BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2555 WEST COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0745 FAX: 954-831-0928 | **STANDARD DETAIL**

811 Know what's below. Call before you dig.

1. PRIOR TO BEGINNING ANY WORK, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES THAT HAVE FACILITIES WITHIN THE PROJECT AREA.
2. THE ABOVE NOTICE SHALL APPEAR ON THE COVER SHEET OF ALL CONSTRUCTION PLANS SUBMITTED TO THIS COUNTY.

REPLACES FORMER DWG NO.101	UTILITY LOCATES	FIGURE 101
REVISED 5/14/2018		

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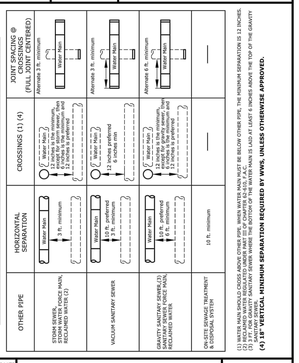
WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314



(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LESS AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(4) **18" VERTICAL MINIMUM SEPARATION REQUIRED BY RWS, UNLESS OTHERWISE APPROVED.**

REPLACES FORMER DWG NO.105	WATER MAIN SEPARATION	FIGURE 105
REVISED 5/14/2018		

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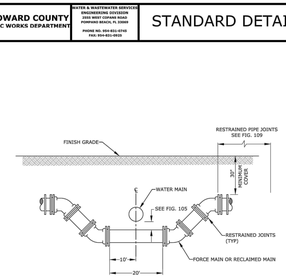

WHEREVER POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS CROSSING SHALL BE USED ONLY WHEN APPROVED BY WWS.

REPLACES FORMER DWG NO.16C	SPECIAL UTILITY CROSSING	FIGURE 107
REVISED 5/14/2018		

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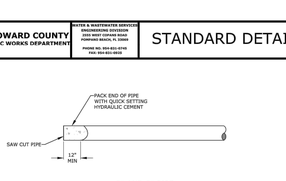

CROSSES SHALL BE RESTRAINED IN ALL DIRECTIONS. FITTINGS AND VALVES NEED TO BE RESTRAINED PER STANDARD DETAILS 109-112, EVEN WHEN THE FITTINGS OR VALVES ARE CUT IN AFTER THE INITIAL PIPE INSTALLATION. ASBESTOS CEMENT PIPE WILL BE REPLACED WITH DUCTILE IRON PIPE AT LEAST THROUGH THE RESTRAINING LENGTH.

DUCTILE IRON PIPE

	HORIZONTAL, L (FEET)						45° VERTICAL OFFSET (FEET)	
Diameter	11 ¼°	22 ½°	45°	90°	Tee or Cross	Valve or Dead End	UPPER	LOWER
4	1	2	4	10	7	20	9	4
6	2	3	6	14	15	28	12	5
8	2	4	8	17	23	37	16	7
10	2	5	9	21	30	44	19	8
12	3	5	10	24	38	52	22	9

PVC PIPE

	HORIZONTAL, L (FEET)						45° VERTICAL OFFSET (FEET)	
Diameter	11 ¼°	22 ½°	45°	90°	Tee or Cross	Valve or Dead End	UPPER	LOWER
4	2	3	5	12	11	32	14	5
6	2	4	7	16	23	45	19	6
8	3	5	9	21	37	59	25	8
10	3	5	11	25	48	71	30	9
12	3	6	12	29	61	83	35	11

THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH THRUST RESTRAINT CALCULATOR V7.2 BY EBAA IRON WITH THE FOLLOWING ASSUMPTIONS:
SOIL CONDITIONS: SW OR GW; NORMAL SIZE EQUALS BRANCH SIZE; LENGTH ALONG RUN EQUALS 4 FEET
LAYING CONDITION: 4; SAND BEDDING, BACKFILL COMPACTED > 80%; VERTICAL LOW SIDE DEPTH EQUALS 3.5 FEET
MINIMUM COVER: 3.0 FT; SAFETY FACTOR: 1.5 BARE PIPE (ND POLY WRAP)
IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY WWS.
FOR PIPE LARGER THAN INCLUDED IN THE ABOVE TABLES, ENGINEER OF RECORD SHALL SUBMIT CALCULATIONS FOR EACH JOINT REQUIRING RESTRAINT.

