRIS, AND SHALL BE INSTALLED IN 6" WELL COMPACTED LIFTS. NO ROCK LARGER THAN 6" IN DIAMETER SHALL BE USED AS BACKFILL IN THE REMAINDER OF THE TRENCH.
- NEW WATER MAINS SHALL BE INSTALLED 5' INSIDE ROAD RIGHT OF WAYS (TYPICALLY) OR AS SHOWN ON PLANS.
- SUBMITTALS FOR "APPROVED EQUALS" MUST BE PRE-APPROVED IN WRITING BY THE CITY OF CROSSVILLE ENGINEERING DEPARTMENT PRIOR TO INSTALLATION.
- MECHANICAL JOINT RESTRAINTS SHALL BE USED ON ALL FITTINGS (UNLESS SPECIFIED OTHERWISE) AND SHALL BE EBAA IRON, INC., MEGALUG SERIES 2000PV FOR PVC PIPE AND EBAA IRON, INC., MEGALUG SERIES 1100 FOR DUCTILE IRON PIPE OR APPROVED EQUAL.
- ALL FLUSHING AND BACTERIOLOGICAL WATER SAMPLING SHALL BE DONE BY CITY OF CROSSVILLE OR CATOOSA UTILITY DEPARTMENT PERSONNEL. THE OPENING OF EXISTING VALVES TO FILL NEWLY INSTALLED WATER MAINS SHALL ALSO BE DONE BY CITY OF CROSSVILLE OR CATOOSA UTILITY DEPARTMENT PERSONNEL ONLY. THE CONTRACTOR SHALL NOT USE EXISTING METER YOKES, SERVICE CONNECTIONS, FIRE HYDRANTS, OR FLUSHING HYDRANTS TO FILL THE NEWLY INSTALLED WATER MAINS. THE CONTRACTOR SHALL USE POTABLE WATER FROM A SOURCE WHICH IS NOT CONNECTED TO A WATER MAIN OR WATER SERVICE FOR PRESSURE TESTING.
- CURRENT AWWA STANDARDS SHALL BE FOLLOWED BY THE CONTRACTOR FOR NEW WATER LINE DISINFECTION AND WATER LINE REPAIRS. THE CONTRACTOR SHALL ADD THE FIRST DOSE OF DISINFECTANT WITHIN 10' OF THE START OF A NEW PROJECT. DISINFECTANT SHALL BE APPLIED AT A MINIMUM OF 25 PPM DURING THE CONSTRUCTION PHASE OF THE PROJECT. BACTERIOLOGICAL WATER SAMPLES SHALL BE TAKEN (BY CITY EMPLOYEES) EVERY 1200', AND ALL SPUR LINES SHALL BE SAMPLED. WATER MAINS AND SPUR LINES MUST HAVE A NEGATIVE BACTERIOLOGICAL SAMPLE BEFORE BEING ACCEPTED INTO THE EXISTING WATER SYSTEM.
- IF A WATER SERVICE CONNECTION, BLOW-OFF HYDRANT, OR FIRE HYDRANT IS NOT LOCATED WHERE A BACTERIOLOGICAL WATER SAMPLE NEEDS TO BE TAKEN, THE CONTRACTOR SHALL INSTALL AN APPROVED 3/4" TAPPING SADDLE, 3/4" CORPORATION STOP, AND 3/4" SERVICE TUBING AS NEEDED TO OBTAIN THE SAMPLE. AFTER A NEGATIVE BACTERIOLOGICAL SAMPLE IS OBTAINED; THE SERVICE TUBING SHALL BE REMOVED, THE CORPORATION STOP CLOSED AND CAPPED, AND THE AREA BACKFILLED TO EXISTING GRADE. THE COST (INCLUDING LABOR) SHALL BE INCLUDED WITH THE PIPE INSTALLATION PRICE.
- BEFORE PRESSURE TESTING WATER MAINS, THE WATER MAIN SHALL BE ADEQUATELY CHLORINATED (50 PPM MINIMUM), ALLOWED TO SET A MINIMUM OF 24 HOURS, THEN FLUSHED TO AN ACCEPTABLE CHLORINE LEVEL (25 PPM MINIMUM). WHEN A PASSING PRESSURE TEST HAS BEEN ACCOMPLISHED, THE WATER MAIN SHALL BE FLUSHED AGAIN TO AN ACCEPTABLE CHLORINE LEVEL, SHALL REMAIN SEPARATED FROM THE EXISTING WATER SYSTEM FOR 48 HOURS (MINIMUM), THEN A BACTERIOLOGICAL WATER SAMPLE SHALL BE TAKEN. IF THE BACTERIOLOGICAL WATER SAMPLE PASSES, THE WATER MAIN SHALL BE ADDED TO THE WATER SYSTEM.
- ALL WATER MAINS AND WATER SERVICE LINES CROSSING STREETS/ROADS SHALL BE ENCASED UNLESS OTHERWISE SPECIFIED BY THE CITY OF CROSSVILLE ENGINEERING DEPARTMENT. TRACER WIRE AND LOCATOR TAPE SHALL BE INSTALLED IN EACH STREET / ROAD CROSSING WHETHER IT BE A MAIN LINE OR A SERVICE LINE. LOCATOR WIRE SHALL BE PLACED IN THE CASING WITH THE CARRIER PIPE.
- STEEL CASING SHALL BE USED IN ALL BORE AND JACK CROSSINGS, AND WHEN THE TOP OF THE CASING PIPE IS LESS THAN 24" BELOW ROAD SURFACE OR WHEN THE CASING SHALL BE INSTALLED GREATER THAN 7" DEEP FROM THE ROAD SURFACE. STEEL CASING SHALL HAVE A MINIMUM CLEARANCE OF 2" BETWEEN THE CASING AND THE CARRIER PIPE. SPACERS SHALL BE INSTALLED NO MORE THAN 18" FROM EITHER END OF THE CASING.
- STEEL CASINGS SHALL MEET ASTM A-252, SHALL BE BITUMINOUS COATED INSIDE AND OUT, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 PSI. THE STEEL CASINGS SHALL ALSO MEET AASHTO H 20 LOADING REQUIREMENTS.
- TRENCHES SHALL BE OPENED SUFFICIENTLY TO ALLOW INSTALLATION AND REMOVAL OF CARRIER PIPE IN MANUFACTURED LENGTHS FROM EITHER END OF THE CASING PIPE. SPACERS SHALL BE USED IN ALL CASINGS UNLESS OTHERWISE NOTED. WHERE CARRIER PIPE IS 2" OR GREATER, SPACERS SHALL BE A MAXIMUM OF 7' APART (OR AS SPECIFIED BY THE MANUFACTURER) AND WITHIN 2' OF EACH BELL WITH A MINIMUM 2" SPACE BETWEEN THE CASING AND THE CARRIER PIPE. CASING SPACERS SHALL BE BWM COMPANY MODEL BWM SS (STAINLESS STEEL) OR APPROVED EQUAL.
- CASING END SEALS SHALL BE USED AND SHALL BE BWM COMPANY MODEL BWM-PO OR MODEL BWM-WP WITH STAINLESS STEEL BANDS OR APPROVED EQUAL.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF CROSSVILLE ENGINEERING DEPARTMENT A MINIMUM OF 24 HOURS IN ADVANCE OF ALL NEW CONSTRUCTION WHICH SHALL REQUIRE INSPECTION, SURVEY LOCATION, BACTERIOLOGICAL TESTING, OR PRESSURE TESTING.

POTABLE WATER PRESSURE TEST:

EACH SECTION OF THE COMPLETED WATER MAIN SHALL BE SUBJECTED TO A PRESSURE TEST. THE SECTION TO BE TESTED SHALL BE VALVED OFF BY GATE VALVES. THEN SHALL BE FILLED WITH WATER, AND A POSITIVE DISPLACEMENT TEST PUMP SHALL BE USED TO PUMP WATER INTO THE SECTION TO BUILD UP A TEST PRESSURE OF THE GREATER OF 1.5 TIMES THE WORKING PRESSURE OR 200 PSI FOR CLASS 250 PIPE AND DUCTILE IRON PIPE OR 175 PSI FOR CLASS 200 PVC PIPE. THE TEST PUMP SHALL THEN BE VALVED OFF FROM THE SYSTEM AND THE PRESSURE SHALL BE OBSERVED A MINIMUM OF TWO HOURS. A DROP IN PRESSURE OF 5 PSI OR MORE DURING THE TWO HOUR TEST PERIOD SHALL BE TAKEN AS AN INDICATION OF LEAKAGE (FAILURE). IN THE EVENT LEAKS ARE FOUND AND CORRECTED, THE PRESSURE TEST SHALL BE REPEATED USING THE SAME PROCEDURE AS DESCRIBED ABOVE. A LINE FAILING THIS TEST WILL NOT BE PLACED IN SERVICE OR ACCEPTED BY THE CITY OF CROSSVILLE. IF POSSIBLE, A DIGITAL GAUGE SHALL BE USED TO RECORD THE LINE PRESSURE FOR THE DURATION OF THE PRESSURE TEST.

POTABLE WATER LINE ACCEPTANCE:

WATER MAINS AND SERVICES SHALL BE ACCEPTED ONLY AFTER ALL CITY OF CROSSVILLE INSTALLATION AND TESTING REQUIREMENTS HAVE BEEN MET. THE CITY OF CROSSVILLE ENGINEERING DEPARTMENT SHALL VERIFY THAT ALL THE CRITERIA HAS BEEN ACCOMPLISHED FOR THE ACCEPTANCE OF THE WATER MAINS AND SERVICES BEFORE BEING PLACED INTO THE EXISTING WATER SYSTEM.



- NOTES:**
- A 4.5 INCH BARREL IS TO BE USED ON 6 INCH WATERLINES. A 5.25 INCH BARREL IS TO BE USED ON WATERLINES LARGER THAN 6 INCHES.
 - DO NOT BLOCK THE WEEP HOLE WITH CONCRETE.
 - FIRE HYDRANTS AND VALVES SHALL BE INSTALLED A MINIMUM OF 5' BEHIND THE CENTER LINE OF THE DITCH ON STATE ROUTES.

SEE VALVE AND VALVE BOX DETAIL FOR INSTALLATION REQUIREMENTS

FIRE HYDRANT ASSEMBLY
NOT TO SCALE

NOTE: M.J. = MECHANICAL JOINT.

90 DEGREE BEND							
SIZE	2"	4"	6"	8"	10"	12"	18"
A	16"	16"	26"	33"	40"	50"	70"
B	16"	16"	24"	33"	40"	50"	70"
C	9"	9"	12"	12"	15"	16"	22"
D	8"	8"	12"	16"	20"	25"	24"

45 DEGREE BEND							
SIZE	2"	4"	6"	8"	10"	12"	18"
A	12"	12"	18"	24"	31"	37"	52"
B	12"	12"	18"	24"	31"	37"	52"
C	8"	8"	10"	12"	14"	16"	14"
D	6"	6"	9"	12"	15"	18"	18"

22-1/2 DEGREE BEND							
SIZE	2"	4"	6"	8"	10"	12"	18"
A	9"	9"	13"	18"	23"	26"	40"
B	9"	9"	13"	18"	23"	26"	40"
C	8"	8"	10"	12"	14"	16"	15"
D	4"	4"	6"	9"	11"	13"	16"

