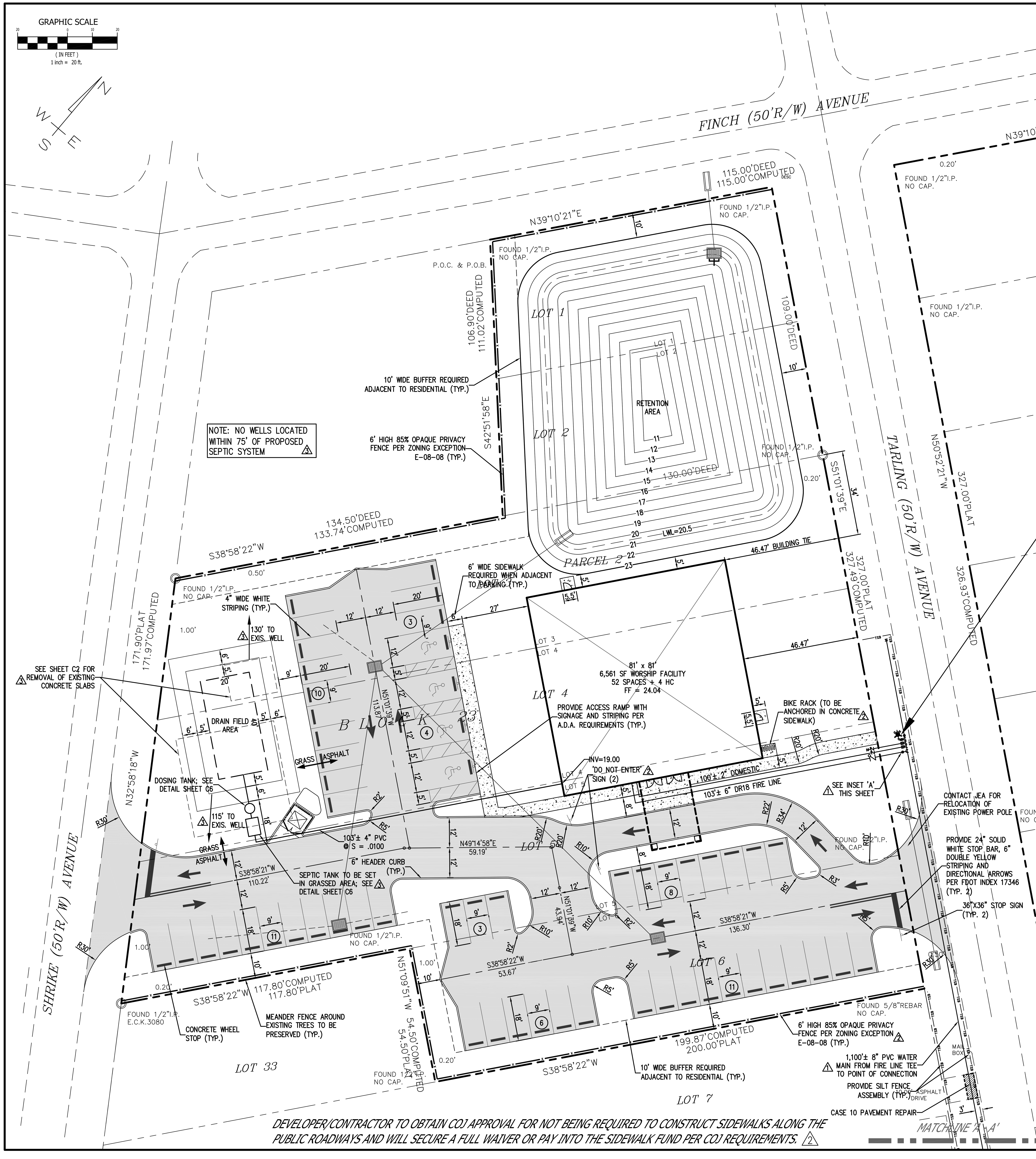

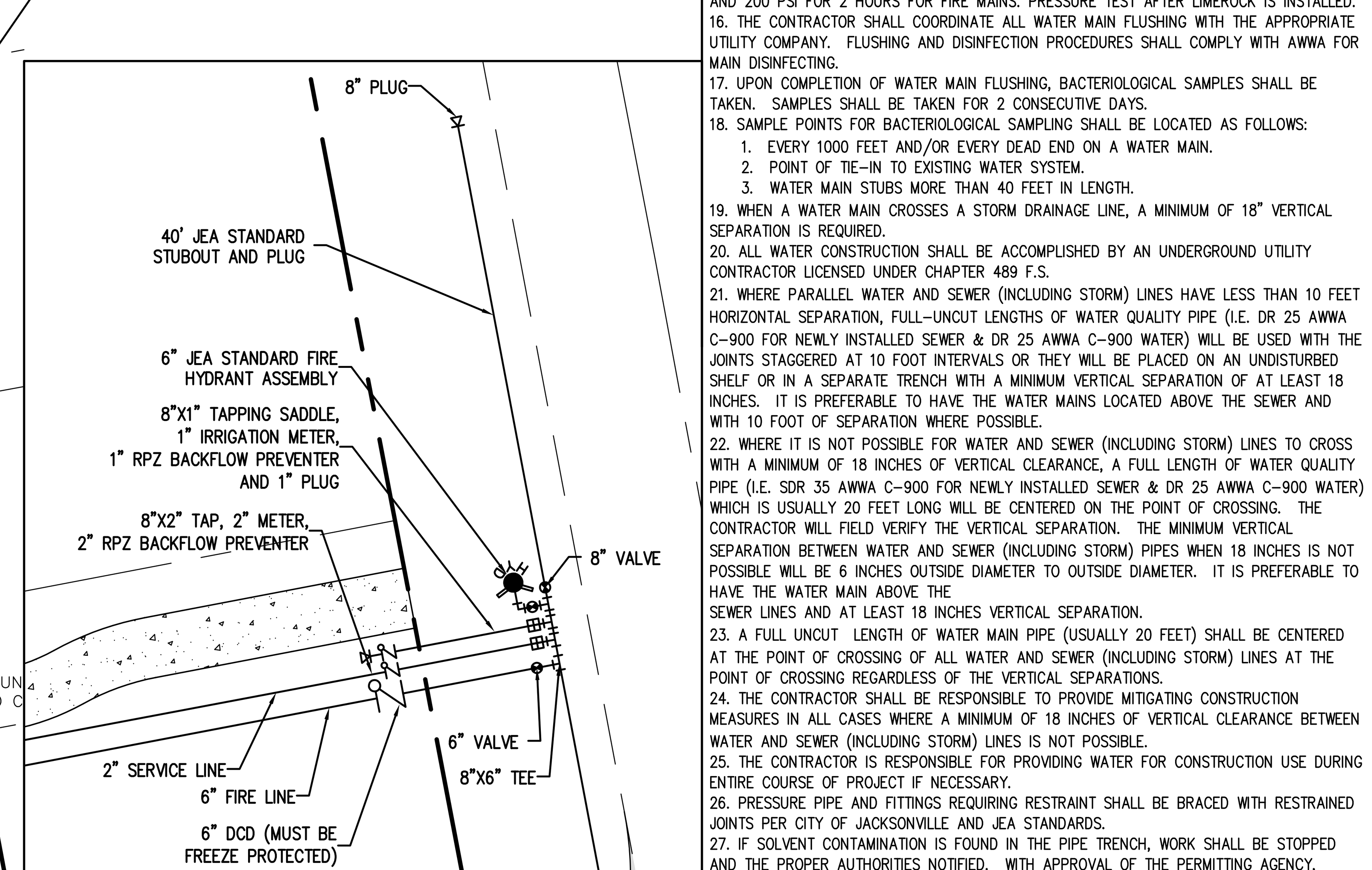

INSET 'A'
SCALE: 1" = 10'

PROPOSED SITE STATISTICS - CHURCH PARCEL

	SQUARE FEET	ACRES	PERCENT OF SITE
PROPOSED SITE AREA	71,980	1.65	100.0%
PAVEMENT AREA	23,174	0.53	32.2%
SIDEWALK AREA	1,082	0.03	1.5%
BUILDING AREA	6,561	0.15	9.1%
TOTAL IMPERVIOUS AREA	39,959	0.71	42.8%
TOTAL GREEN AREA	40,552	0.94	57.2%