SINGLE FITTING RESTRAINED JOINT
150 PSI TEST PRESSURE

REPLACES FORMER DWG NO.109	RESTRAINED JOINT REQUIREMENTS SINGLE FITTING	FIGURE 109
REVISED 5/14/2018		

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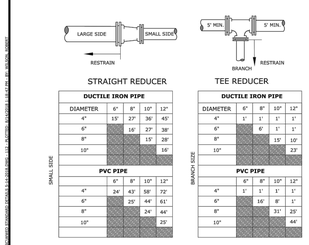

DUCTILE IRON PIPE

SMALL SIDE / DIAMETER	6"	8"	10"	12"
4"	15°	27°	36°	45°
6"		16°	27°	38°
8"			15°	28°
10"				16°

PVC PIPE

SMALL SIDE / DIAMETER	6"	8"	10"	12"
4"	24°	43°	58°	72°
6"		25°	44°	61°
8"			24°	44°
10"				25°

DUCTILE IRON PIPE

BRANCH SIZE / DIAMETER	4"	6"	8"	10"	12"
4"	1°	1°	1°	1°	1°
6"		1°	1°	1°	1°
8"			15°	10°	7°
10"				15°	23°

PVC PIPE

BRANCH SIZE / DIAMETER	4"	6"	8"	10"	12"
4"	1°	1°	1°	1°	1°
6"		1°	16°	8°	1°
8"			31°	23°	16°
10"				44°	32°

THE NOTED REQUIREMENTS WERE CALCULATED IN ACCORDANCE WITH THRUST RESTRAINT CALCULATOR V7.2 BY EBAA IRON WITH THE FOLLOWING ASSUMPTIONS:
SOIL CONDITIONS: SW OR GW; LENGTH ALONG RUN EQUALS 4 FEET
LAYING CONDITION: 4; SAND BEDDING, BACKFILL COMPACTED > 80%
MINIMUM COVER: 3.0 FT; SAFETY FACTOR: 1.5 BARE PIPE (ND POLY WRAP)
IF FIELD CONDITIONS DIFFER FROM THE ABOVE, CONTRACTOR SHALL NOTIFY WWS.
FOR PIPE LARGER THAN INCLUDED IN THE ABOVE TABLES, ENGINEER OF RECORD SHALL SUBMIT CALCULATIONS FOR EACH JOINT REQUIRING RESTRAINT.

RESTRAINED REDUCING FITTING
150 PSI TEST PRESSURE

REPLACES FORMER DWG NO.112	RESTRAINED JOINT REQUIREMENTS REDUCING FITTINGS	FIGURE 112
REVISED 5/14/2018		

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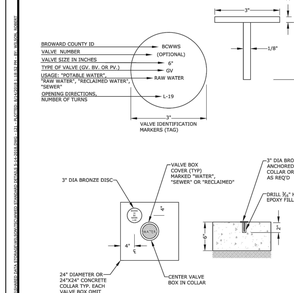

REPLACES FORMER DWG NO.3E	VALVE COLLAR AND IDENTIFICATION MARKER	FIGURE 121
REVISED 5/14/2018		

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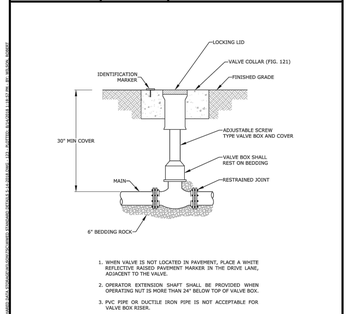

1. WHEN VALVE IS NOT LOCATED IN PAVEMENT, PLACE A WHITE REFLECTIVE RAISED PAVEMENT MARKER IN THE DRIVE LANE, ADJACENT TO THE VALVE.
2. OPERATOR EXTENSION SHAFT SHALL BE PROVIDED WHEN OPERATING NUT IS MORE THAN 24" BELOW TOP OF VALVE BOX.
3. PVC PIPE OR DUCTILE IRON PIPE IS NOT ACCEPTABLE FOR VALVE BOX RISER.