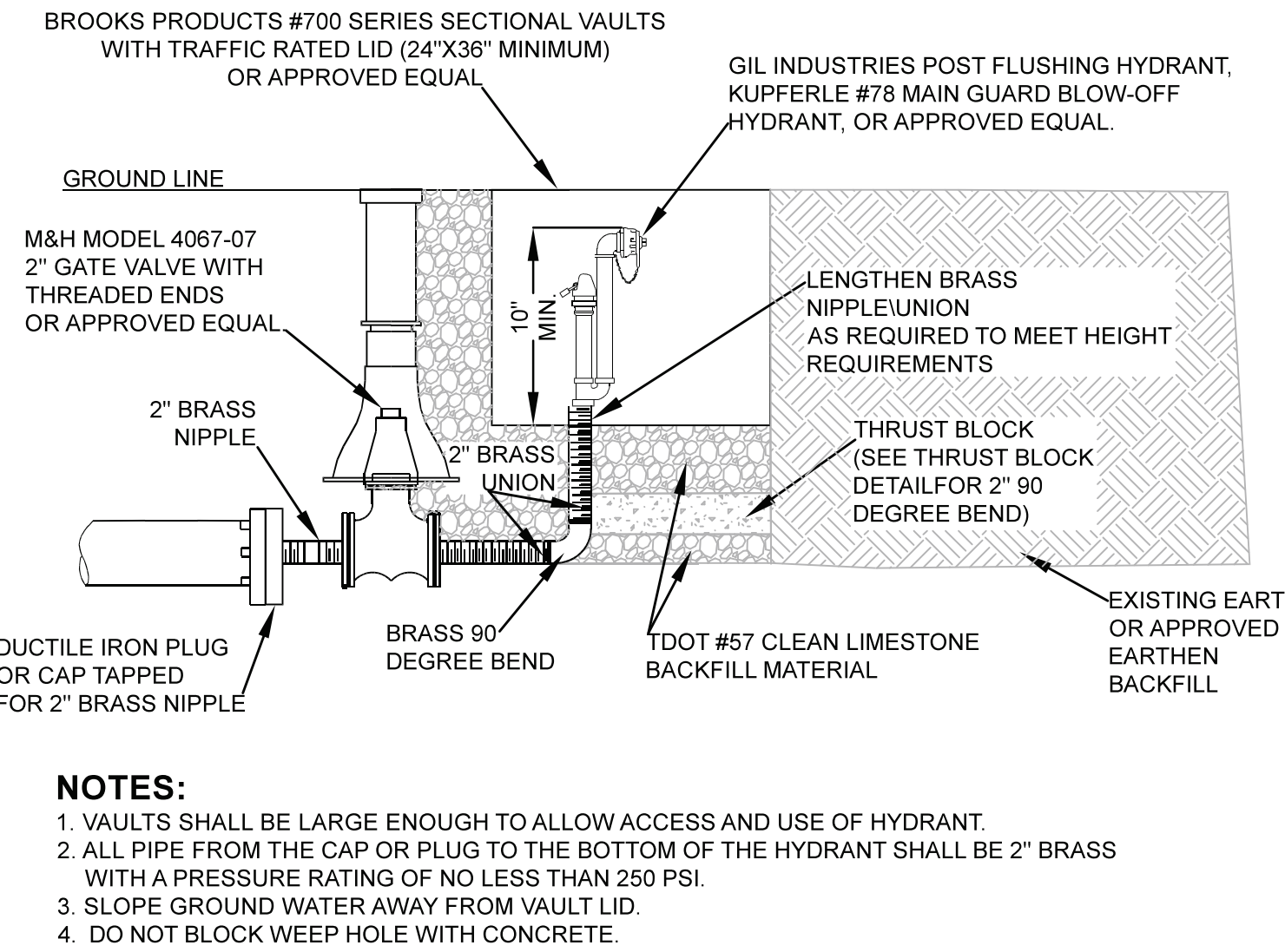
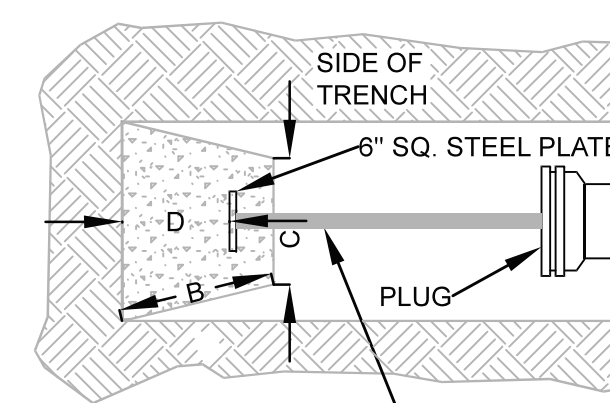
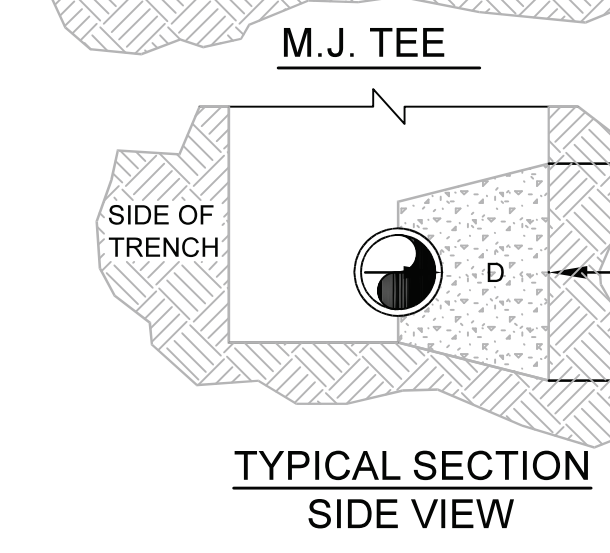
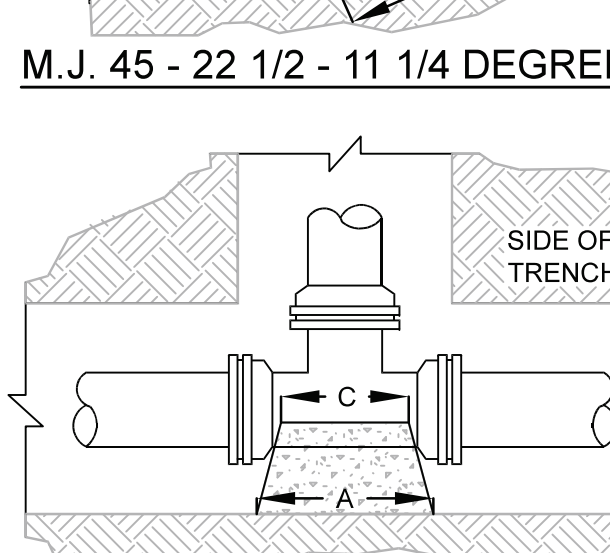
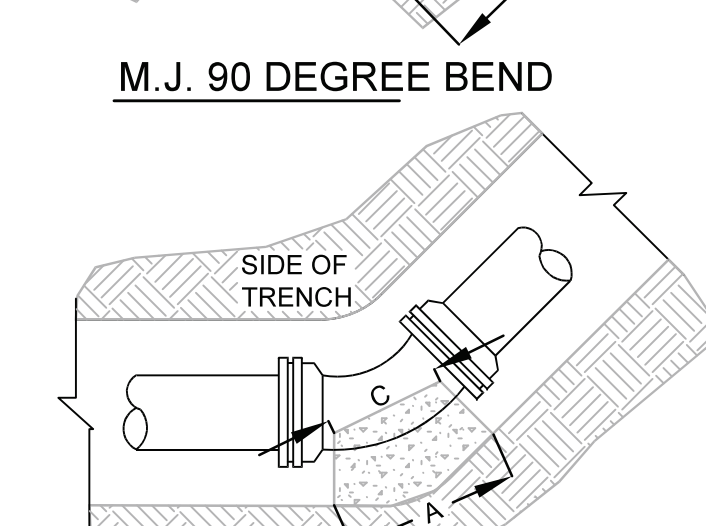
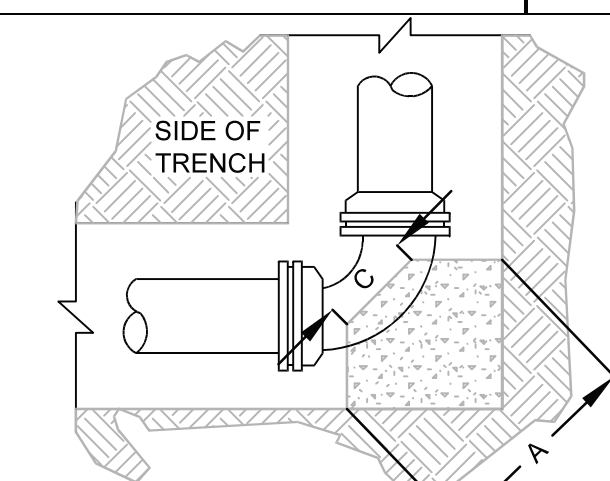
11-1/4 DEGREE BEND							
SIZE	2"	4"	6"	8"	10"	12"	18"
A	9"	9"	11"	13"	16"	18"	30"
B	9"	9"	11"	13"	16"	18"	30"
C	8"	8"	10"	12"	14"	16"	15"
D	4"	4"	5"	6"	8"	9"	16"

TEE							
SIZE	2"	4"	6"	8"	10"	12"	18"
Main	2"- 6"	8"- 12"	8"- 10"	12"	12"	12"	18"
Branch	2"- 6"	2"- 6"	8"- 10"	2"- 6"	8"- 10"	12"- 16"	18"
A	26"	26"	43"	26"	43"	52"	70"
B	26"	26"	43"	26"	43"	52"	70"
C	12"	12"	12"	12"	12"	12"	30"
D	13"	13"	21"	13"	21"	26"	24"

PLUG							
SIZE	2"	4"	6"	8"	10"	12"	18"
A	26"	26"	26"	34"	43"	52"	70"
B	26"	26"	26"	34"	43"	52"	70"
C	12"	12"	12"	12"	12"	12"	30"
D	11"	11"	11"	15"	22"	32"	32"

- NOTES:**
- PIPE AND FITTINGS SHALL BE WRAPPED IN 5 MIL. PLASTIC WHERE THRUST BLOCKS ARE INSTALLED.
 - PLASTIC LINING SHALL NOT COVER OR IMPAIR THE FLOW OF WATER FROM THE WEEP HOLE ON A FIRE HYDRANT OR BLOW OFF HYDRANT ASSEMBLY.
 - 2500 PSI (MINIMUM) CONCRETE SHALL BE USED FOR THRUST BLOCKS.
 - THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH OR ROCK.

