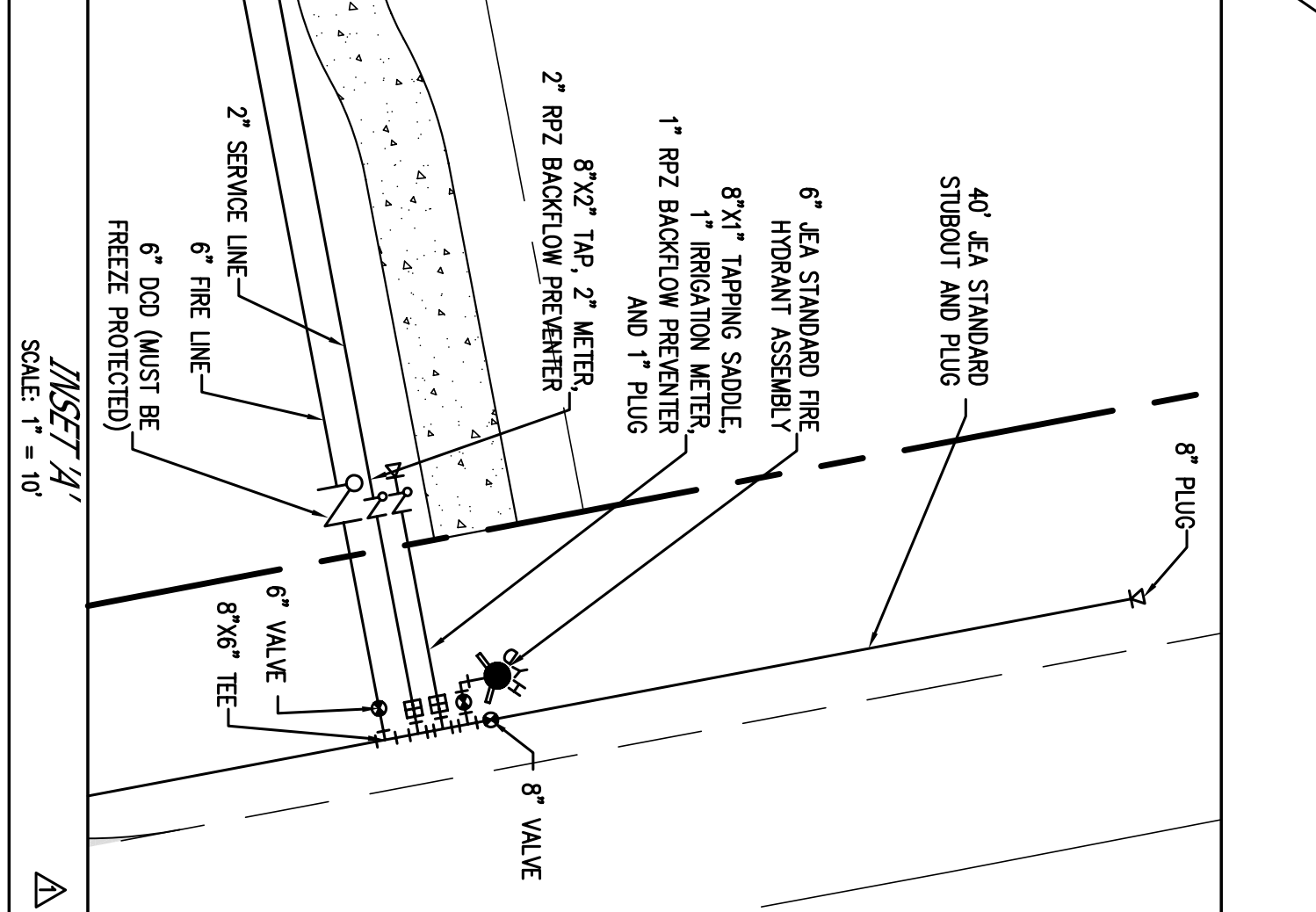


PROPOSED FIRE HYDRANT



PROPOSED SITE STATISTICS - CHURCH PARCEL

PROPOSED SITE AREA	SQUARE FEET	ACRES	PERCENT OF SITE
PAYMENT AREA	71,980	1.65	100.0%
SIDEWALK AREA	23,174	0.53	32.2%
BUILDING AREA	1,082	0.03	1.3%
TOTAL IMPERVIOUS AREA	6,561	0.15	9.1%
TOTAL GREEN AREA	39,959	0.71	42.8%
TOTAL GREEN AREA	40,552	0.94	57.2%

