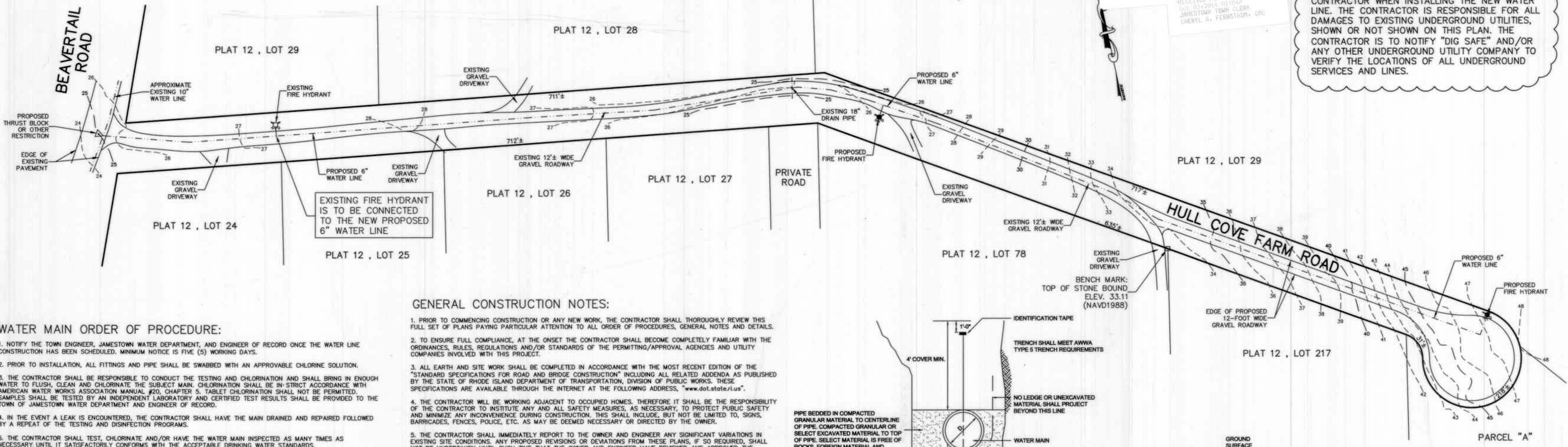


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Oct 02, 2014 01:00P
JAMESTOWN TOWN CLERK
CHERYL A. FERSTROM, CLC

EXTREME CARE IS TO BE TAKEN BY THE CONTRACTOR WHEN INSTALLING THE NEW WATER LINE. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO EXISTING UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN ON THIS PLAN. THE CONTRACTOR IS TO NOTIFY "DIG SAFE" AND/OR ANY OTHER UNDERGROUND UTILITY COMPANY TO VERIFY THE LOCATIONS OF ALL UNDERGROUND SERVICES AND LINES.



GENERAL CONSTRUCTION NOTES:

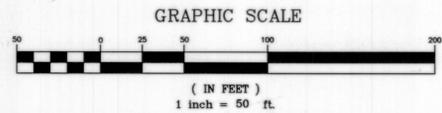
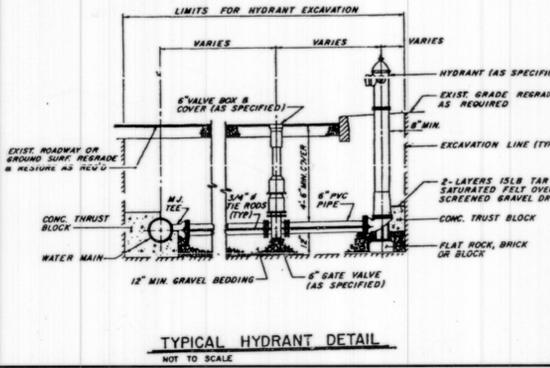
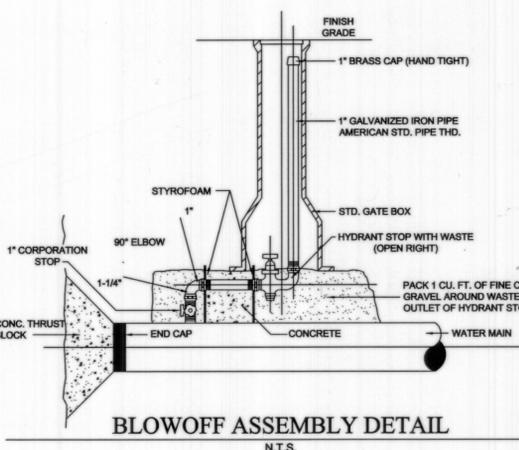
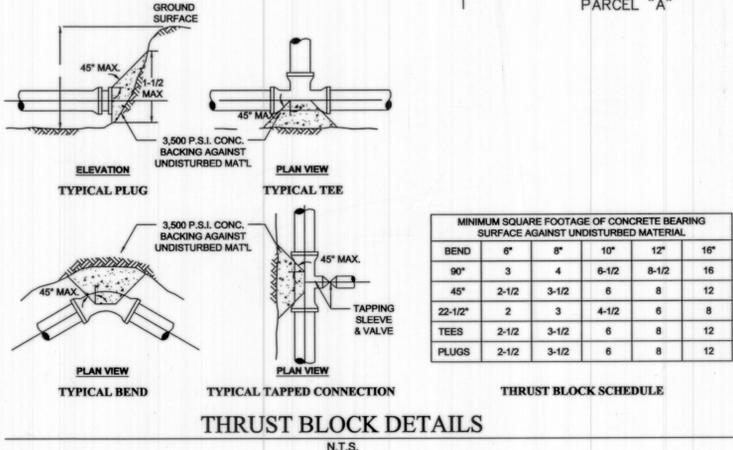
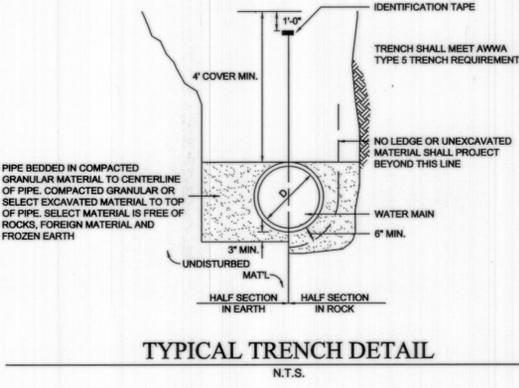
- PRIOR TO COMMENCING CONSTRUCTION OR ANY NEW WORK, THE CONTRACTOR SHALL THOROUGHLY REVIEW THIS FULL SET OF PLANS PAYING PARTICULAR ATTENTION TO ALL ORDER OF PROCEDURES, GENERAL NOTES AND DETAILS.
- TO ENSURE FULL COMPLIANCE, AT THE ONSET THE CONTRACTOR SHALL BECOME COMPLETELY FAMILIAR WITH THE ORDINANCES, RULES, REGULATIONS AND/OR STANDARDS OF THE PERMITTING/APPROVAL AGENCIES AND UTILITY COMPANIES INVOLVED WITH THIS PROJECT.
- ALL EARTH AND SITE WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" INCLUDING ALL RELATED ADDENDA AS PUBLISHED BY THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION, DIVISION OF PUBLIC WORKS. THESE SPECIFICATIONS ARE AVAILABLE THROUGH THE INTERNET AT THE FOLLOWING ADDRESS: "www.dot.state.ri.us".
- THE CONTRACTOR WILL BE WORKING ADJACENT TO OCCUPIED HOMES. THEREFORE IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE ANY AND ALL SAFETY MEASURES, AS NECESSARY, TO PROTECT PUBLIC SAFETY AND MINIMIZE ANY INCONVENIENCE DURING CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, SIGNS, BARRICADES, FENCES, POLICE, ETC. AS MAY BE DEEMED NECESSARY OR DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS. ANY PROPOSED REVISIONS OR DEVIATIONS FROM THESE PLANS, IF SO REQUIRED, SHALL NOT BE UNDERTAKEN UNTIL SUCH TIME THAT THE OWNER AND ENGINEER HAVE REVIEWED AND APPROVED THE CHANGE(S).
- THE LOCATION, SIZE AND DEPTH OF ALL EXISTING UTILITY SERVICES, AS SHOWN, ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE LOCATIONS OF EXISTING LATERALS AND/OR DWELLING SERVICES ARE UNKNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND FIELD VERIFYING THESE LOCATIONS AS WELL AS TO COORDINATE ALL WORK WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO TAPPING INTO, CONNECTING TO, EXTENDING OR CROSSING THEM. IN THE EVENT THE PROPOSED WORK PRESENTS A CONFLICT WITH ANY EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO CONTINUING WITH THE WORK.
- PRIOR TO ANY SITE DISTURBANCE OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT "DIG SAFE", (1-800-225-4977) A MINIMUM OF 72 HOURS IN ADVANCE. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATIONS OF EXISTING DWELLING LATERALS. THESE MAY INCLUDE BUT ARE NOT LIMITED TO SEWER, GAS, ELECTRIC, ETC.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ALL NECESSARY TRAFFIC CONTROLS TO PROTECT THE SAFETY OF VEHICULAR TRAFFIC AT ALL TIMES.
- UTILITY TRENCHES SHALL BE BACKFILLED TO A MINIMUM DEPTH OF SIX INCHES (6") ABOVE THE TOP OF PIPE WITH CLEAN, BANK RUN GRAVEL HAVING NO STONE LARGER THAN THREE INCHES (3"). FILL SHALL BE PLACED IN TWELVE INCH (12") LIFTS MAXIMUM AND MECHANICALLY COMPACTED TO 95% MODIFIED PROCTOR DRY DENSITY MINIMUM.