52 SPACES REQUIRED PER ADMINISTRATIVE DEVATION 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 FURNISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION, ON ITEMS NOT COVERED IN THE JEA APPROVED MATERIALS MANUAL.
4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST CITY OF JACKSONVILLE AND JEA STANDARDS AND SPECIFICATIONS AND APPLICABLE AWWA STANDARDS.
5. THE EXISTING UTILITY FACILITIES AND LOCATIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM READILY AVAILABLE INFORMATION. THE ACTUAL LOCATION OF THE UTILITY FACILITIES MAY VARY SOMEWHAT FROM THE LOCATIONS SHOWN AND THERE MAY BE 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 CONFLICTS WITH OTHER UTILITIES.
7. WATER LINES ARE DESIGNED TO FINISHED GRADE AND SHALL BE PROTECTED UNTIL FINISH WORK IS COMPLETE.
8. ALL WATER MAINS 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 ANSI/AWWA A21.51/C151, CLASS 51 (MIN.). 2" WATER MAINS SHALL BE ASTM D2241, SCH-40, PVC PIPE WITH SOLVENT JOINTS AND WITH NSF-PW APPROVAL.
9. ALL GATE VALVES SHALL BE NON-RISING STEM TYPE AND SHALL BE SUITABLE FOR 200 PSI NON-SHOCK WORKING PRESSURE. GATE VALVES SHALL BE MECHANICAL JOINT, IRON BODY, RESILIENT SEAT, MUELLER OR EQUAL. VALVE BOXES WITH SCREW 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-TACKY 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 STEM.
10. TYPE B BEDDING SHALL BE USED FOR THIS PROJECT UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
11. UNSUITABLE MATERIALS UNDER WATER PIPE SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL PROPERLY COMPACTED. THE MATERIAL SHOULD EXHIBIT MOISTURE CONTENTS WITHIN +/- 2 PERCENT OF THE MODIFIED PROCTOR OPTIMUM MOISTURE CONTENT (ASTM D1557) DURING THE COMPACTION OPERATIONS. COMPACTION SHOULD CONTINUE UNTIL DENSITIES OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) HAVE BEEN ACHIEVED.
12. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM WILL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN FLUSHED, PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION / DUVAL COUNTY HEALTH DEPARTMENT.
13. CONTRACTOR SHALL NOTIFY UTILITY COMPANY A MINIMUM OF TWO DAYS PRIOR TO CONNECTION OF WATER MAINS TO EXISTING LINES.
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.
14. LATERAL SEPARATION OF AT LEAST 10 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES. WHERE VERTICAL SEPARATION IS LESS THAN 18", SEWER LINES SHALL BE ENCASED IN CONCRETE OR CAST IRON PIPE USED IN LIEU OF PVC PIPE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF CROSSING.
15. 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 TEST AFTER LIMEROCK IS INSTALLED.
16. THE CONTRACTOR SHALL COORDINATE ALL WATER MAIN FLUSHING WITH THE APPROPRIATE UTILITY COMPANY. FLUSHING AND DISINFECTION PROCEDURES SHALL COMPLY WITH AWWA FOR MAIN DISINFECTING.
17. UPON COMPLETION OF WATER MAIN FLUSHING, BACTERIOLOGICAL SAMPLES SHALL BE TAKEN. SAMPLES SHALL BE TAKEN FOR 2 CONSECUTIVE DAYS.
18. SAMPLE POINTS FOR BACTERIOLOGICAL SAMPLING SHALL BE LOCATED AS FOLLOWS:
    1. EVERY 1000 FEET AND/OR EVERY DEAD END ON A WATER MAIN.
    2. POINT OF TIE-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 LICENSED UNDER CHAPTER 489 F.S.