52 SPACES REQUIRED PER ADMINISTRATIVE DEVIATION AD-08-15
52 SPACES PROVIDED + 4 HC

WATER NOTES:

1. THE CONTRACTOR SHALL OBTAIN ALL PERMITS TO COMPLETE THE CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF WATER FACILITIES WITH ALL OTHER CONSTRUCTION.
3. CONTRACTOR SHALL FINISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION, ON ITEMS NOT COVERED IN THE EA APPROVED MATERIALS MANUAL.
4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST CITY OF JACKSONVILLE AND EA STANDARDS AND SPECIFICATIONS AND APPLICABLE AWWA STANDARDS.
5. THE EXISTING UTILITY FACILITIES AND LOCATIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM RECORD DRAWINGS AND FIELD SURVEY. THE LOCATION OF UTILITY FACILITIES MAY VARY Slightly FROM THE LOCATION OF THE UTILITY FACILITIES SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITY FACILITIES EXISTING THAT ARE NOT SHOWN OR INDICATED ON THE DRAWINGS. THE SITE UTILITY CONTRACTOR SHALL CONTACT ALL AGENCIES WITH UTILITY FACILITIES IN THE VICINITY OF THE WORK AND SHALL LOCATE ALL UNDERGROUND FACILITIES BEFORE BEGINNING WORK. THE CONTRACTOR SHALL PROTECT ALL UTILITY FACILITIES AND REPAIR ANY DAMAGED RESULTING FROM THEIR WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND RELOCATE IF REQUIRED AT NO COST TO THE OWNER.
6. WATER LINES SHALL HAVE A MINIMUM OF 36" COVER FROM FINISHED GRADE. MAXIMUM COVER SHALL BE 42" UNLESS GREATER DEPTHS ARE NEEDED TO AVOID CONTACTS WITH OTHER UTILITIES.
7. WATER LINES SHALL BE DESIGNED TO FINISHED GRADE AND SHALL BE PROTECTED UNTIL FINISH WORK IS COMPLETE.
8. ALL WATER LINES 4" AND LARGER SHALL BE AWWA C900 DR-25 PVC UNLESS OTHERWISE SPECIFIED ON PLANS AS DUCTILE IRON PIPE. DUCTILE IRON PIPE 4" AND LARGER SHALL BE AWWA C151/151 CLASS 51 (MIN.) 2" WATER LINES SHALL BE ASTM D2241, 50#-40, PVC PRE WITH SOLVENT JOINTS AND WITH NSF-PW APPROVAL.
9. ALL GATE VALVES SHALL BE NON-RISING STEEL TYPE AND SHALL BE SUITABLE FOR 200 PS NON-SHOCK WORKING PRESSURE. GATE VALVES SHALL BE MECHANICAL JOINT, IRON BODY, RESILIENT SEAT, METEER OR EQUAL. VALVE BOXES WITH SCREEN EXTENSIONS SHALL BE PROVIDED FOR EACH BURIED GATE VALVE. BOXES SHALL BE OF CAST IRON CONSTRUCTION, 3/8" MINIMUM WALL THICKNESS AND SHALL BE NON-JACKY TAR ENAMEL COATED. THE WORD "WATER" SHALL BE CAST IN COVER. ALL GATE VALVES INSTALLED SHALL OPEN BY TURNING TO THE LEFT (COUNTERCLOCKWISE) WHEN VIEWED FROM THE STEW.
10. THE B-BEDDING SHALL BE USED FOR THIS PROJECT UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. THIS SHALL BE REMOVED AND REPLACED WITH 10# (20#) BELT SANDS OVER WATER PIPES. ALL WATER PIPES SHALL BE PROTECTED WITH SELECTED MATERIALS SHOULD CHANGES TO THE ORIGINAL DESIGN BE NECESSARY. CONTROLS WITHIN +/- 2 PERCENT OF THE WORKED PROCTOR OPTIMUM MOISTURE CONTENT (ASTM D1557) DURING THE COMPACTION OPERATIONS. COMPACTION SHOULD CONTINUE UNTIL DENSITIES OF AT LEAST 95 PERCENT OF THE WORKED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) HAVE BEEN ACHIEVED.
11. NO CONNECTION TO EXISTING PORTABLE WATER SYSTEM WILL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN FLOWED, PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION / DIVAL COUNTY HEALTH DEPARTMENT.
12. CONTRACTOR SHALL NOTIFY UTILITY COMPANY A MINIMUM OF TWO DAYS PRIOR TO CONNECTION OF WATER MAINS TO EXISTING LINES.
13. ALL NEW WORK MUST BE INSPECTED BY THE ENGINEER. NO TESTS SHALL BE SCHEDULED FOR WEEKENDS. ANY CHANGE FROM THE TECHNICAL REQUIREMENTS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER. TESTS SHALL BE MAINTAINED BETWEEN WATER AND SANDS TO MAINTAIN SEPARATION. TESTS SHALL BE 18" SEMI PER FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF CROSSING.
14. HYDROSTATIC AND LEAKAGE TESTING OF THE WATER MAINS INSTALLED SHALL BE PERFORMED IN ACCORDANCE WITH OWNER AND AWWA STANDARD SPECIFICATIONS. A REPRESENTATIVE OF THE UTILITY COMPANY OR THE ENGINEER MUST BE PRESENT DURING THE TESTS. PRESSURE TESTS SHALL BE CONDUCTED AT 150 PSI FOR 2 HOURS FOR WATER MAINS AND 200 PSI FOR 2 HOURS FOR FIRE MAINS. PRESSURE TESTS AFTER UNDERCOAT IS INSTALLED.
15. THE CONTRACTOR SHALL COORDINATE ALL WATER MAIN FLOWING WITH THE APPROPRIATE UTILITY COMPANY. FLOWING AND DISINFECTION PROCEDURES SHALL COMPLY WITH AWWA FOR 17. LIGNO COMPLETION OF WATER MAIN FLOWING, BACTERIOLOGICAL SAMPLES SHALL BE TAKEN. SAMPLES SHALL BE TAKEN FOR 2 CONSECUTIVE DAYS.