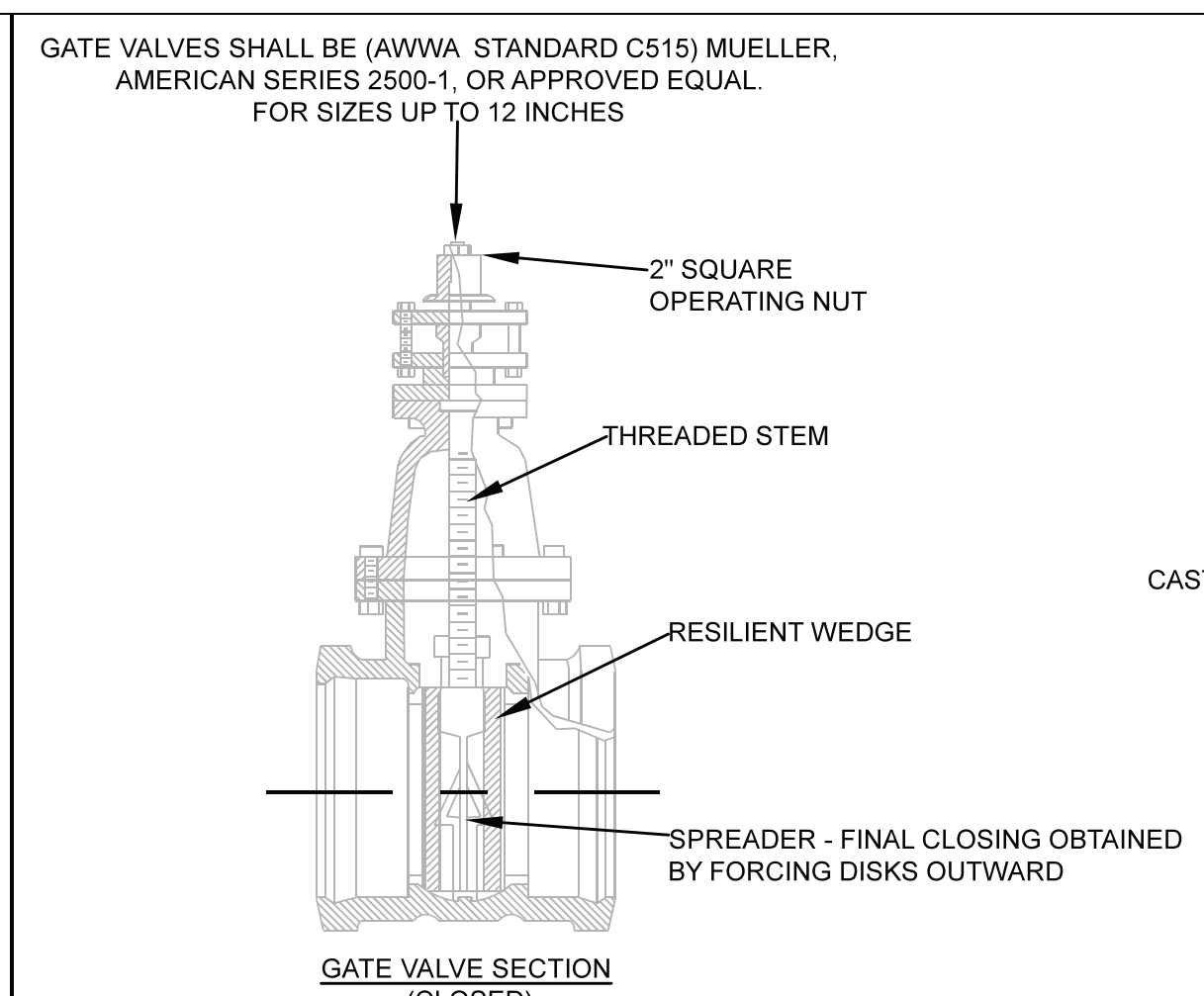
THRUST BLOCK DETAILS & DIMENSIONS
NOT TO SCALE



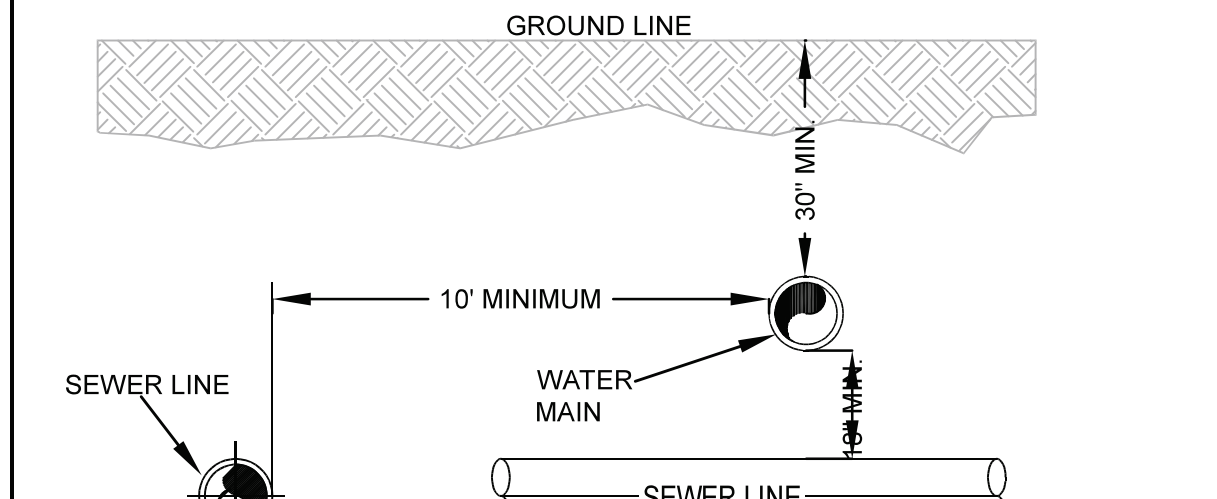
- NOTES:**
- VAULTS SHALL BE LARGE ENOUGH TO ALLOW ACCESS AND USE OF HYDRANT.
 - ALL PIPE FROM THE CAP OR PLUG TO THE BOTTOM OF THE HYDRANT SHALL BE 2" BRASS WITH A PRESSURE RATING OF NO LESS THAN 250 PSI.
 - SLOPE GROUND WATER AWAY FROM VAULT LID.
 - DO NOT BLOCK WEEP HOLE WITH CONCRETE.

SEE VALVE AND VALVE BOX DETAIL FOR INSTALLATION REQUIREMENTS

HIDDEN BLOW-OFF HYDRANT ASSEMBLY
NOT TO SCALE

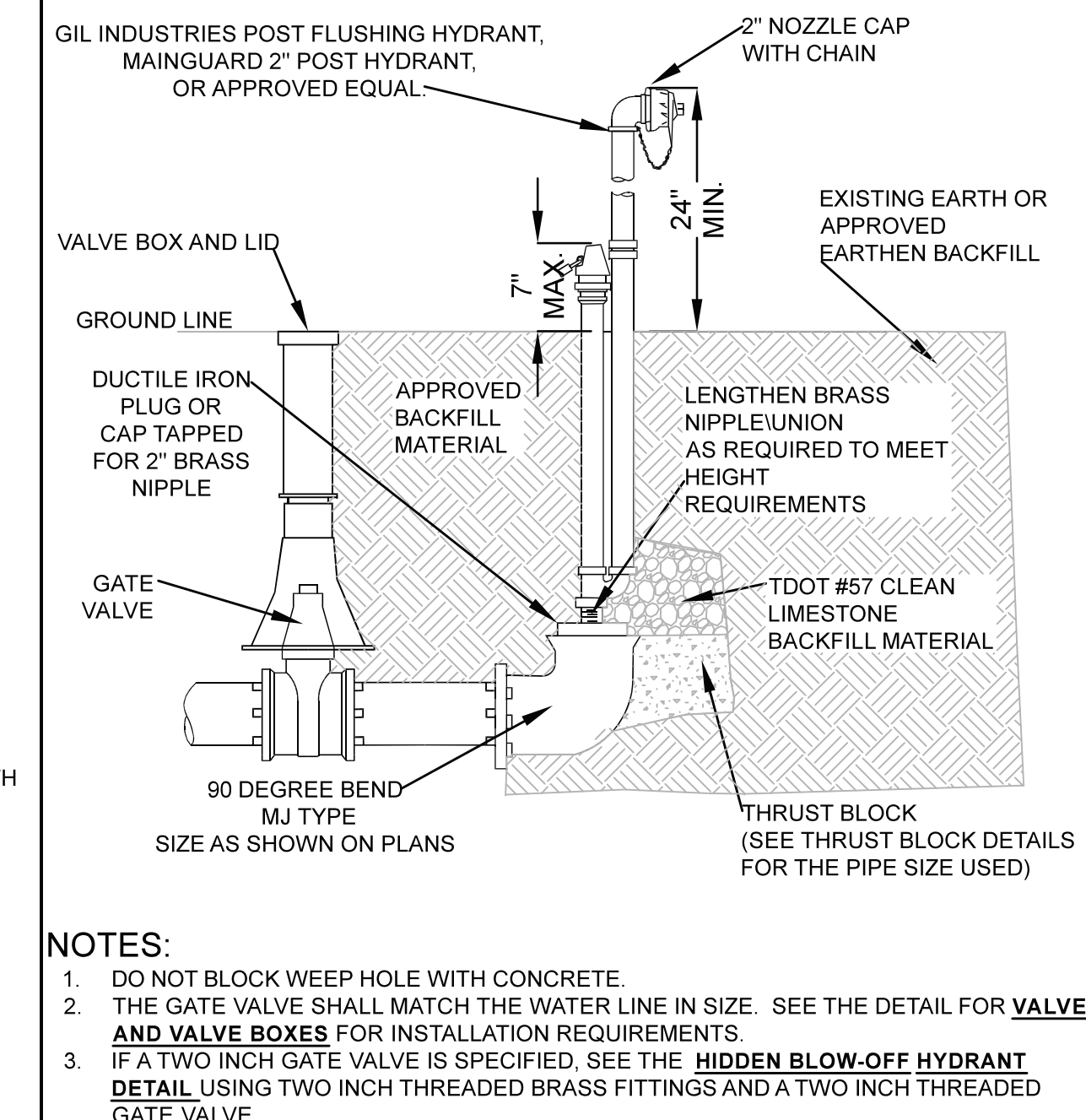


- NOTES:**
- GATE VALVES SHALL BE (AWWA STANDARD C515) MUELLER, AMERICAN SERIES 2500-1, OR APPROVED EQUAL. FOR SIZES UP TO 12 INCHES.
 - TAPPING SLEEVES SHALL BE MUELLER H-615 OR APPROVED EQUAL.
 - TAPPING VALVES SHALL BE MUELLER T-2360-16, AMERICAN SERIES 2500-1, OR APPROVED EQUAL. FOR SIZES UP TO 12 INCHES.
 - BUTTERFLY VALVES SHALL BE USED FOR SIZES 14 INCHES OR LARGER, MUELLER H-667 FOR 14 INCH THROUGH 24 INCH OR APPROVED EQUAL.
 - WHENEVER A WATER VALVE IS ADJACENT TO A TEE IN THE WATER LINE THE WATER VALVE SHALL BE ATTACHED TO THE TEE USING RODDING OR ALL THREAD.
 - ALL GATE VALVES SHALL BE RESILIENT WEDGE TYPE.
 - ALL VALVES SHALL HAVE A 18 X 18 X 4 (MIN) CONCRETE PAD AROUND THE VALVE BOX. 2500 PSI CONCRETE (MINIMUM) SHALL BE USED FOR PAD/COLLAR.
 - THE VALVE BOX AND LID SHALL BE INCLUDED IN THE PRICE OF THE VALVE.



- NOTE:**
- IF THE SEWER MAIN OR SEWER SERVICE LINE CROSSES ON TOP OF THE WATER MAIN IT SHALL BE ENCASED A MINIMUM OF 5' ON EACH SIDE OF THE WATER MAIN. ALTERNATE CASING PIPE TYPES (STEEL, PVC, HDPE, DIP ETC) ARE ALLOWED ON CITY STREETS AND COUNTY ROADS, BUT THEY MUST BE PRE-APPROVED IN WRITING BY THE CITY ENGINEERING DEPARTMENT PRIOR TO BEING INSTALLED IN THE TRENCH. THE CASING PIPE SHALL MEET OR EXCEED THE WALL THICKNESS AND PSI RATING OF PVC SDR 21 (CLASS 200) PIPE.

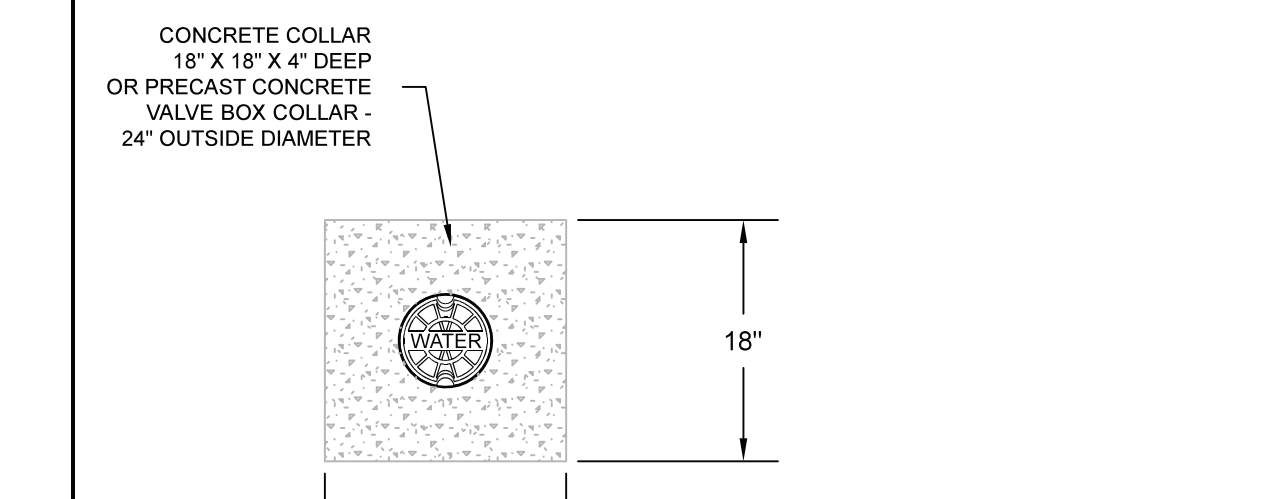
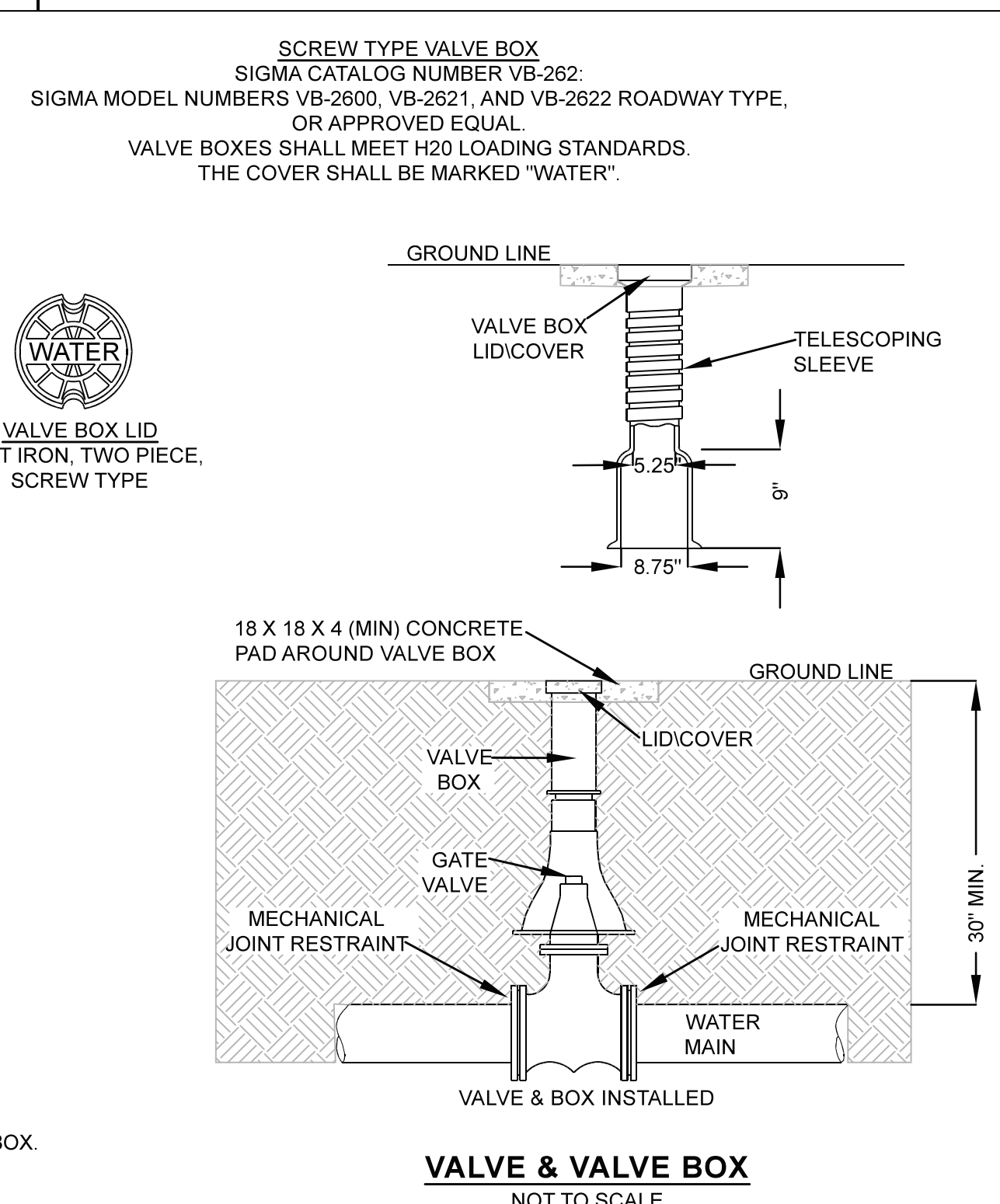
SEPARATION OF PIPED UTILITIES
NOT TO SCALE



