

**UTILITY NOTES :**

- CONTRACTOR TO MAINTAIN MIN. OF 36" COVER OVER ALL UTILITY PIPES.
- SANITARY SEWERS, FORCE MAINS, AND STORM SEWERS SHOULD ALWAYS CROSS UNDER WATER MAINS. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.
- WHERE SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE BETWEEN THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCT IRON PIPE (DIP) AT THE CROSSING (DIP) IS NOT REQUIRED FOR STORM SEWERS IF IT IS NOT AVAILABLE IN THE AREA. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO CROSSINGS. ALL CROSSINGS MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 18 INCHES MUST BE MAINTAINED AT THE CROSSING.
- WHERE THERE IS NO ALTERNATIVE TO SEWER PIPES CROSSING OVER THE WATER MAIN MATERIALS FOR MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN LINES AND FEET BETWEEN JOINTS SHALL BE REQUIRED.
- ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS BE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).
- WHERE A SEWER CONTACTS WITH AN EXISTING PIPE SHALL BE CONSTRUCTED TO FOLLOW THE ARC OF THE EXISTING PIPE TO MEET THE REQUIREMENTS ABOVE.
- A MINIMUM 2-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
- IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELVE LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
- WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS THE WATER MAIN SHALL BE CONSTRUCTED OF DIP (IF AVAILABLE IN THE SIZE PROPOSED) WITH A MINIMUM VERTICAL DISTANCE OF 5 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWERS OR FORCE MAIN (STAGGERED JOINTS).
- DIP SHALL BE PRESSURE CLASS 350. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED.
- ONLY 80% OF MANUFACTURER'S RECOMMENDED JOINT DEFLECTION WILL BE ALLOWED.
- WATER MAIN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ANWA C-900.
- ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF PLANT CITY STANDARDS.
- SEWER MAINS SHALL BE PVC SDR 35 UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS.
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**CITY OF PLANT CITY UTILITY NOTES:**

- THE POTABLE WATER METER WILL BE AN AMR METER SUPPLIED BY CITY OF PLANT CITY AND INSTALLED BY THE CONTRACTOR ABOVE GROUND WITH ONE OF THE CITY'S APPROVED RPZ BACKFLOW PREVENTION DEVICES (SUPPLIED BY THE CONTRACTOR).
- THE PRIVATE FIRE HYDRANT SHOULD BE PAINTED A DIFFERENT COLOR THAN CITY HYDRANTS AND MUST BE INSPECTED ANNUALLY BY A PRIVATE COMPANY.

ALL UTILITIES INSIDE THE PROPERTY (WATER MAINS, SANITARY SEWERS, PUMP STATION AND 2" PVC FORCEMAIN) ARE PRIVATE AND TO BE MAINTAINED BY THE PROPERTY OWNER.

**AIR-RELEASE VALVE NOTES:**

- WATER AIR RELEASE VALVE SHALL BE ARI D-040-STST.
- FORCEMAIN AIR RELEASE VALVE SHALL BE ARI D-0245 (STAINLESS STEEL SAE 316).

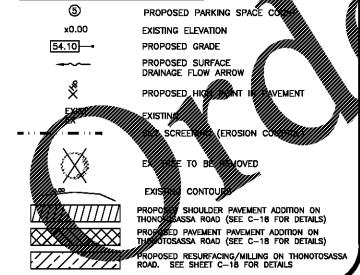
**APPROVED REDUCED PRESSURE ASSEMBLIES:**

- Apollo -4LF -0.5" to 2"
- Watts -LF919 -0.75" to 2"
- Wilkins 975XL2 -0.75" to 2"

**THONOTOSASSA ROAD TURN LANE NOTES:**

FOR ALL ROADWAY WORK ON THONOTOSASSA ROAD, SEE PLAN SHEETS C-15 THROUGH C-19.

**LEGEND: (AS APPLICABLE)**



**EXISTING LEGEND**



**THONOTOSASSA MARATHON**  
SECTION 24, TOWNSHIP 28 S., RANGE 21 E.  
CITY OF PLANT CITY, FLORIDA

**UTILITY PLAN**

DATE:	11/18/2017
DESIGNED BY:	RA
DRAWN BY:	RA
CHECKED BY:	RA
FILE NAME:	17035SITE
PROJECT #:	17-035
SHEET:	C-6

NO. REVISIONS  
 1. SUBMIT TO COPC & SFWMD 3/10/18  
 2. REV PER COPC & FOOT 9/29/18  
 3. REV PER COPC & RESUBMIT 10/17/18

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