16. SAME POINTS FOR BACTERIOLOGICAL SAMPLING SHALL BE LOCATED AS FOLLOWS:
1. EVERY 1000 FEET AND/OR EVERY DECADE END ON A WATER MAIN.
2. POINT OF THE IN-TO EXISTING WATER SYSTEM.
3. WATER MAIN STUBS MORE THAN 40 FEET IN LENGTH.
19. WHEN A WATER MAIN CROSSES A STORM DRAINAGE LINE, A MINIMUM OF 18" VERTICAL SEPARATION IS REQUIRED.
20. ALL WATER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LISTED UNDER CHAPTER 489 F.S.
21. WHERE PARALLEL WATER AND SEWER (INCLUDING STORM) LINES HAVE LESS THAN 10 FEET HORIZONTAL SEPARATION, FULL-DEPTH LENGTHS OF WATER QUALITY PIPE (IE DR 25 AWWA C-900) FOR NEWLY INSTALLED SEWER & DR 25 AWWA C-900 WATER) WILL BE USED WITH THE SEWER TO BE INSTALLED ABOVE THE WATER. WHERE SEWER AND WATER LINES ARE SEPARATED BY INCHES, IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 10 FEET OF SEPARATION WHERE POSSIBLE.
22. WHERE IT IS NOT POSSIBLE FOR WATER AND SEWER (INCLUDING STORM) LINES TO CROSS WITH A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE, A FULL LENGTH OF WATER QUALITY PIPE (IE DR 25 AWWA C-900 FOR NEWLY INSTALLED SEWER & DR 25 AWWA C-900 WATER) WHICH IS USUALLY 20 FEET LONG WILL BE CENTERED ON THE POINT OF CROSSING. THE SEPARATION BETWEEN WATER AND SEWER (INCLUDING STORM) PIPES WHEN 18 INCHES IS NOT POSSIBLE WILL BE 6 INCHES OUTSIDE DIAMETER TO OUTSIDE DIAMETER. IT IS PREFERABLE TO HAVE THE WATER MAIN ABOVE THE SEWER.
23. A FULL-DEPTH LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSING. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE MATCHING CONSTRUCTION MEASURES IN ALL CASES WHERE A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE BETWEEN WATER AND SEWER (INCLUDING STORM) LINES IS NOT POSSIBLE.
24. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER FOR CONSTRUCTION USE DURING THE ENTIRE COURSE OF PROJECT IF NECESSARY.
25. PRESSURE PIPE AND FITTINGS REQUIRING RESTRAINT SHALL BE RESTRAINED JOINTS PER CITY OF JACKSONVILLE AND EA STANDARDS.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING WATER FOR CONSTRUCTION USE DURING THE ENTIRE COURSE OF PROJECT IF NECESSARY.
27. SOLENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITS AGENCY, DUCTILE IRON PIPE SHALL BE REPLACED WITH DUCTILE IRON PIPE. ALL SOLENT CONTAMINATION SHALL BE REMOVED AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL FIELD FOR PROPER DISPOSAL.
28. WATER CONSTRUCTION SHALL BE PER THE EA STANDARD SPECIFICATIONS. ALL MATERIALS SHALL BE LISTED IN THE EA APPROVED MATERIALS MANUAL.
29. CONTRACTOR SHALL FINISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING CONSTRUCTION.
30. ALL WATER SERVICE LINES SHALL BE PVC SCH. 80, AND BE MARKED WITH "NS" SEAL.
31. ALL WATER SERVICE LINE FITTINGS SHALL BE PVC SCH. 80, SCHEDULE 80, FITTINGS SHALL BE REPRESENTATIVE OF THE OWNER OR EA. BLOCKS HAVE BEEN INDICATED BY A REPRESENTATIVE OF THE OWNER OR EA.
32. UNSUITABLE MATERIALS UNDER WATER PIPE SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL PROPERLY COMPACTED. COMPACTION SHALL BE A MINIMUM OF 95% OF MAX. DENSITY PER ASTM D1557 AT OPTIMUM MOISTURE CONTENT +/- 2%.
33. BACKFILLING SHALL BE MADE WITH CLEAN BANKFILL WHICH SHALL BE THOROUGHLY COMPACTED IN 6" LIFTS.
34. CONTRACTOR SHALL NOTIFY THE CITY OF JACKSONVILLE AND EA A MINIMUM OF TWO DAYS PRIOR TO CONNECTION OF WATER SERVICE LINES TO EXISTING LINES. ALL NEW WORK MUST BE INSPECTED BY THE ENGINEER, CITY OF JACKSONVILLE AND EA. NO TESTS SHALL BE SCHEDULED FOR WEEKENDS. ANY CHANGE FROM THE TECHNICAL REQUIREMENTS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND OWNER. TESTS SHALL BE MAINTAINED BETWEEN WATER AND SANDS TO MAINTAIN SEPARATION. TESTS SHALL BE 18" SEMI PER FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF CROSSING.
35. THE CONTRACTOR SHALL SCHEDULE THE CONSTRUCTION OF THE PROPOSED WATER SERVICE LINES OF THE SYSTEM CONTINUOUS SERVICE TO THE EXISTING BUILDINGS. ANY SHUTDOWN OF THE SYSTEM MUST BE COORDINATED WITH THE OWNERS WITH A MINIMUM OF 48 HOURS NOTICE.
36. THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS AND SHALL COORDINATE THEIR APPROVAL WITH EA, THE CITY OF JACKSONVILLE, AND THE ENGINEER.