REPLACES FORMER DWG NO.123	VALVE BOX DETAIL	FIGURE 123
REVISED 5/14/2018		

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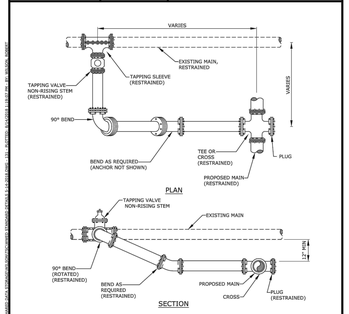

ALL JOINTS TO BE RESTRAINED BY APPROVED METHODS.

REPLACES FORMER DWG NO.131	TYPICAL CONNECTION TO EXISTING MAIN	FIGURE 131
REVISED 5/14/2018		

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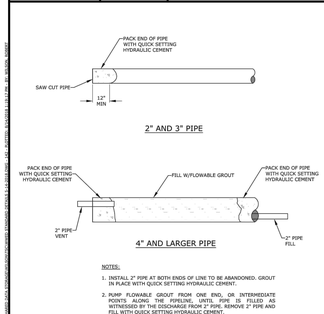

NOTES:
1. INSTALL 2" PIPE AT BOTH ENDS OF LINE TO BE ABANDONED. GROUT IN PLACE WITH QUICK SETTING HYDRAULIC CEMENT.
2. PUMP FLOWABLE GROUT FROM ONE END, OR INTERMEDIATE POINTS ALONG THE PIPELINE, UNTIL PIPE IS FILLED AS WITNESSED BY THE DISCHARGE FROM 2" PIPE. REMOVE 2" PIPE AND FILL WITH QUICK SETTING HYDRAULIC CEMENT.

REPLACES FORMER DWG NO.142	PIPE TO BE ABANDONED	FIGURE 142
REVISED 5/14/2018		

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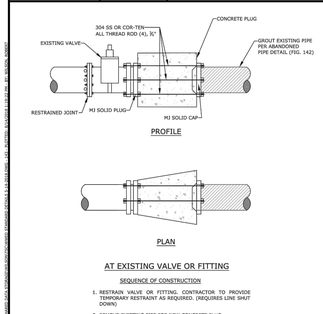

AT EXISTING VALVE OR FITTING

SEQUENCE OF CONSTRUCTION

1. RESTRAIN VALVE OR FITTING. CONTRACTOR TO PROVIDE TEMPORARY RESTRAINT AS REQUIRED. (REQUIRES LINE SHUT DOWN)
2. REMOVE EXISTING PIPE FOR NEW CONCRETE PLUG.
3. INSTALL PLUG INTO BELL OF VALVE OR FITTING AND CAP ON END OF EXISTING PIPE TO BE ABANDONED.
4. INSTALL ALL THREAD RODS (3/4" DIA., MIN) AND POUR CONCRETE PLUG.

REPLACES FORMER DWG NO.143	PIPE TO BE ABANDONED (LIVE LINE 4" AND LARGER)	FIGURE 143
REVISED 5/14/2018		

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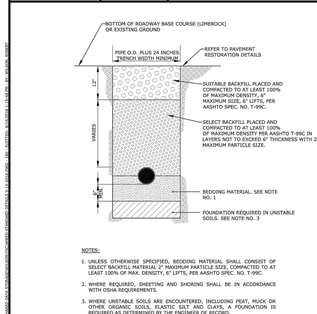

NOTES:
1. UNLESS OTHERWISE SPECIFIED, BEDDING MATERIAL SHALL CONSIST OF SELECT BACKFILL MATERIAL 2" MAXIMUM PARTICLE SIZE, COMPACTED TO AT LEAST 100% OF MAX. DENSITY, 6" LIFTS, PER AASHTO SPEC. NO. T-99C.
2. WHERE REQUIRED, SHEETING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
3. WHERE UNSTABLE SOILS ARE ENCOUNTERED, INCLUDING PEAT, MUCK OR OTHER ORGANIC SOILS, ELASTIC SILT AND CLAYS, A FOUNDATION IS REQUIRED AS DETERMINED BY THE ENGINEER OF RECORD.