- NOTES:**
- DO NOT BLOCK WEEP HOLE WITH CONCRETE.
 - THE GATE VALVE SHALL MATCH THE WATER LINE IN SIZE. SEE THE DETAIL FOR VALVE AND VALVE BOXES FOR INSTALLATION REQUIREMENTS.
 - IF A TWO INCH GATE VALVE IS SPECIFIED, SEE THE HIDDEN BLOW-OFF HYDRANT DETAIL USING TWO INCH THREADED BRASS FITTINGS AND A TWO INCH THREADED GATE VALVE.

SEE VALVE AND VALVE BOX DETAIL FOR INSTALLATION REQUIREMENTS

BLOW-OFF HYDRANT ASSEMBLY
NOT TO SCALE



- NOTE:**
- PRECAST CONCRETE VALVE BOX COLLAR WITH A 24 INCH OUTSIDE DIAMETER IS APPROVED EQUAL.
- CONCRETE COLLARS TO BE INSTALLED AROUND VALVE BOXES LOCATED OUTSIDE OF PAVED AREAS UNLESS NOTED OTHERWISE ON THE PLANS.

CONCRETE VALVE BOX COLLAR
NOT TO SCALE

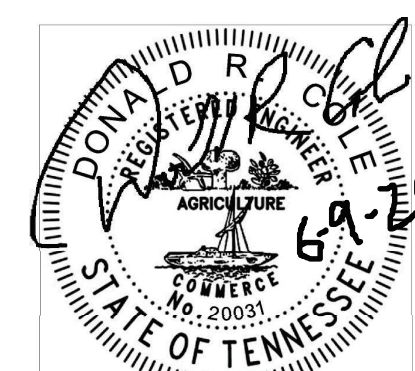
CITY OF CROSSVILLE ENGINEERING DEPARTMENT
392 N MAIN ST
CROSSVILLE, TN 38655
PHONE: (931) 484-5113
FAX: (931) 484-7713

DETAIL SHEET WATER - CITY OF CROSSVILLE

NO.	DATE	REVISION DESCRIPTION

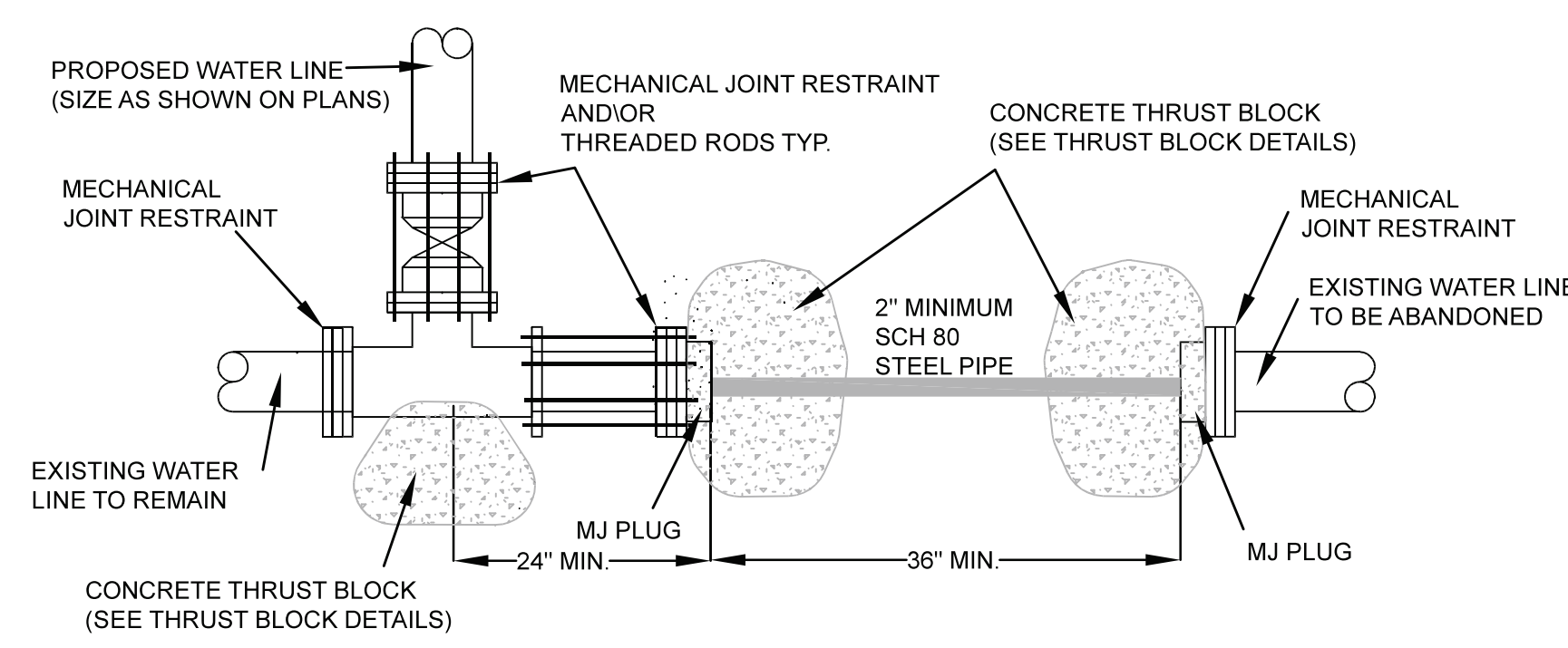
FILE NAME:
DETAIL SHEET GRAVITY SEWER
DRAWN BY: DRC
CHECKED BY: TB
DATE: 4/2026
PROJECT NO.:

SHEET NO. 1 OF 5
SHEET TITLE
DETAIL SHEET



MJ TYPE FITTINGS SHALL HAVE MECHANICAL JOINT RESTRAINTS AND/OR THREADED RODS TO SECURE THE FITTINGS, APPURTENANCES, AND PIPING TOGETHER.

WHERE TAPPING TEES AND TAPPING VALVES ARE INSTALLED THE CONNECTION AND ABANDON DETAIL NOT ADJACENT TO MJ FITTING SHALL BE USED

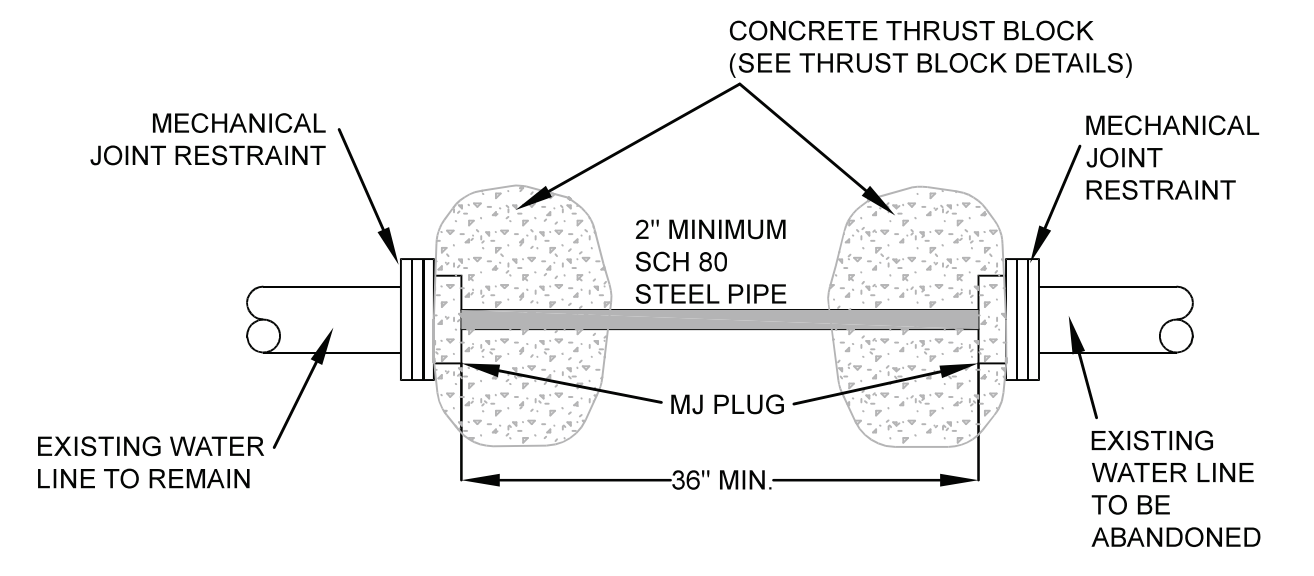


NOTE:
ALL ITEMS SHOWN SHALL BE INCLUDED IN THE PRICE OF CONNECTION TO EXISTING WATER LINE INCLUDING LABOR.