21. WHERE PARALLEL WATER AND SEWER (INCLUDING STORM) LINES HAVE LESS THAN 10 FEET HORIZONTAL SEPARATION, FULL-UNCUT LENGTHS OF WATER QUALITY PIPE (I.E. DR 25 AWWA C-900 FOR NEWLY INSTALLED SEWER & DR 25 AWWA C-900 WATER) WILL BE USED WITH THE JOINTS STAGGERED AT 10 FOOT INTERVALS OR THEY WILL BE PLACED ON AN UNDISTURBED SHELF OR IN A SEPARATE TRENCH WITH A MINIMUM VERTICAL SEPARATION OF AT LEAST 18 INCHES. IT IS PREFERABLE TO HAVE THE WATER MAINS LOCATED ABOVE THE SEWER AND WITH 10 FOOT 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 (I.E. SDR 35 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 CONTRACTOR WILL FIELD VERIFY THE VERTICAL SEPARATION. THE MINIMUM VERTICAL 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 LINES AND AT LEAST 18 INCHES VERTICAL SEPARATION.
23. A FULL UNCUT 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 REGARDLESS OF THE VERTICAL SEPARATIONS.
24. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE MITIGATING CONSTRUCTION MEASURES IN ALL CASES WHERE A MINIMUM OF 18 INCHES OF VERTICAL CLEARANCE BETWEEN WATER AND SEWER (INCLUDING STORM) LINES IS NOT POSSIBLE.
25. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER FOR CONSTRUCTION USE DURING ENTIRE COURSE OF PROJECT IF NECESSARY.
26. PRESSURE PIPE AND FITTINGS REQUIRING RESTRAINT SHALL BE BRACED WITH RESTRAINED JOINTS PER CITY OF JACKSONVILLE AND JEA STANDARDS.
27. IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE FITTING AND SOLVENT RESISTANT GASKET MATERIAL, SUCH AS FLUOROCARBON SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED. ANY CONTAMINATED SOIL THAT IS EXCAVATED SHALL BE PLACED ON AN IMPERMEABLE MAT AND COVERED WITH A WATERPROOF COVERING. THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTAMINATED SOIL HELD FOR PROPER DISPOSAL.
28. WATER CONSTRUCTION SHALL BE PER THE JEA STANDARD SPECIFICATIONS. ALL MATERIALS SHALL BE LISTED IN THE JEA APPROVED MATERIALS MANUAL.
29. CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING CONSTRUCTION.
30. ALL WATER SERVICE LINES SHALL BE PVC SCH. 80, AND BE MARKED WITH "NSF" SEAL.
31. ALL WATER SERVICE LINE FITTINGS SHALL BE PVC SCH. 80, SOLVENT WELD. FITTINGS SHALL REMAIN UNCOVERED UNTIL THRUST BLOCKS HAVE BEEN INSPECTED BY A REPRESENTATIVE OF THE OWNER OR JEA.
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 BACKFILL WHICH SHALL BE THOROUGHLY COMPACTED IN 6" LIFTS.
34. CONTRACTOR SHALL NOTIFY THE CITY OF JACKSONVILLE AND JEA 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 JEA. NO TESTS SHALL BE SCHEDULED FOR WEEKENDS. ANY CHANGE FROM THE TECHNICAL REQUIREMENTS MUST BE REVIEWED AND APPROVED BY THE ENGINEER, THE CITY OF JACKSONVILLE, AND JEA.
35. THE CONTRACTOR SHALL SCHEDULE THE CONSTRUCTION OF THE PROPOSED WATER SERVICE LINES TO MAINTAIN CONTINUOUS SERVICE TO THE EXISTING BUILDINGS. ANY SHUTDOWN OF THE SYSTEM MUST BE COORDINATED WITH THE OWNER WITH A MINIMUM OF 48 HOURS NOTICE.
36. THE CONTRACTOR SHALL PREPARE AND SUBMIT AS-BUILT DRAWINGS AND SHALL COORDINATE THEIR APPROVAL WITH JEA, THE CITY OF JACKSONVILLE, AND THE ENGINEER.

BRIDEGROOM APOSTOLIC CHURCH
S.W. CORNER OF TARLING AVENUE AND FINCH AVENUE

GEOMETRIC AND UTILITY PLAN

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FLA. CERTIFICATION NO. CGC026018

No.	Revisions	Date	By
1	PER JEA COMMENTS	02-09-06	WES
2	PER COJ 10 SET, SJRWMD RAI	03-04-09	WES
3	PER HRS	03-25-09	WES
4	PER COJ 10 SET FINAL	03-25-09	WES
5	PER COJ 10 SET	04-06-09	WES
6	PER DCHD	04-27-09	WES
7			

Date	01-27-09
Scale	1"=20'
Drawn	WES
Checked By	WET
Job	09-003
Sheet	C3

NOT RELEASED FOR CONSTRUCTION