REPLACES FORMER DWG NO.180	TYPICAL TRENCH BACKFILL	FIGURE 180
REVISED 5/14/2018		

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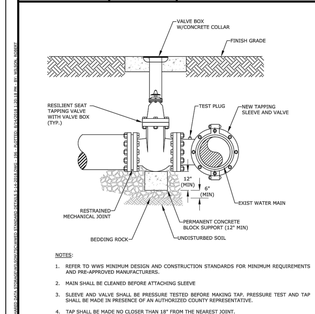

NOTES:
1. REFER TO WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS FOR MINIMUM REQUIREMENTS AND PRE-APPROVED MANUFACTURERS.
2. MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE
3. SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP. PRESSURE TEST AND TAP SHALL BE MADE IN PRESENCE OF AN AUTHORIZED COUNTY REPRESENTATIVE.
4. TAP SHALL BE MADE NO CLOSER THAN 18" FROM THE NEAREST JOINT.
5. CONCRETE BLOCK SHALL COMPLETELY SUPPORT TAPPING VALVE.
6. RESTRAINT JOINT REQUIREMENTS SHALL BE IN ACCORDANCE WITH WWS MINIMUM DESIGN AND CONSTRUCTION STANDARDS.

REVISED 5/14/2018	TAPPING SLEEVE AND VALVE INSTALLATION	FIGURE 196

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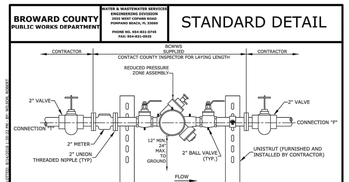

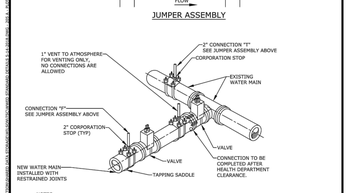

NOTES:
1. A BCWWS SUPPLIED FIRE HYDRANT BACKFLOW METER WITH RPZ MAY BE USED IN LIEU OF THE JUMPER ASSEMBLY.
2. SEE DETAIL 205B FOR ADDITIONAL REQUIREMENTS.