MJ TEE & VALVE CONFIGURATION SHOWN TYPICAL FOR STANDARD MJ TEE OR MJ FITTING INSTALLATION

**CONNECTION TO EXISTING WATER LINE AND ABANDONED
DETAIL ADJACENT TO A MJ FITTING**
NOT TO SCALE

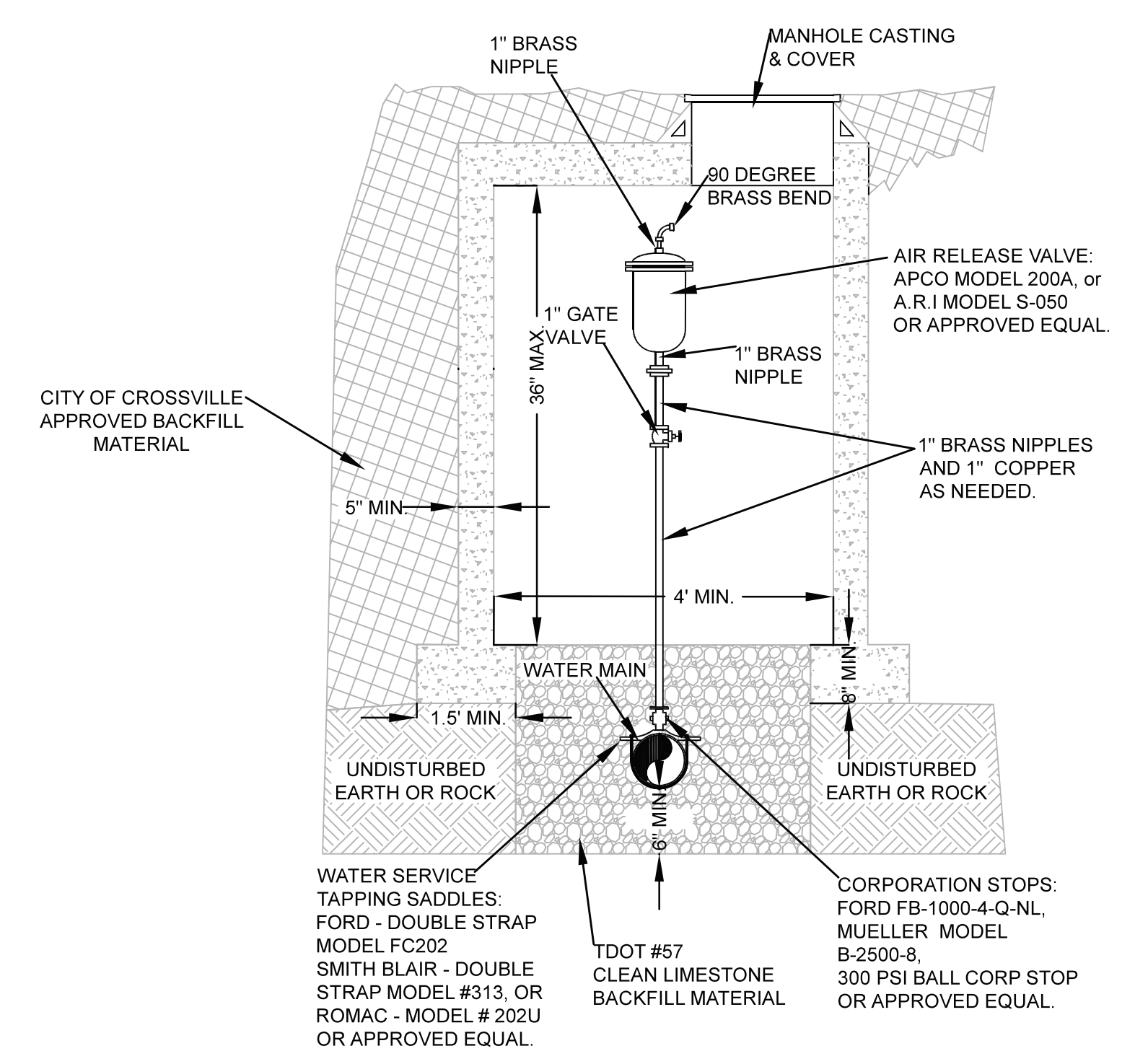
NOTE:
4" SOLID CONCRETE CAP BLOCKS MAY BE USED INSTEAD OF THE 2" SCHEDULE 80 STEEL PIPE UPON APPROVAL BY THE CITY OF CROSSVILLE ENGINEERING DEPARTMENT.



NOTE:
ALL ITEMS SHOWN SHALL BE INCLUDED IN THE PRICE OF CONNECTION TO EXISTING WATER LINE INCLUDING LABOR.

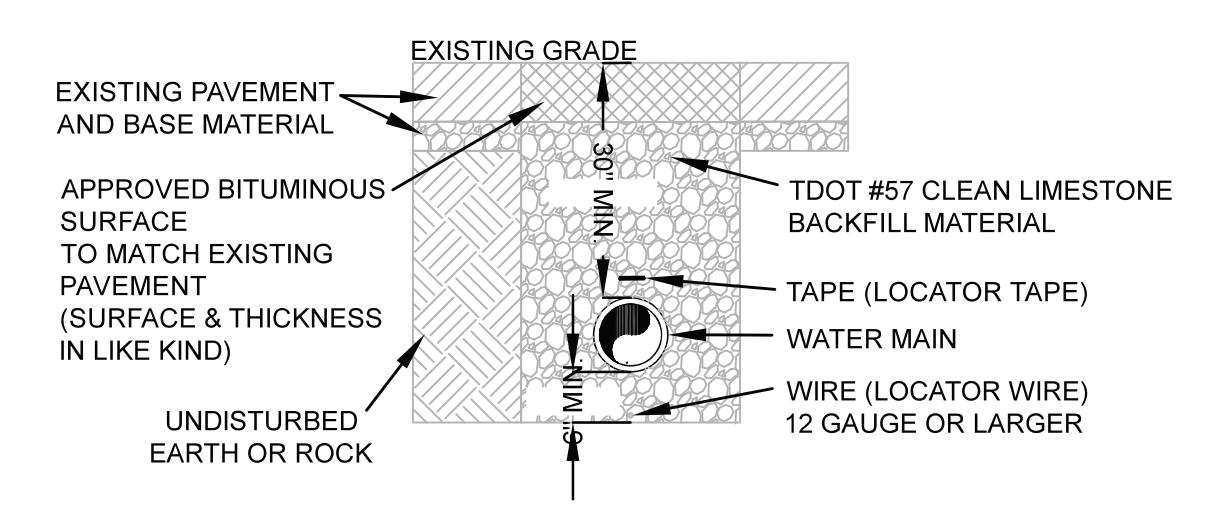
**CONNECTION TO EXISTING WATER LINE AND ABANDONED
DETAIL NOT ADJACENT TO A MJ FITTING**
NOT TO SCALE

USE PRECAST MANHOLE SECTION W/FLAT TOP OR AN APPROVED BOX.
BOXES MUST BE PRE-APPROVED IN WRITING BY THE CITY ENGINEERING DEPARTMENT PRIOR TO INSTALLATION

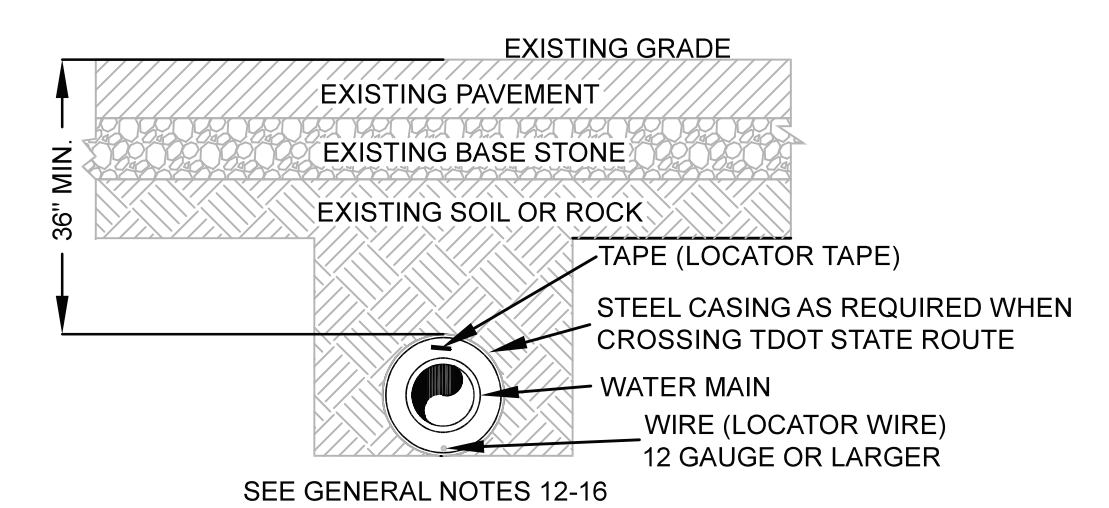


NOTES:
1. A 1" VALVE IS REQUIRED ON 8" AND SMALLER WATER MAINS, & A 2" VALVE IS REQUIRED ON 10" AND LARGER WATER MAINS.
2. SOLID CONCRETE CAP BLOCKS MAY BE USED AT THE BOTTOM OF THE BOX TO ADJUST HEIGHT IF NEEDED.

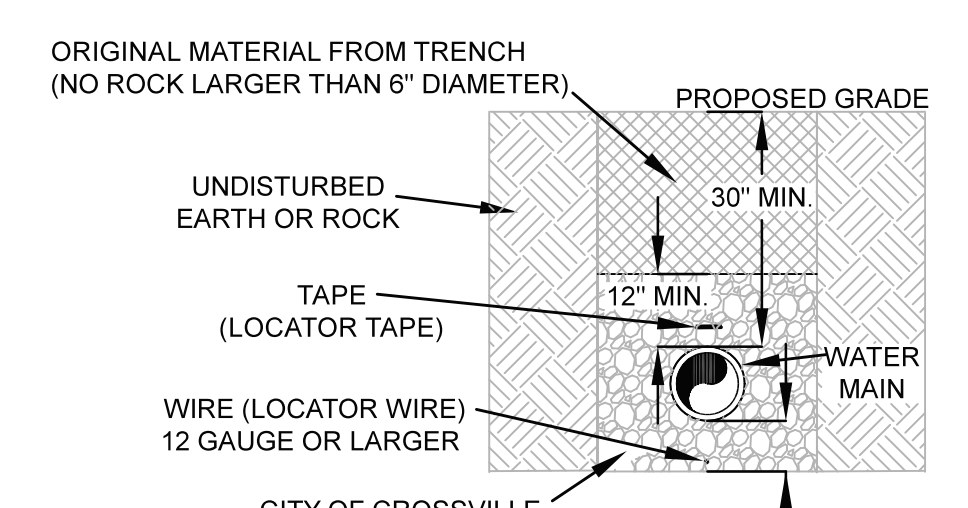
AIR RELEASE VALVE ASSEMBLY
NOT TO SCALE



**INSIDE PAVED AREAS
PAVED PARKING AREAS & DRIVEWAYS**
NOT TO SCALE

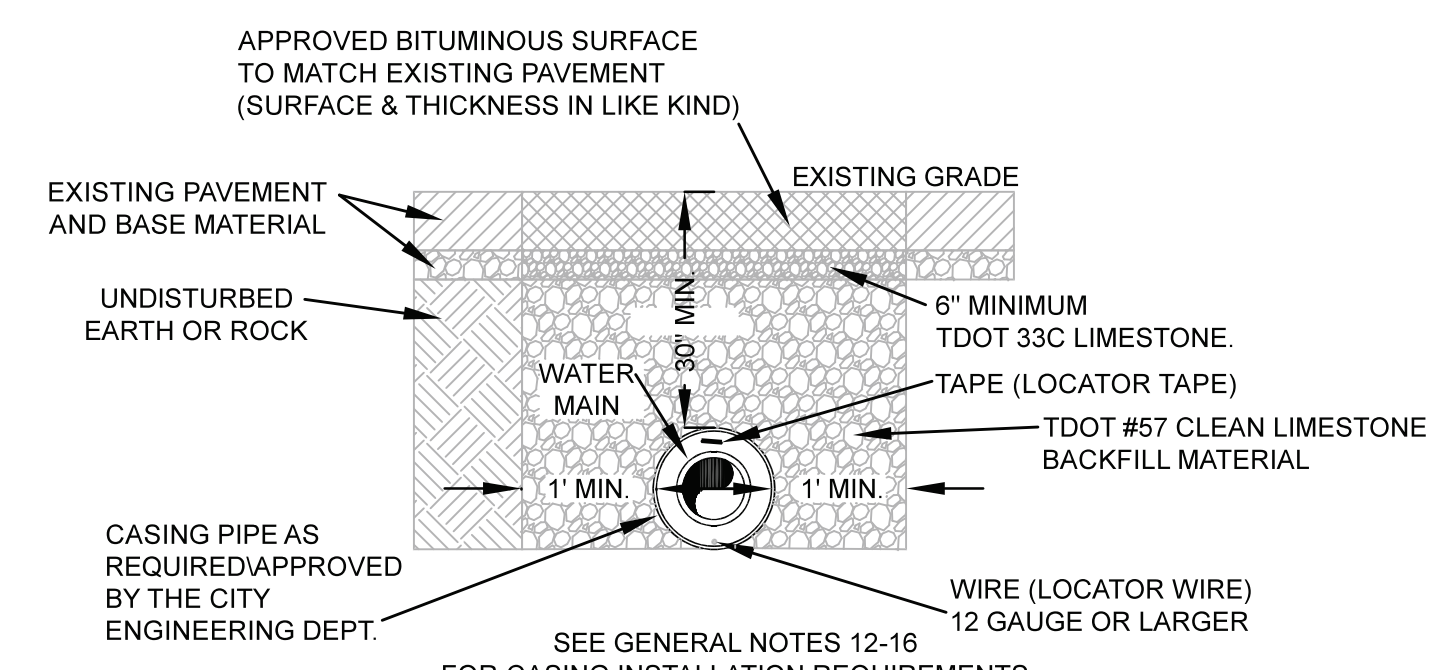


SEE GENERAL NOTES 12-16 FOR CASING INSTALLATION REQUIREMENTS
**ROAD BORE - TDOT STATE ROUTES
CITY STREETS AND COUNTY ROADS**
NOT TO SCALE