- IN ALL LOCATIONS WHERE A DRAIN PIPE OR CULVERT CROSSES A WATER MAIN THERE IS TO BE A MINIMUM TWELVE INCH (12") CLEAR SEPARATION BETWEEN THE TWO PIPES. WHERE A SEWER AND WATER MAIN CROSS AND THE SEPARATION DISTANCE IS LESS THAN EIGHTEEN INCHES (18") THE SEWER MAIN SHALL BE ENCASED IN CONCRETE TEN FEET (10') TO EITHER SIDE OF THE CROSSING.
- NO LEDGE, BOULDERS OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN SIX INCHES (6") OF THE WATER AND SEWER MAINS IN THE TRENCH, NOR SHALL THEY BE USED IN THE BACKFILL FOR A MINIMUM HEIGHT OF TWELVE INCHES (12") ABOVE THE MAIN.
- ALL MATERIALS AND PRODUCTS UTILIZED FOR CONSTRUCTION WITHIN ANY TRAVELWAY LOCATION SHALL BE RATED FOR H-20 LOADING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITY SERVICES, STRUCTURES AND ADJUTING PROPERTIES, ETC. ANY SUCH DAMAGE CAUSED AS A RESULT OF ACTION TAKEN BY THE CONTRACTOR OR HIS SUB-CONTRACTORS SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY. THE COST OF REPAIR OR REPLACEMENT SHALL BE BORNE SOLELY BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REGULARLY INSPECT THE GROUNDS AND PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE ANY LOOSE CONSTRUCTION DEBRIS TO PREVENT SUCH MATERIAL(S) FROM LEAVING THE CONSTRUCTION SITE.
- ALL LABOR, MATERIALS, EQUIPMENT AND UTILITIES NECESSARY TO COMPLETE THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. LIKEWISE, IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY SECURITY MEASURES WHICH MAY BE WARRANTED TO PROTECT THESE CONSTRUCTION MATERIALS AND EQUIPMENT WHILE ON-SITE.
- ALL WORK SHALL BE COMPLETED IN A SATISFACTORY, SAFE, WORKMANLIKE MANNER. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO OBEY ALL OSHA, LOCAL, STATE AND OTHER FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL ALSO COMPLETE ALL WORK IN STRICT COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL LAWS, REGULATIONS AND PROCEDURES. THE CONTRACTOR SHALL BE OBLIGATED FOR ALL COSTS AND REQUIRED REMEDIAL ACTION RELATIVE TO ANY FINES, CITATIONS, OR LOST PRODUCTION DUE TO WORK STOPPAGES CAUSED BY ANY VIOLATIONS IN THIS REGARD.
- THE CONTRACTOR SHALL EMPLOY ANY AND ALL PRECAUTIONS AND CONTROLS, AS NECESSARY, TO PREVENT EROSION AND SEDIMENTATION. ALL WORK AND MATERIALS, IN ADDITION TO THAT SPECIFIED HEREIN, SHALL BE CONSISTENT WITH THE STANDARD PRACTICES AND ACCEPTABLE CONSTRUCTION METHODS COMMONLY UTILIZED IN THE INDUSTRY. THE CONTRACTOR SHALL ALSO TAKE APPROPRIATE MEASURES AS REQUIRED TO MINIMIZE AND CONTROL DUST.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND THE COMPUTING OF ANY ESTIMATES.

