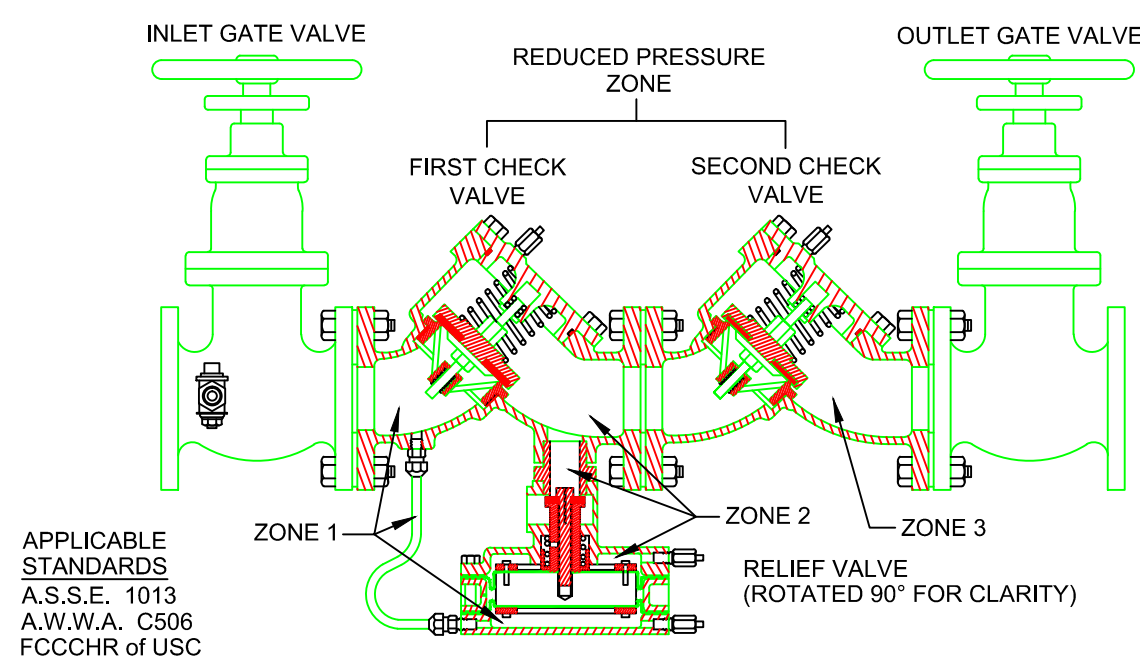


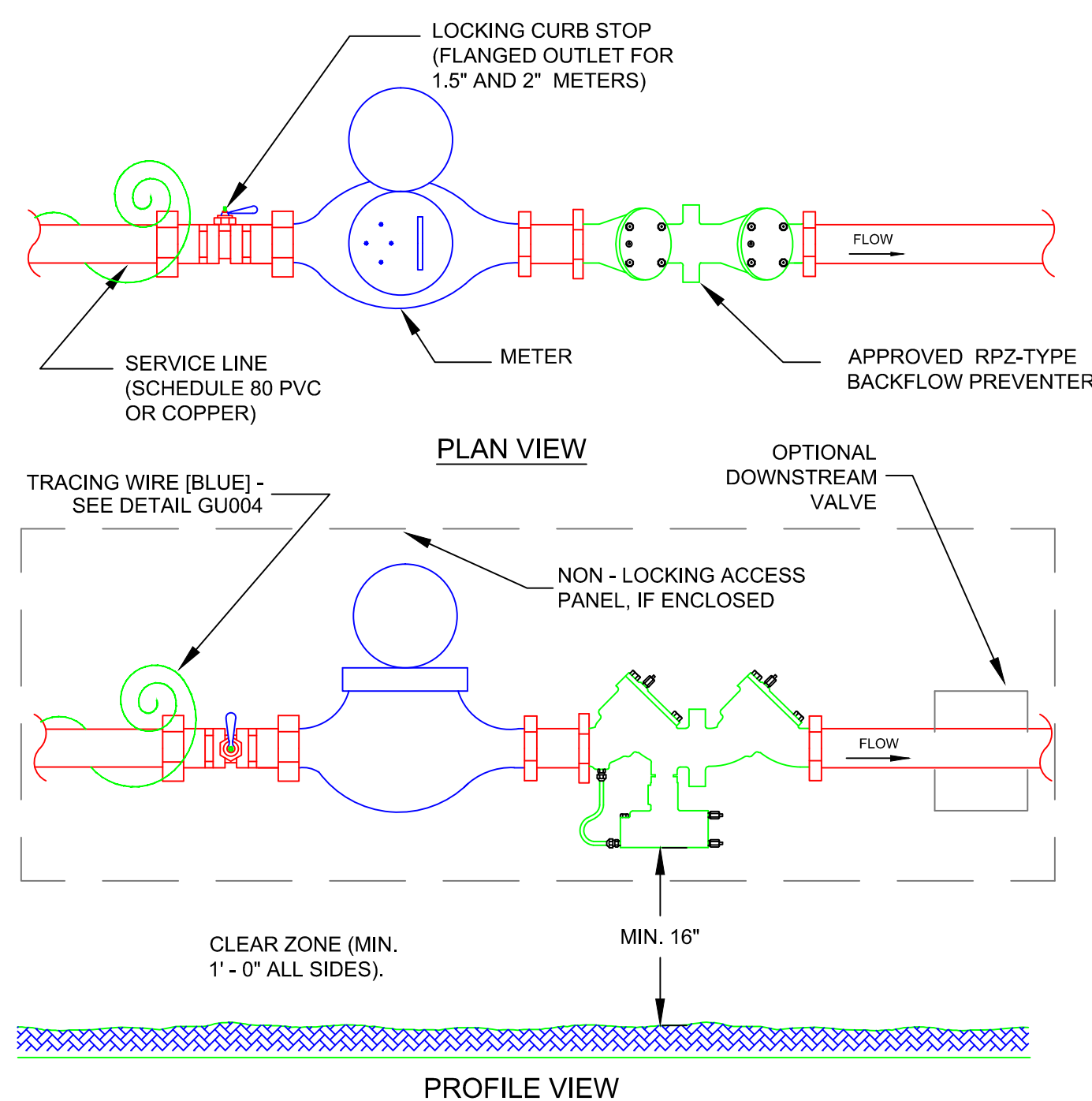
NOTES:

1. ALL DOMESTIC METERS TO BE COMPOUND OR FIRE LINE.
2. IRRIGATION METERS TO BE APPROVED TURBINE METERS.
3. METERS UP TO AND INCLUDING 2" TO BE PURCHASED FROM THE CITY. LARGER THAN 2" TO BE APPROVED BY CITY ENGINEER & PURCHASED BY OWNER.
4. METERS TO BE INSTALLED ABOVE GROUND.



MASTER METER ASSEMBLY W/BY-PASS & REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY

PW007-4

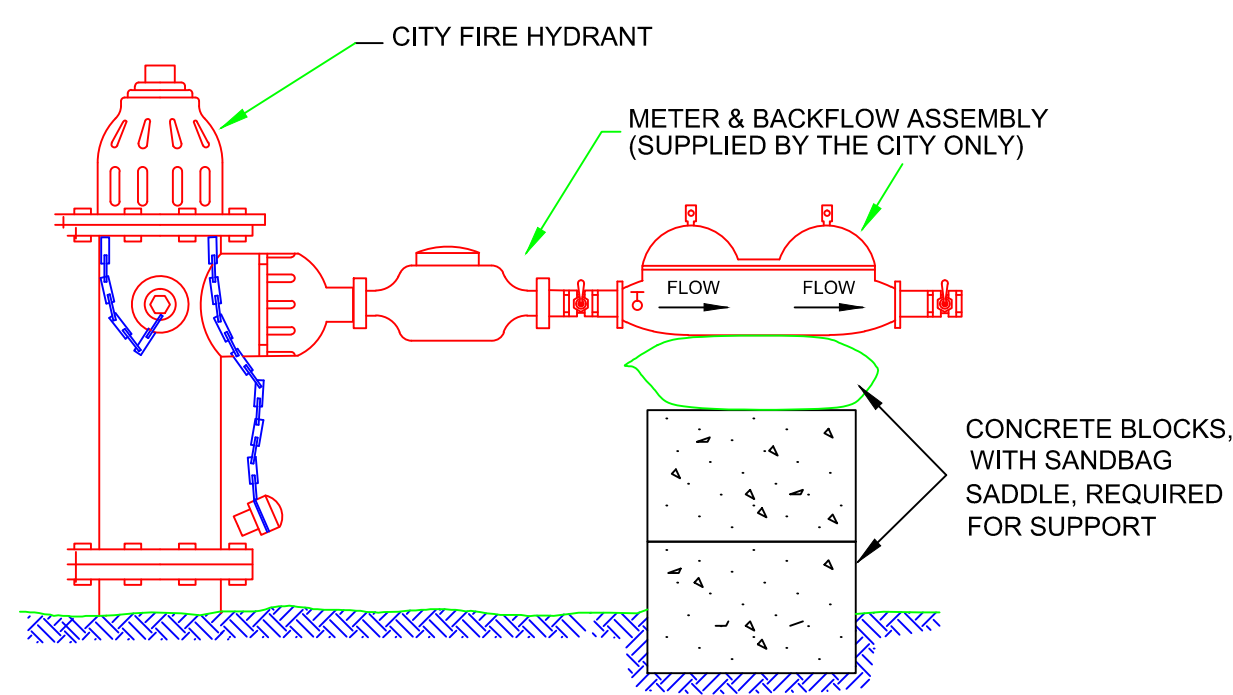


NOTES:

1. ALL METERS SHALL BE PURCHASED FROM THE CITY.
2. LOCATION SHALL BE COORDINATED WITH UTILITY BILLING & PUBLIC WORKS DEPARTMENT.
3. SERVICE LINES SHALL NOT BE LESS THAN METER SIZE.
4. BOLLARDS MAY BE REQUIRED IN TRAFFIC AREAS.
5. PROVIDE PIPE SUPPORTS WHERE NEEDED.

POTABLE WATER INDIVIDUAL ABOVE GROUND METER SET

PW010-2

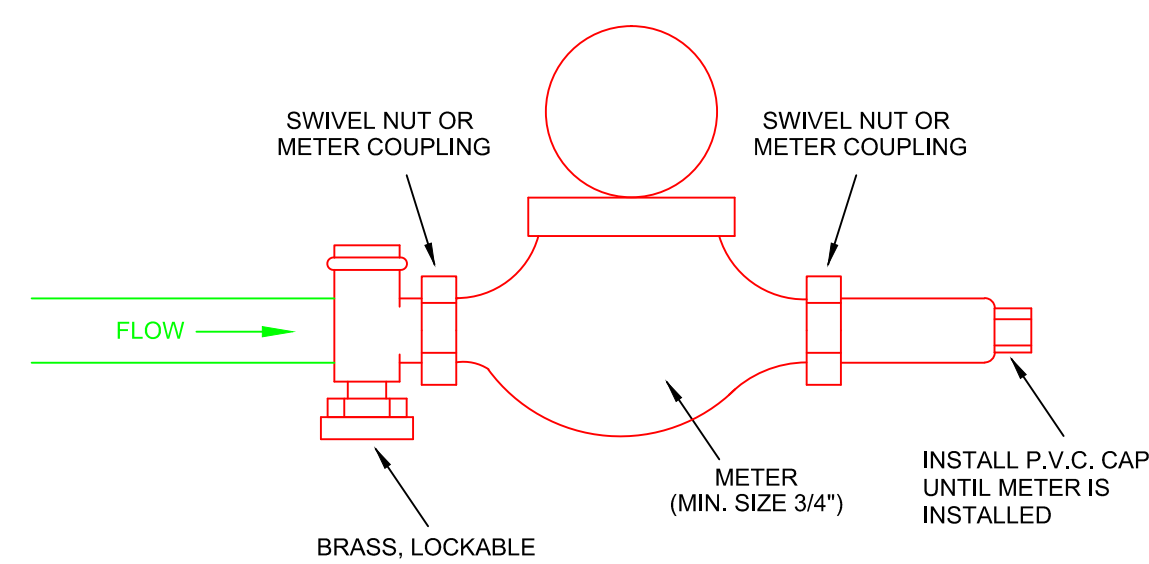


NOTES:

1. HYDRANT MUST BE FULLY OPENED DURING USE.
2. METER AND BACKFLOW ASSEMBLY SUPPLIED BY CITY ONCE DEPOSIT IS PAID.
3. VALID FOR 1" AND 2" TEMPORARY METERS.
4. ASSEMBLY MUST BE RETURNED TO CITY PRIOR TO ISSUANCE OF CERTIFICATION OF OCCUPANCY.

TEMPORARY METER INSTALLATION

PW008-1



NOTES:

1. WATER METERS ARE TO BE LOCATED NO HIGHER THAN 5 FEET FROM THE FLOOR IN AN ACCESSIBLE AREA.
2. WATER METERS CAN BE INSTALLED IN A VERTICAL OR HORIZONTAL POSITION.
3. THE LOCATION OF THE WATER METER IS SUBJECT TO COMMENT BY THE CITY'S BUILDING AND FIRE SAFETY (B/F/S) PLUMBING INSPECTOR.
4. ALL WATER METERS SHALL BE ISSUED BY, AND/OR PURCHASED FROM, THE CITY OF ALTAMONTE SPRINGS.
5. TO REUSE THE EXISTING CITY-ISSUED WATER METERS, CONTACT THE CITY OF ALTAMONTE SPRINGS UTILITY BILLING DEPARTMENT WITH THE SERIAL NUMBER, NAME OF BUSINESS AND SUITE NUMBER TO OBTAIN WRITTEN APPROVAL. WRITTEN APPROVAL SHALL BE REQUIRED TO BE PRESENTED TO THE PLUMBING INSPECTOR AT THE TIME OF INSPECTION. (NO OTHER WATER METERS WILL BE ACCEPTED.)
6. IF AN EXISTING WATER METER IS LOCATED OR REMOVED, THE WATER SERVICE MUST BE PERMANENTLY CAPPED OFF. ALL WATER METERS REMOVED FROM SERVICE MUST BE RETURNED TO THE CITY.
7. ALL WATER METERS SHALL HAVE A BRASS, LOCKABLE CURB STOP UPSTREAM OF THE METER.

WATER METER LOCATION/REQUIREMENTS FOR INTERIOR, COMMERCIAL USE

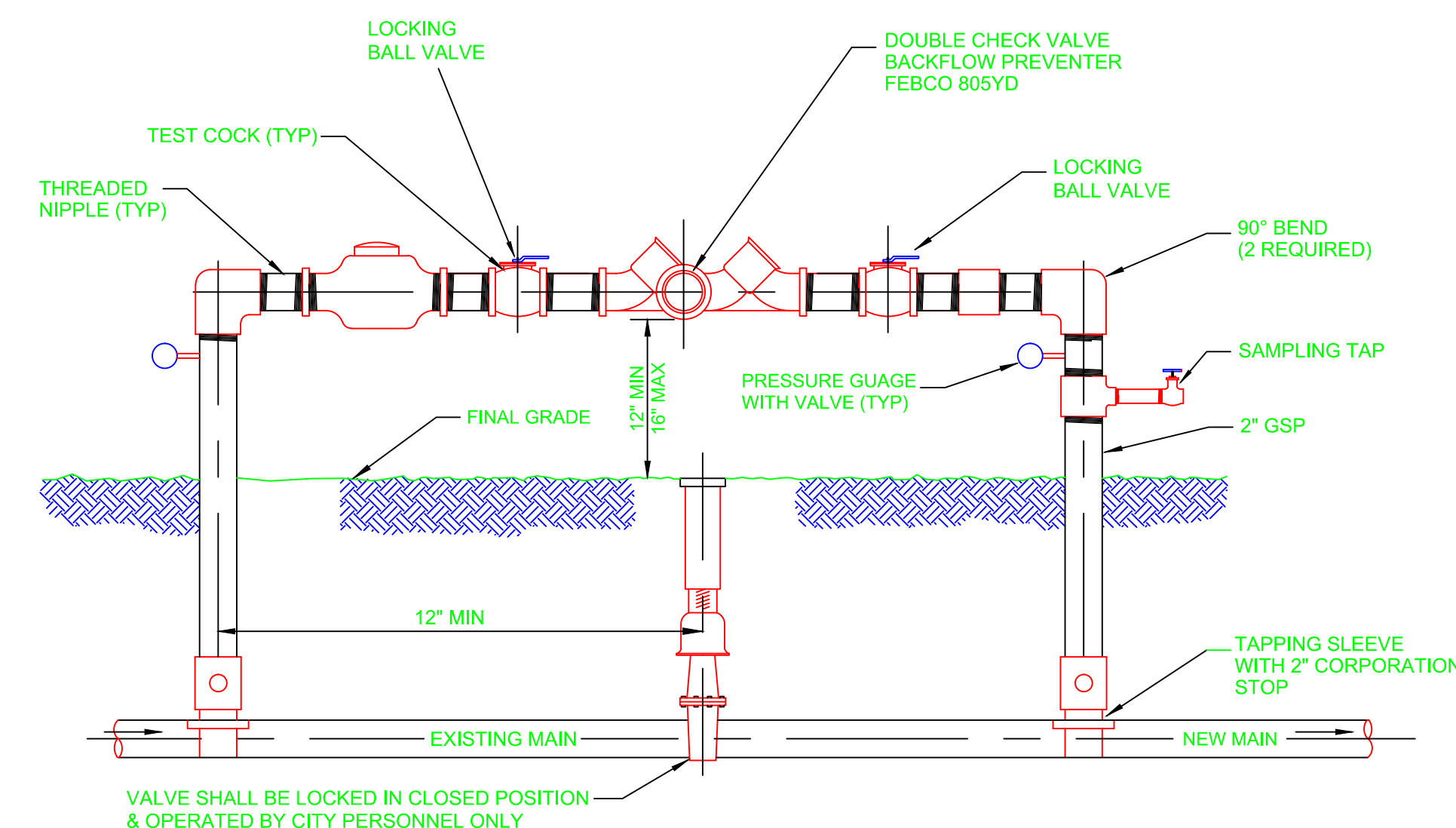
PW011-0

TEMPORARY JUMPER DETAIL NOTES:

- 1) A TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS.
- 2) THE DETAIL ON THE FOLLOWING PAGE IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM EXISTING ACTIVE WATER MAINS AND FOR FLUSHING OF NEW MAINS UP TO 6" DIAMETER (2.5 FPS MINIMUM VELOCITY), AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE. THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED. ADEQUATE THRUST BLOCKING AND/OR RESTRAINTS SHALL BE PROVIDED TEMPORARILY, AS REQUIRED. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C 651, 1992 EDITION. THIS TAPPING SLEEVE AND EXTERIOR OF THE MAIN, TO BE TAP-PED, SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION II OF AWWA C 651.
- 3) FLUSHING OF 10" DIAMETER AND LARGER WATER MAINS MAY BE DONE THROUGH THE TIE-IN VALVE UNDER VERY CONTROLLED CONDITIONS. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED.
 - A. THE TIE-IN VALVES SHALL BE OPERATED AND PRESSURE TESTED IN THE PRESENCE OF THE UTILITY COMPANY AND ENGINEER TO VERIFY WATER TIGHTNESS PRIOR TO THE TIE-IN. VALVES WHICH ARE NOT WATERTIGHT SHALL BE REPLACED OR A NEW VALVE INSTALLED IMMEDIATELY ADJACENT TO THE LEAKING VALVE.
 - B. THE TEMPORARY JUMPER CONNECTION SHALL BE CONSTRUCTED AS DETAILED. THE JUMPER CONNECTION SHALL BE USED TO FILL THE NEW WATER MAIN AND FOR PROVIDING WATER FOR BACTERIOLOGICAL SAMPLING OF THE NEW MAIN AS REQUIRED BY THE FDEP PERMIT.
 - FLUSHING SHALL NOT BE ATTEMPTED DURING PEAK DEMAND HOURS OF EXISTING WATER MAINS.
 - ALL DOWNSTREAM VALVES IN THE NEW SYSTEM MUST BE OPEN PRIOR TO OPENING THE TIE-IN VALVE.
 - PROVIDE FOR AND MONITOR THE PRESSURE AT THE TIE-IN POINT. THE PRESSURE IN THE EXISTING MAIN MUST NOT DROP BELOW 35 PSI.
 - TIE-IN VALVE SHALL BE OPENED A FEW TURNS ONLY ENSURING A PRESSURE DROP ACROSS THE VALVE IS ALWAYS GREATER THAN 10 PSI.
 - C. THE TIE-IN VALVE SHALL BE LOCKED CLOSED BY THE UTILITY COMPANY UNTIL FLUSHING BEGINS.
 - D. THE TIE-IN VALVE SHALL BE OPENED ONLY FOR FLUSHING OF THE NEW MAIN. THE PROCEDURE SHALL BE DIRECTED BY THE UTILITY COMPANY AND OBSERVED BY THE ENGINEER.
 - E. AFTER FLUSHING, THE TIE-IN VALVE SHALL BE CLOSED AND LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY.
- 4) THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE DOUBLE CHECK BACKFLOW PREVENTION DEVICE HAS BEEN TESTED AND IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION.
- 5) EXCEPT AS REQUIRED TO FLUSH THE LINES OR FOR LINES GREATER THAN 8" IN DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY FDEP AND ALL OTHER PERTINENT AGENCIES.
- 6) UPON RECEIPT OF CLEARANCE FOR USE FROM FDEP AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS PLUGS.
- 7) ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVE, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TEMPORARY JUMPER CONNECTION NOTES

PW009-1



TEMPORARY JUMPER CONNECTION DETAIL

PW009-2

PUBLIC WORKS & UTILITIES ENGINEERING AND DESIGN STANDARDS ISSUED 2017 REVISED 03/01/2017 BY:DJB	CITY OF ALTAMONTE SPRINGS 225 NEWBURYPORT AVE ALTAMONTE SPRINGS, FLORIDA 32701	DATE: X SCALE: NTS
	PW901-2 POTABLE WATER STANDARD DETAILS - CITY PROJECTS	1 SHEET 1 OF 1