<p>Revisions</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PER EA COMMENTS</td> <td>02-09-06</td> <td>WES</td> </tr> <tr> <td>2</td> <td>PER COU 10 SET, SURVMD RAI</td> <td>03-04-09</td> <td>WES</td> </tr> <tr> <td>3</td> <td>PER HRS</td> <td>03-25-09</td> <td>WES</td> </tr> <tr> <td>4</td> <td>PER COU 10 SET FINAL</td> <td>03-25-09</td> <td>WES</td> </tr> <tr> <td>5</td> <td>PER COU 10 SET</td> <td>04-06-09</td> <td>WES</td> </tr> <tr> <td>6</td> <td>PER DCHD</td> <td>04-27-09</td> <td>WES</td> </tr> </tbody> </table>	No.	Description	Date	By	1	PER EA COMMENTS	02-09-06	WES	2	PER COU 10 SET, SURVMD RAI	03-04-09	WES	3	PER HRS	03-25-09	WES	4	PER COU 10 SET FINAL	03-25-09	WES	5	PER COU 10 SET	04-06-09	WES	6	PER DCHD	04-27-09	WES	<p>THE JOHN STOKES COMPANY (904) 321-1832 2424-A LYNNDALE ROAD FERNANDINA BEACH, FLORIDA FLA. CERTIFICATION NO. CGC026018</p>	<p>WILLIAM E. (ED) TULLY III, INC. Consulting Civil Engineer FLORIDA REG. P.E. # 36191 (904) 824-6371; Fax: (904) 824-9305 10625 Quail Ridge Drive - Ponte Vedra, FL 32081 Certificate of Authorization # 4576 Not valid unless embossed by a seal</p>	<p>BRIDEGROOM APOSTOLIC CHURCH S.W. CORNER OF TARTLING AVENUE AND FINCH AVENUE GEOMETRIC AND UTILITY PLAN</p>
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