REPLACES FORMER DWG NO.7	FILLING AND FLUSHING JUMPER CONNECTION	FIGURE 205A
REVISED 5/14/2018		

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1. A FILLING AND FLUSHING JUMPER ASSEMBLY CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE BCWWS WATER MAINS AND NEW WATER MAINS. THE PROCEDURES ARE APPLICABLE WHEN CONNECTING TO AN EXISTING BCWWS WATER MAIN, WHETHER BY TAPPING TEE AND VALVE OR BY CONTINUATION OF A PLUGGED STUB OUT WITH AN EXISTING GATE VALVE.
2. THE CONTRACTOR SHALL CONTACT BCWWS REGARDING SCHEDULING OF REQUIRED INSPECTIONS RELATING TO THE CONNECTION. BCWWS INSPECTIONS ARE SPECIFICALLY REQUIRED FOR TIE-INS ON WET TAPS TO EXISTING WATER MAINS, JUMPER ASSEMBLY CONNECTIONS INSTALLATION, FLUSHING, PRESSURE TESTING, DISINFECTION, SAMPLING, PLUGGING OF SAMPLING POINTS AND PERMANENT CONNECTION OF THE NEW WATER MAIN. THE CONTRACTOR SHALL FOLLOW ALL PROCEDURES STRICTLY IN ACCORDANCE WITH BCWWS STANDARDS.
3. THE JUMPER ASSEMBLY (2" DIAMETER FLANGE TO FLANGE) WILL BE SUPPLIED BY BCWWS AND INSTALLED AND TESTED BY THE CONTRACTOR, IN COORDINATION WITH THE ENGINEER OF RECORD (EOR) AND BCWWS. OTHER MATERIALS AND INSTALLATION REQUIRED FOR THE CONNECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND FITTINGS SHALL BE RESTRAINED MECHANICAL JOINT TYPE. ALL MATERIALS SHALL BE PER THE BCWWS APPROVED PRODUCT SPECIFICATION SHEETS. THE JUMPER SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL IT IS REMOVED. JUMPER ASSEMBLIES 2" AND LARGER SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN COORDINATION WITH BCWWS.
4. ALL NEW WATER MAINS SHALL BE FLUSHED, PRESSURE TESTED AND DISINFECTED. NEW MAINS SHALL NOT BE PLACED INTO SERVICE UNTIL THE BACTERIOLOGICAL TEST RESULTS ARE SATISFACTORY AND A WRITTEN APPROVAL HAS BEEN OBTAINED FROM BCWWS, AS WELL AS CERTIFICATION FROM THE FLORIDA DEPARTMENT OF HEALTH.
5. THE WATER MAINS SHALL BE PRESSURE TESTED AFTER FLUSHING AND PRIOR TO DISINFECTION. ALL VALVES SHALL REMAIN CLOSED DURING THE PRESSURE TEST AND WILL NOT BE OPENED UNTIL THE RESULTS OF PRESSURE TESTING AND BACTERIOLOGICAL TESTING ARE SATISFACTORY AND THE SYSTEM HAS BEEN ACCEPTED FOR OPERATION BY BCWWS, AND HAS RECEIVED CERTIFICATION FROM THE FLORIDA DEPARTMENT OF HEALTH.
6. DISINFECTION SHALL BE CONDUCTED IN ACCORDANCE WITH AWWA C651. A MINIMUM PRESSURE OF 25 PSI SHALL BE MAINTAINED IN THE NEW MAIN AFTER DISINFECTION AT ALL TIMES.
7. PERMANENT CONNECTION TO EXISTING MAINS BY OPENING OF MAIN VALVES SHALL NOT BE MADE PRIOR TO BACTERIOLOGICAL CLEARANCE AND UNTIL APPROVED BY BCWWS AND CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH.
8. UPON BACTERIOLOGICAL CLEARANCE, THE SAMPLING POINTS SHALL BE REMOVED AND PLUGGED BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE THE PERMANENT CONNECTION IN THE PRESENCE OF A BCWWS INSPECTOR. THE PIPE AND FITTINGS FOR CONNECTION SHALL BE DISINFECTED BY SPRAYING AND SWABBING WITH CHLORINE. THE JUMPER ASSEMBLY (FLANGE TO FLANGE) WILL BE REMOVED BY THE CONTRACTOR IN COORDINATION WITH BCWWS. THE CONTRACTOR SHALL REMOVE THE REMAINDER OF THE JUMPER CONNECTION PIPING AND PLUG THE CORPORATION STOP VALVES.

REPLACES FORMER 205	FILLING AND FLUSHING JUMPER CONNECTION	FIGURE 205B
REVISED 5/14/2018		

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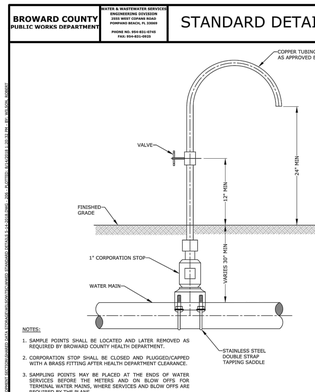

NOTES:
1. SAMPLE POINTS SHALL BE LOCATED AND LATER REMOVED AS REQUIRED BY BROWARD COUNTY HEALTH DEPARTMENT.
2. CORPORATION STOP SHALL BE CLOSED AND PLUGGED/CAPPED WITH A BRASS FITTING AFTER HEALTH DEPARTMENT CLEARANCE.
3. SAMPLING POINTS MAY BE PLACED AT THE ENDS OF WATER SERVICES BEFORE THE METERS AND ON BLOW OFFS FOR TERMINAL WATER MAINS, WHERE SERVICES AND BLOW OFFS ARE REQUIRED BY THE PLANS.

