

UTILITY NOTES:

- 1. ALL WATER, SEWER, AND REUSE WORK MUST BE PERFORMED IN ACCORDANCE WITH JEA WATER AND SEWER STANDARDS, DETAILS, AND SPECIFICATIONS AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS.
2. ALL EQUIPMENT AND MATERIALS SHALL COMPLY WITH THE JEA STANDARDS AND SPECIFICATIONS.
3. WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE...

NOTICE OF PROCEDURE:

- 1. ALL COMMERCIAL BUILDING PERMITS AND METERS TO BE PROCESSED THROUGH JEA WATER AND SEWER CUSTOMER SERVICE SHALL BE ACCOMPANIED BY A SET OF APPROVED CIVIL DESIGN PLANS.
2. ALL WATER AND SEWER TAPS TO BE PERFORMED BY UTILITY CONTRACTOR OR LICENSED MASTER PLUMBER MUST BE SCHEDULED AT LEAST 48 HOURS IN ADVANCE THROUGH YOUR JEA INSPECTOR...



KIMLEY-HORN AND ASSOCIATES
BRANDON TALALAJ
12740 GRAN BAY PARKWAY W, STE 2350
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32258

10/10/2019
Dear Customer,

A flow test was conducted on 10/10/2019 at 8:47 AM at your location.

The flow hydrant location:
PONTE VEDRA BLVD 1, 125' S OF CORONA RD (A)

The static residual hydrant location:
PONTE VEDRA BLVD 730' S OF CORONA RD (17)

Table with 2 columns: Parameter and Value. Includes flow rate (2.5), static pressure (18), and residual pressure (70).

Flowing computation results based on the above variables at Test Point (pm):
Flow (gpm): 1,432
Flow (gpm): 2,414

These results reflect system conditions at the time of the test. Flow will fluctuate over time in a dynamic system and should be taken into consideration when interpreting or using this data.

Thank you,
Curtis Perini
Office: 904-665-6416
Cell: 904-720-8825

POTABLE WATER SYSTEM NOTES:

- 1. NOTIFY JEA 48 HRS. IN ADVANCE OF MAKING THE CONNECTION TO THE EXISTING WATER MAIN STUB. A JEA INSPECTOR SHALL BE PRESENT AT THE CONNECTION IS MADE.
2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES AND CONNECTION POINTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
3. ALL WATER MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36 INCHES OF COVER FROM FINISHED GRADE.

SANITARY SEWER SYSTEM NOTES:

- 1. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES AND CONNECTION POINTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
2. SANITARY SEWER LINE SHALL BE SDR-26 PVC PIPE, CONFORMING TO ASTM D-3034. SANITARY SEWER LINES SHALL BE COLOR CODED AND CLEARLY MARKED.
3. SANITARY SEWER FORCE MAIN SHALL BE C900 DR18 PVC PIPE CONFORMING TO ASTM D-1784, D-1785, D-3138, AND F-477.

STANDARD WATER/SEWER SEPARATION STATEMENT:

- 1. SANITARY SEWERS (INCLUDING LATERALS), FORCE MAINS, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. 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 MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING...

HYDROSTATIC TESTING NOTES:

- 1. AFTER ALL PRESSURE PIPING (WATER MAINS, SERVICES, AND FORCE MAINS) ARE INSTALLED, THE JOINTS COMPLETED, AND THE TEST WATER IS LAID, THE ONLY LAID AND APPURTENANCES SHALL BE SUBJECTED TO A HYDROSTATIC TEST OF 150 PSI FOR TWO HOURS.
2. THE CONTRACTOR SHALL PERFORM A 24-HOUR (MINIMUM) PRE-TEST OF ALL PRESSURE PIPING PRIOR TO SCHEDULING PRESSURE TESTS WITH JEA AND THE ENGINEER. THE ENGINEER, AND JEA MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE A TEST IS TO BE PERFORMED BY SMALL BE AS SET FORTH IN A JEA STANDARD ORDER.

AS-BUILT AND TESTING NOTES:

- 1. SIGNED AND SEALED AS-BUILTS SHALL BE PREPARED BY THE CONTRACTOR ACCORDING TO AGENCY CLEARANCE AND OWNER REQUIREMENTS.
2. TESTING SHALL BE PERFORMED BY THE CONTRACTOR ACCORDING TO ALL APPLICABLE REGULATIONS.
3. IN ADDITION TO THE REQUIREMENTS ABOVE, THE CONTRACTOR SHALL PERFORM THE FOLLOWING TESTS AND PROVIDE RESULTS TO THE OWNER:
3.1 FOR GRAVITY SANITARY SEWER: AIR TESTED BETWEEN MANHOLES AT 3.5 PSI FOR 5 MINUTES PER ASTM F1417 FOR PLASTIC PIPES.

LEAKAGE TESTS:

- 1. THE LEAKAGE EXFILTRATION OR INFILTRATION DOES NOT EXCEED 200 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM.
2. EXFILTRATION OR INFILTRATION TESTS BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET.
3. AIR TESTS, AS A MINIMUM, CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C-824 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [ref: 33.93, 33.94, AND 33.95]

DEFLECTION TEST FOR ALL FLEXIBLE PIPE:

- TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM.
1. NO PIPE SHALL EXCEED A DEFLECTION OF 5%.
2. A RIGID BALL OR MANDREL FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX TO WHICH THE PIPE IS MANUFACTURED.
3. PERFORM THE TEST WITHOUT PULLING DEVICES. [ref: 33.85]

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

ALL PRIVATE WATER SUPPLY PIPING ASSOCIATED WITH FIRE PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-24 (LATEST EDITION) AND CONTRACTOR SHALL HOLD A CONTRACTOR V, FIRE PROTECTION LICENSE WITH THE STATE OF FLORIDA.

PROJECT DATUM: NAVD'88

Always call 811 two full business days before you dig to have underground utilities located and marked.



Right margin containing revision table, Kimley-Horn logo, professional engineer seal for Joseph P. Mecca, P.E., license number 53192, and project information for KHA PROJECT 04-5538000 dated MAY 2020.