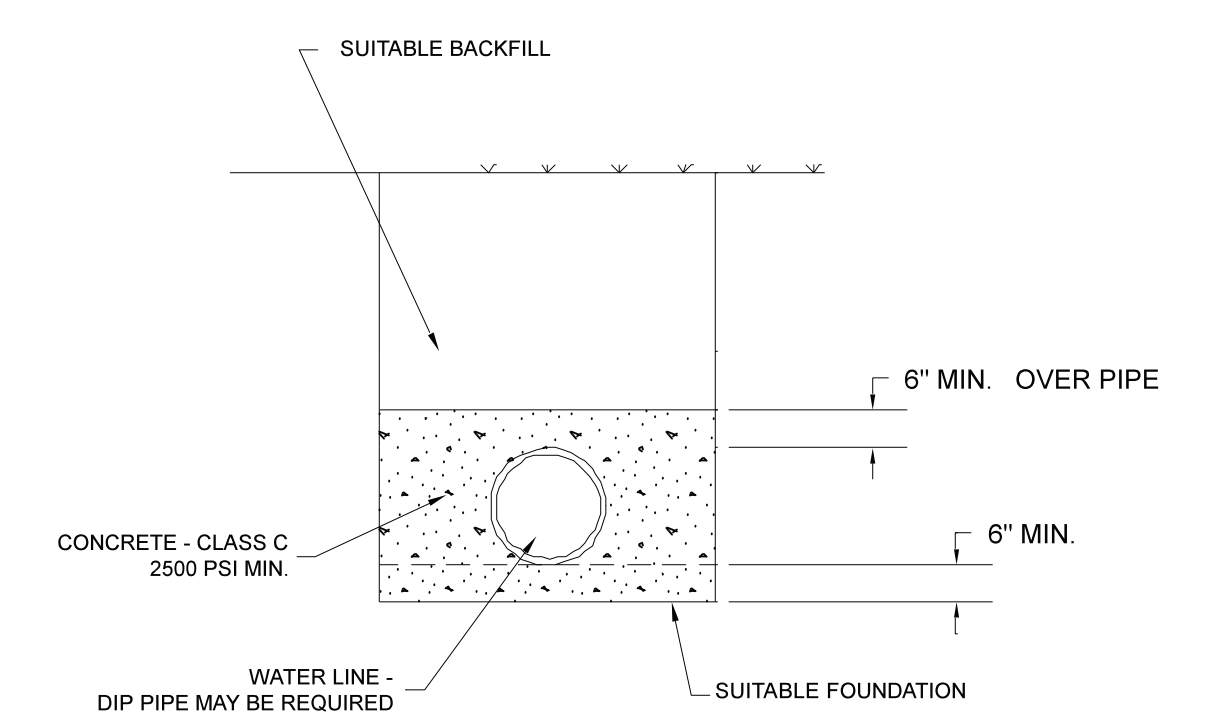
OUTSIDE OF PAVED AREAS - ROCK OR EARTH
NOT TO SCALE

- NOTES:**
- 2" (MINIMUM) WIDTH METALIC LOCATOR TAPE LABELED "WATER" SHALL BE PLACED IN THE TRENCH 6" - 8" ABOVE THE WATER MAIN.
 - LOCATOR WIRE: SHALL BE COLORED BLUE, 12 GAUGE OR LARGER SOLID WIRE, AND BE PLACED IN THE BOTTOM OF THE PIPE TRENCH.
 - ALL BACKFILL MATERIAL MUST BE PRE-APPROVED IN WRITING BY THE CITY ENGINEERING DEPARTMENT PRIOR TO BEING PLACED IN THE TRENCH.
 - ALL WATER MAINS (EXCLUDING THOSE IN A CASING) SHALL HAVE A MINIMUM OF 6" OF BEDDING BELOW, ON EACH SIDE IN SOIL (WITH A MINIMUM OF 12" ON EACH SIDE IN ROCK), AND 12" OF BEDDING ABOVE THE WATER MAIN. ALL BEDDING MATERIAL SHALL BE FREE OF ROCK LARGER THAN 2" DIAMETER AND ORGANIC DEBRIS, AND SHALL BE INSTALLED IN 6" WELL COMPACTED LIFTS. NO ROCK LARGER THAN 6" IN DIAMETER SHALL BE USED AS BACKFILL IN THE REMAINDER OF THE TRENCH.
 - TRENCH WIDTHS (WHERE ROCK IS ENCOUNTERED DURING EXCAVATION) SHALL BE A MINIMUM WIDTH OF 2' PLUS THE DIAMETER OF THE WATER MAIN.
 - BITUMINOUS COATED STEEL CASINGS ARE REQUIRED WHEN CROSSING STATE ROUTES. (36" MINIMUM DEPTH)
 - ALTERNATE CASING PIPE TYPES (PVC, HDPE, DIP, ETC) ARE ALLOWED ON CITY STREETS AND COUNTY ROADS. BUT THEY MUST BE PRE-APPROVED IN WRITING BY THE CITY ENGINEERING DEPARTMENT PRIOR TO BEING INSTALLED IN A TRENCH OR BORE.



SEE GENERAL NOTES 12-16 FOR CASING INSTALLATION REQUIREMENTS
**BITUMINOUS SURFACE OPEN-CUT
CITY STREET OR COUNTY ROAD**
NOT TO SCALE

TRENCH AND BACKFILL DETAIL
NOT TO SCALE



**CONCRETE ENCASMENT
STREAM OR DITCH CROSSINGS**
NTS

NOTE: VALVE ON BOTH SIDES OF STREAM OR DITCH CROSSING MAY BE REQUIRED.

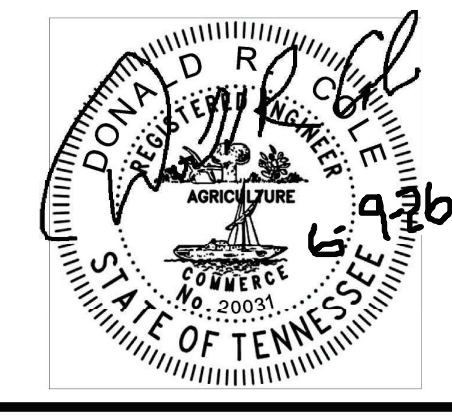
**CITY OF CROSSVILLE
ENGINEERING DEPARTMENT**
392 N MAIN ST
CROSSVILLE, TN 38655
PHONE: (931) 484-5113
FAX: (931) 484-7713

**DETAIL SHEET
WATER - CITY OF CROSSVILLE**

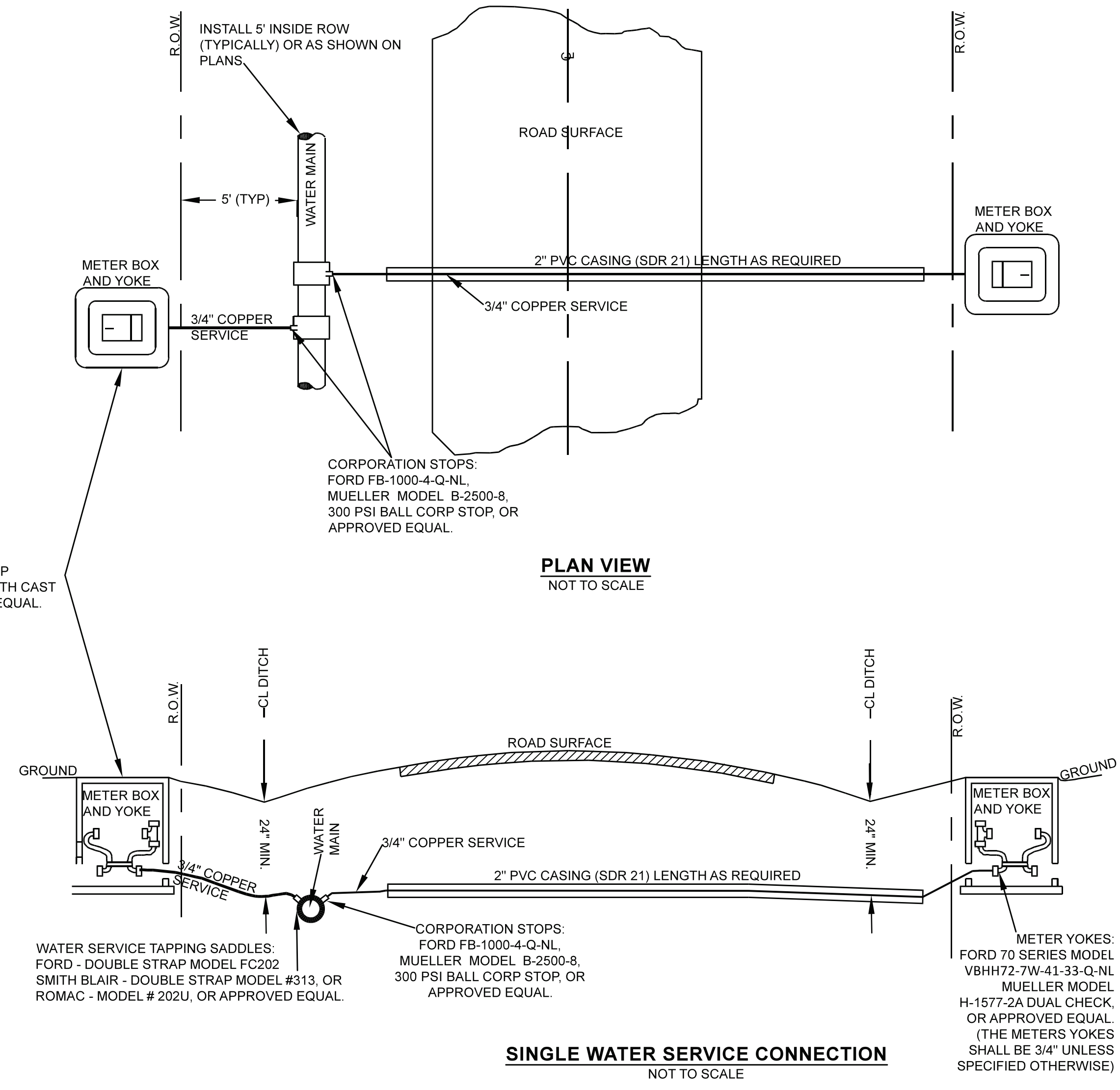
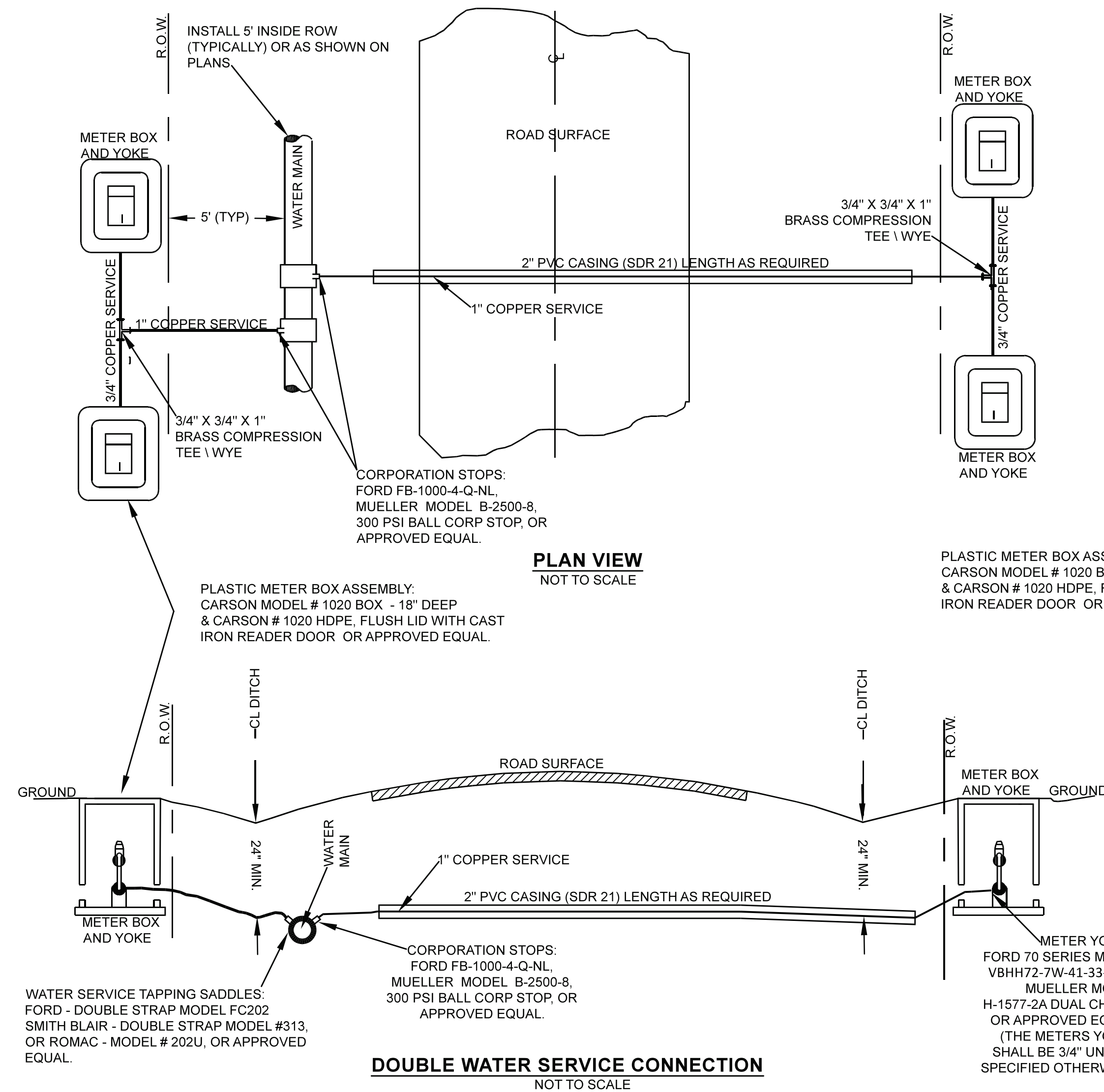
NO.	DATE	REVISION DESCRIPTION