REPLACES FORMER DWG NO.6	SAMPLING POINT	FIGURE 206
REVISED 5/14/2018		

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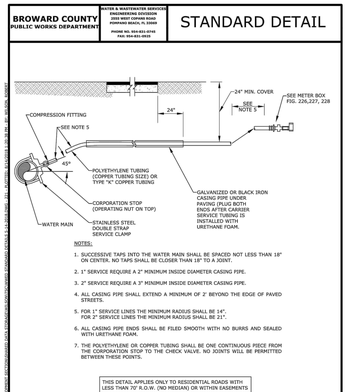

NOTES:
1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER. NO TAPS SHALL BE CLOSER THAN 18" TO A JOINT.
2. 1" SERVICE REQUIRE A 2" MINIMUM INSIDE DIAMETER CASING PIPE.
3. 2" SERVICE REQUIRE A 3" MINIMUM INSIDE DIAMETER CASING PIPE.
4. ALL CASING PIPE SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVED STREETS.
5. FOR 1" SERVICE LINES THE MINIMUM RADIUS SHALL BE 14", FOR 2" SERVICE LINES THE MINIMUM RADIUS SHALL BE 21'.
6. ALL CASING PIPE ENDS SHALL BE FILED SMOOTH WITH NO BURRS AND SEALED WITH URETHANE FOAM.
7. THE POLYETHYLENE OR COPPER TUBING SHALL BE ONE CONTINUOUS PIECE FROM THE CORPORATION STOP TO THE CHECK VALVE. NO JOINTS WILL BE PERMITTED BETWEEN THESE POINTS.

THIS DETAIL APPLIES ONLY TO RESIDENTIAL ROADS WITH LESS THAN 70' R.O.W. (NO MEDIAN) OR WITHIN EASEMENTS

REPLACES FORMER DWG NO.[illegible]	TYPE 1 WATER SERVICE CONNECTION	FIGURE 221
REVISED 5/14/2018		

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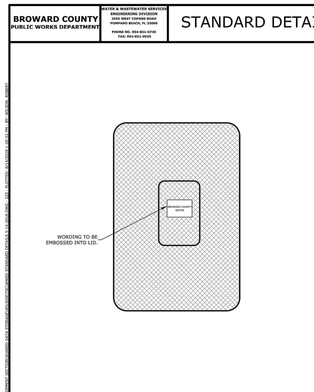
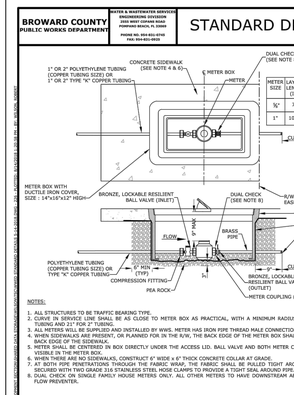


REVISED 5/14/2018	POTABLE WATER METER BOX COVER	FIGURE 225

BROWARD COUNTY PUBLIC WORKS DEPARTMENT | WATER & WASTEWATER SERVICES ENGINEERING DIVISION 2555 WEST COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0745 FAX: 954-831-0928 | **STANDARD DETAIL**



METER SIZE	LAYING LENGTH (IN)	HEIGHT (IN)	TUBING SIZE (IN)
⅝"	7.5	4.56	1"
1"	10.75	5.75	2"

NOTES:
1. ALL STRUCTURES TO BE TRAFFIC BEARING TYPE.
2. CURVE IN SERVICE LINE SHALL BE AS CLOSE TO METER BOX AS PRACTICAL, WITH A MINIMUM RADIUS OF BE 14" FOR 1" SERVICE AND 21" FOR 2".
3. ALL METERS WILL BE SUPPLIED AND INSTALLED BY WWS. METER HAS IRON PIPE THREAD MALE CONNECTION ON EACH END.
4. WHEN SIDEWALKS ARE PRESENT, OR PLANNED FOR IN THE R/W, THE BACK EDGE OF THE METER BOX SHALL LINE UP WITH THE BACK EDGE OF THE SIDEWALK.
5. METER SHALL BE CENTERED IN BOX DIRECTLY UNDER THE ACCESS LID. BALL VALVE AND BOTH METER COUPLINGS SHALL BE VISIBLE IN THE METER BOX.
6. WHERE THERE ARE NO SIDEWALKS, CONSTRUCT 6" WIDE x 6" THICK CONCRETE COLLAR AT GRADE.
7. 3/4" BOTH PIPE PENETRATIONS THROUG