FILE NAME:
DETAIL SHEET
GRAVITY SEWER
DRAWN BY: DRC
CHECKED BY: TB
DATE: 4/2026
PROJECT NO.:

SHEET NO.
2 OF 5
SHEET TITLE
DETAIL SHEET



DETAIL SHEET
WATER - CITY OF CROSSVILLE



NOTES:

1. WATER SERVICE LINE CASINGS SHALL EXEND A MINIMUM OF 5' PAST THE CENTER LINE OF THE DITCH OR THE TOE OF THE SLOPE. WHERE THE WATER MAIN IS CLOSER THAN 5' TO THE DITCH OR TOE OF SLOPE THE CASING SHALL BE WITHIN 2' OF THE WATER MAIN.
2. ON CURB AND GUTTER STREETS THE CASING SHALL EXTEND A MINIMUM OF 3' BEHIND THE BACK OF THE CURBS OR THE RIGHT OF WAY SIDE OF THE SIDEWALKS.
3. ALL WATER SERVICES EXTENDING UNDER ROADWAYS SHALL BE IN CASINGS AS SHOWN.
4. ALL CASINGS SHALL BE A MINIMUM OF 36" DEEP FROM TOP OF THE CASING PIPE TO CENTER LINE OF THE DITCH ON STATE ROUTES.
5. ALL COPPER SERVICE TUBING SHALL BE TYPE K.
6. THE CASING PIPE SHALL MEET OR EXCEED THE WALL THICKNESS AND PSI RATING OF PVC SDR 21 (CLASS 200) PIPE.
7. ANY WATER SERVICE LINE GREATER THAN 1 INCH TO BE HDPE (IPS - OD CONTROLLED).

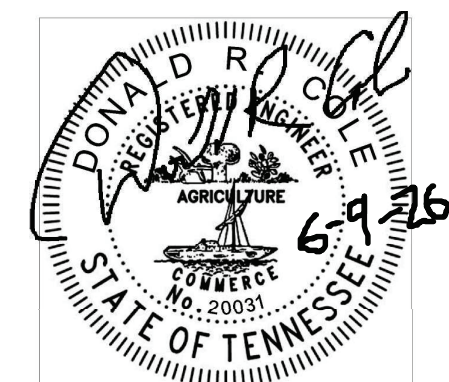
CITY OF CROSSVILLE UTILITY AREA ONLY
SERVICE CONNECTION DETAIL
 NOT TO SCALE

NO.	DATE	REVISION DESCRIPTION

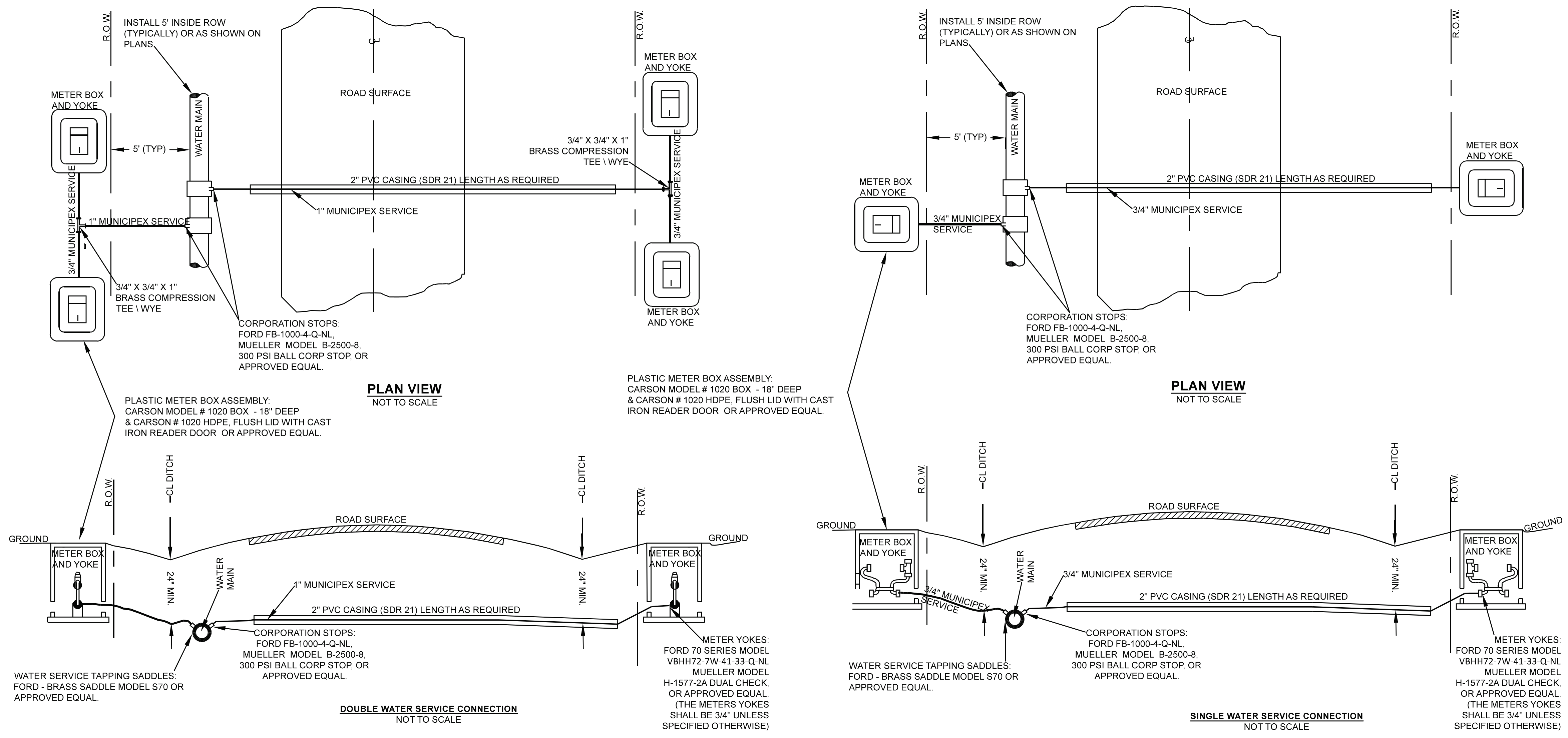
FILE NAME:
 DETAIL SHEET
 GRAVITY SEWER
 DRAWN BY: DRC
 CHECKED BY: TB
 DATE: 4/2026
 PROJECT NO.:

SHEET NO.
 3 OF 5

SHEET TITLE
 DETAIL SHEET



DETAIL SHEET
WATER - CITY OF CROSSVILLE



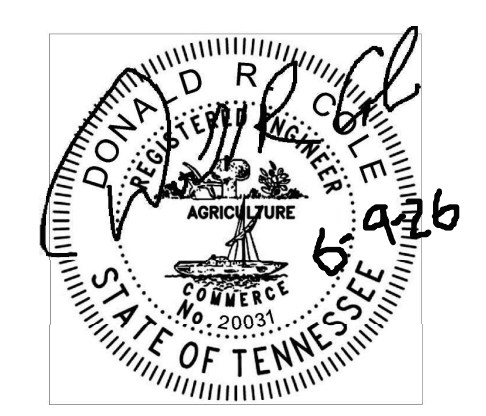
- WATER SERVICE NOTES:**
1. WATER SERVICE LINE CASINGS SHALL EXTEND A MINIMUM OF 5' PAST THE CENTER LINE OF THE DITCH OR THE TOE OF THE SLOPE. WHERE THE WATER MAIN IS CLOSER THAN 5' TO THE DITCH OR TOE OF SLOPE THE CASING SHALL BE WITHIN 2' OF THE WATER MAIN.
 2. ON CURB AND GUTTER STREETS THE CASING SHALL EXTEND A MINIMUM OF 3' BEHIND THE BACK OF THE CURBS.
 3. ALL WATER SERVICES EXTENDING UNDER ROADWAYS SHALL BE ENCASED AS REQUIRED.
 4. ALL CASINGS SHALL BE A MINIMUM OF 36" DEEP FROM TOP OF THE CASING PIPE TO CENTER LINE OF THE DITCH ON STATE ROUTES.
 5. TRACER WIRE AND LOCATOR TAPE SHALL BE INSTALLED FOR ALL WATER SERVICE STREET/ROAD/HIGHWAY CROSSINGS WHICH ARE INSTALLED BY THE OPEN CUT METHOD.
 6. THE CASING PIPE SHALL MEET OR EXCEED THE WALL THICKNESS AND PSI RATING OF PVC SDR 21 (CLASS 200) PIPE.
 7. ALL SERVICE TUBING SHALL BE MUNIPEX CLASS 200
 8. WHEN UNDERGROUND ELECTRIC SERVICE OR MAIN LINES ARE INSTALLED AT THE PROPERTY LINE, WATER SERVICES SHALL BE INSTALLED IN THE CENTER OF THE LOT.

CATOOSA UTILITY DISTRICT ONLY UTILITY AREA ONLY
SERVICE CONNECTION DETAIL
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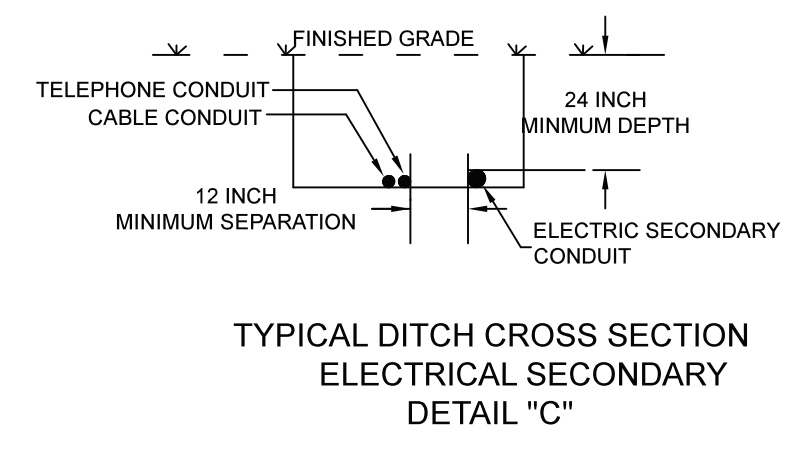
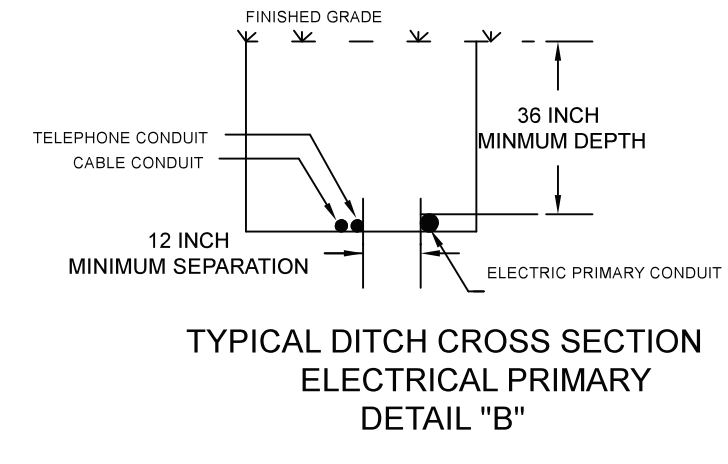
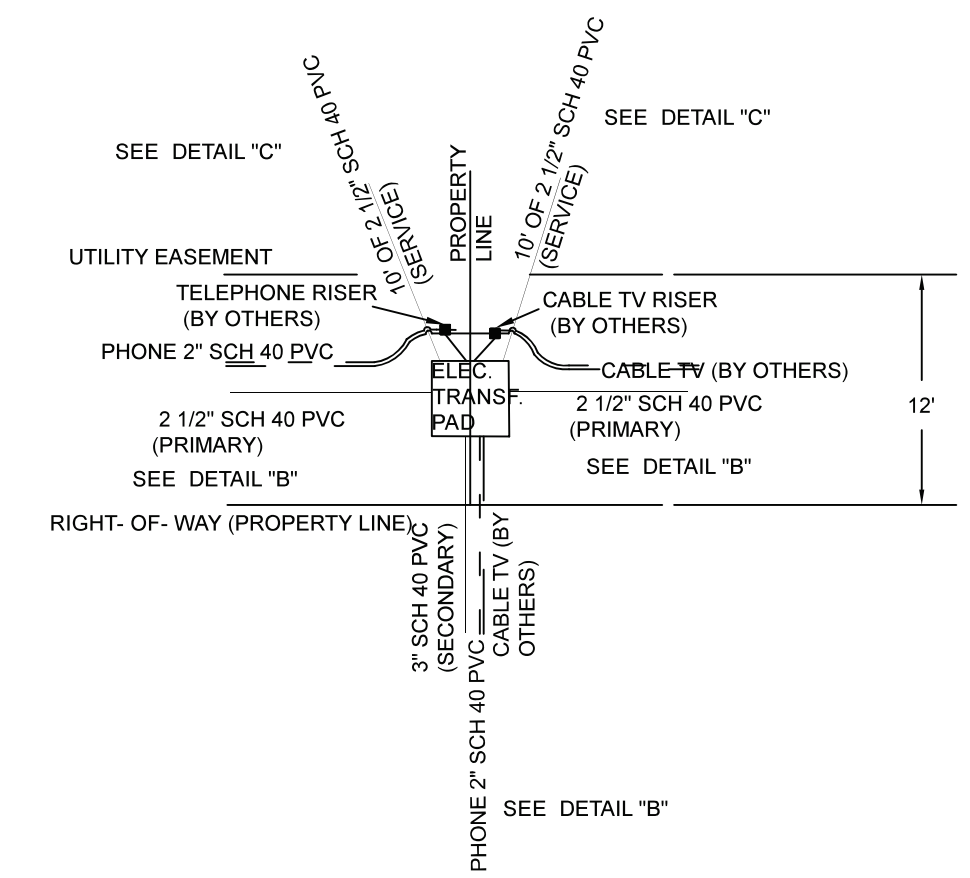
FILE NAME:
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SHEET NO.
4 OF 5
SHEET TITLE
DETAIL SHEET

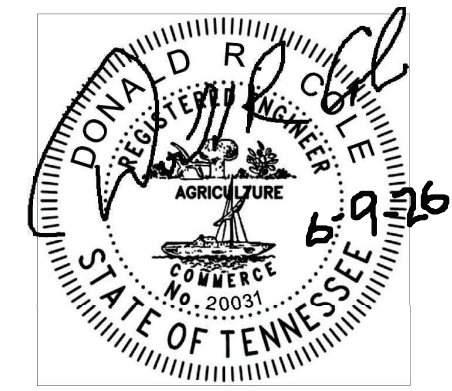
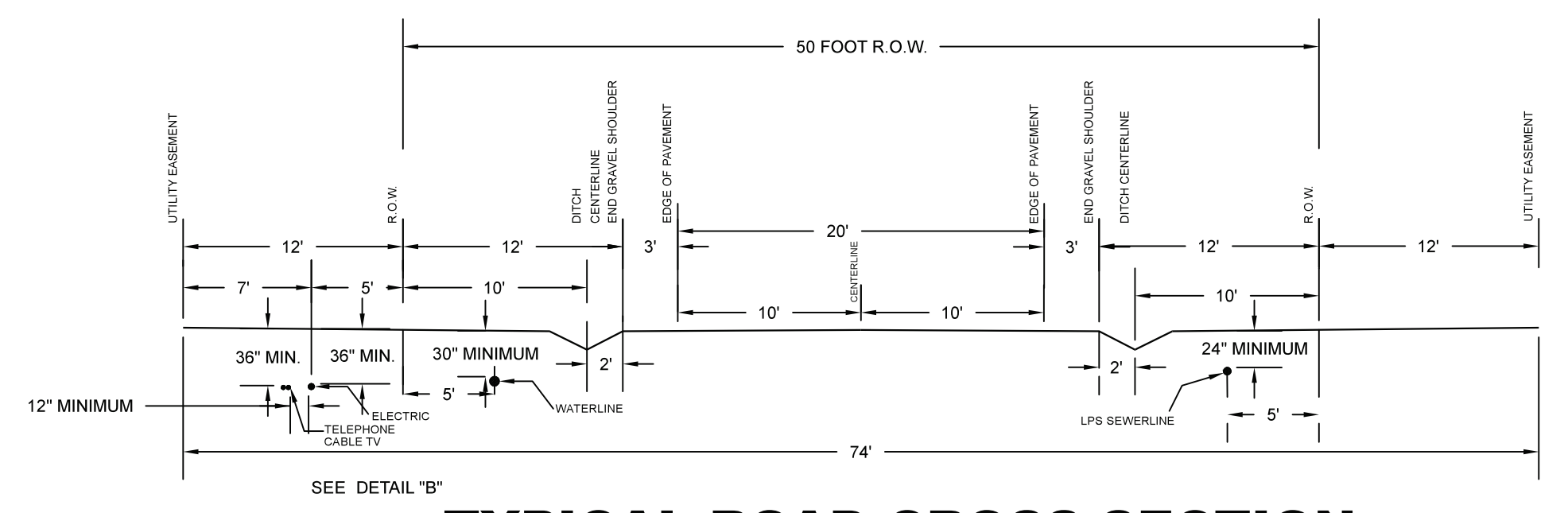
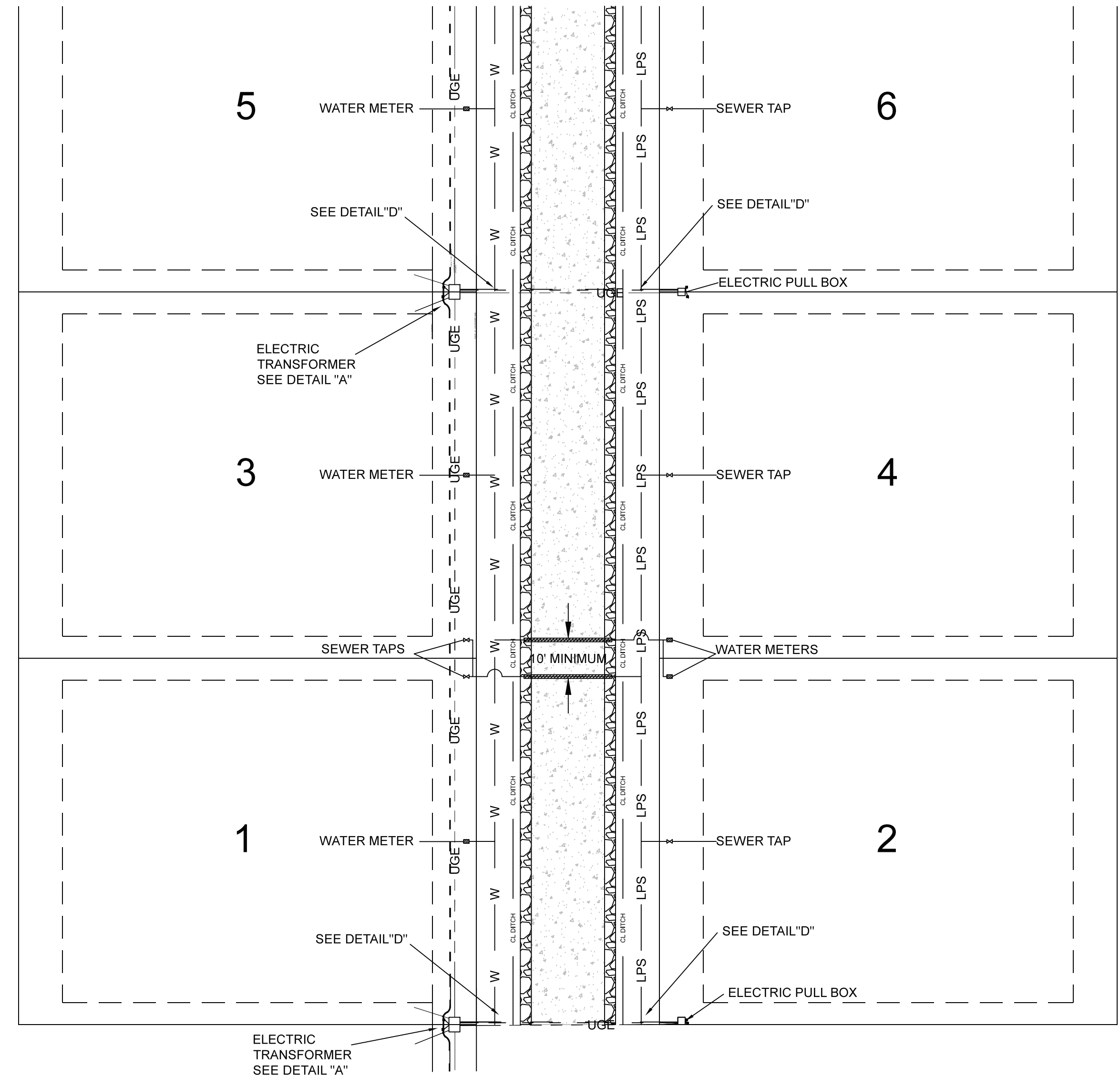
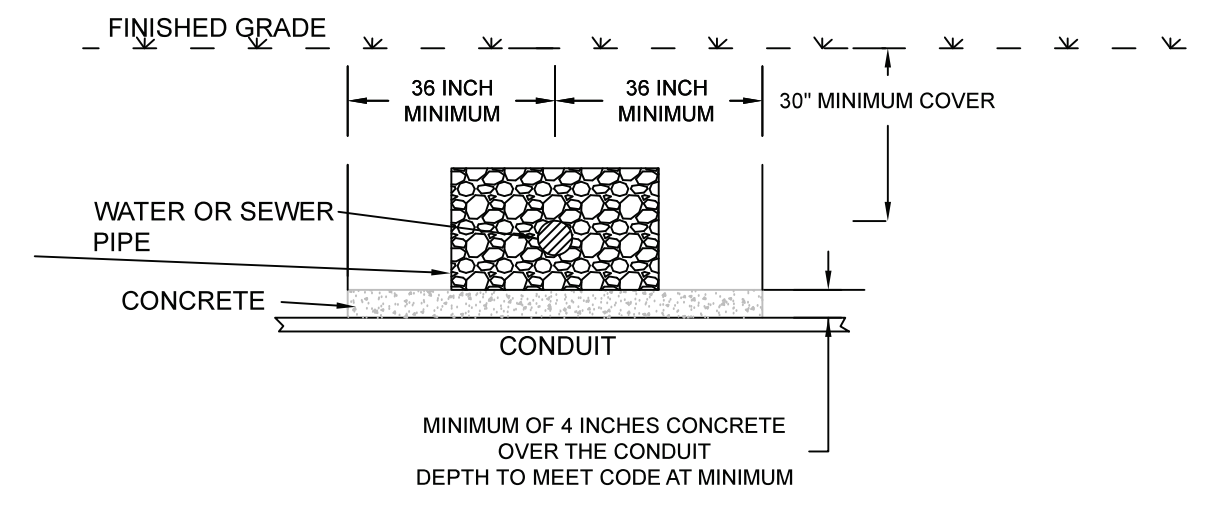


DETAIL SHEET
WATER - CITY OF CROSSVILLE

NOTES:
 ELECTRICAL PRIMARY SHALL BE INSTALLED OFF THE R.O.W. IN THE UTILITY EASEMENT AND THE WATER DISTRIBUTION LINE SHALL BE INSTALLED ON THE SAME SIDE OF THE ROAD IN THE R.O.W. WITH A TEN FOOT SEPARATION FROM THE ELECTRICAL PRIMARY ALL WATER TAPS ON THIS SIDE OF THE ROAD SHALL BE INSTALLED IN THE CENTER OF EACH LOT AS SHOWN. ON THE OPPOSITE SIDE OF THE ROAD THE LOW PRESSURE SEWER SHALL BE INSTALLED IN THE R.O.W. WITH THE TAPS LOCATED IN THE CENTER OF THE LOTS.



A MINIMUM OF 6 INCHES OF BEDDING SHALL BE INSTALLED BETWEEN THE TOP OF THE CONCRETE AND THE BOTTOM OF THE PIPE AND A MINIMUM OF 1 FOOT OF BEDDING ON EACH SIDE AND TOP OF THE PIPE



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 5 OF 5
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