WATER MAIN ORDER OF PROCEDURE:

- NOTIFY THE TOWN ENGINEER, JAMESTOWN WATER DEPARTMENT, AND ENGINEER OF RECORD ONCE THE WATER LINE CONSTRUCTION HAS BEEN SCHEDULED. MINIMUM NOTICE IS FIVE (5) WORKING DAYS.
- PRIOR TO INSTALLATION, ALL FITTINGS AND PIPE SHALL BE SWABBED WITH AN APPROVABLE CHLORINE SOLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONDUCT THE TESTING AND CHLORINATION AND SHALL BRING IN ENOUGH WATER TO FLUSH, CLEAN AND CHLORINATE THE SUBJECT MAIN. CHLORINATION SHALL BE IN STRICT ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION MANUAL #20, CHAPTER 5, TABLET CHLORINATION SHALL NOT BE PERMITTED. SAMPLES SHALL BE TESTED BY AN INDEPENDENT LABORATORY AND CERTIFIED TEST RESULTS SHALL BE PROVIDED TO THE TOWN OF JAMESTOWN WATER DEPARTMENT AND ENGINEER OF RECORD.
- IN THE EVENT A LEAK IS ENCOUNTERED, THE CONTRACTOR SHALL HAVE THE MAIN DRAINED AND REPAIRED FOLLOWED BY A REPEAT OF THE TESTING AND DISINFECTION PROGRAMS.
- THE CONTRACTOR SHALL TEST, CHLORINATE AND/OR HAVE THE WATER MAIN INSPECTED AS MANY TIMES AS NECESSARY UNTIL IT SATISFACTORILY CONFORMS WITH THE ACCEPTABLE DRINKING WATER STANDARDS.
- UPON COMPLETION AND SATISFACTORY TEST RESULTS HAVE BEEN ACHIEVED, THE CONTRACTOR SHALL HAVE THE WATER LINE COMPLETED DRAINED AND BLOWN OUT.

WATER MAIN CONSTRUCTION NOTES:

- ALL WATER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AS ADMINISTERED BY THE NEWPORT WATER DEPARTMENT AND MEET WITH THE BOARD'S APPROVAL.
- PIPING SHALL BE CLASS 52 DUCTILE IRON, DOUBLE CEMENT MORTAR LINED, PUSH ON STYLE OR MECHANICAL JOINTS.
- PIPES SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C151/A21.51.
- JOINTS SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C111/A21.11.
- FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT CLASS 350 CEMENT MORTAR LINED COMPACT STYLE AMERICAN MANUFACTURED ONLY. FITTINGS SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C153/A21.53. MECHANICAL JOINTS SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C111/A21.11.
- ALL BENDS AND FITTINGS SHALL BE BRACED WITH THRUST BLOCKS AND/OR MEGALUGS OTHER THAN TEES WHICH REQUIRE A THRUST BLOCK.
- COATINGS FOR BOTH PIPES AND FITTINGS SHALL BE APPROVED FOR WATER SERVICE BY THE AMERICAN WATER WORKS ASSOCIATION AND THE ENVIRONMENTAL PROTECTION AGENCY. COATINGS SHALL MEET THE REQUIREMENTS OF ANSI/AWWA C104/A21.4.
- A 250 FOOT MINIMUM RADIUS SHALL BE USED WHEN INSTALLING WATER MAINS ALONG A CURVE. IF THIS PROVES IMPRACTICAL, PROPER FITTINGS SHALL THEN BE USED.
- DISTRIBUTION SYSTEM VALVES SHALL OPEN "RIGHT" AND BE MECHANICAL JOINT, DOUBLE DISC PARALLEL SEAT OR RESILIENT SEAT GATE STYLES AS FOLLOWS:
 - MUELLER CORPORATION DOUBLE DISC PARALLEL SEAT
 - AMERICAN DARLING VALVE RESILIENT SEAT MODEL #CRS-80
- VALVES SHALL BE EQUIPPED WITH AN ADJUSTABLE CAST IRON GATE BOX, TOP SECTION 26", BOTTOM SECTION 48" WITH 5-1/4" LID SET AT FINISHED GRADE.
- SERVICE LATERALS SHALL BE COPPER, TYPE K, BROUGHT UP TWO FEET (2') PAST THE EDGE OF PAVEMENT ENDING WITH A CURB STOP AND BOX. EACH TAP TO THE MAIN SHALL BE EQUIPPED WITH A BRONZE CORPORATION STOP.
- DEPTH OF WATER MAIN SHALL BE AT A MINIMUM OF FOUR AND ONE-HALF FEET (4-1/2') BELOW FINISHED GRADE THROUGHOUT THE INSTALLATION.
- IN THE EVENT THE NEW WATER MAIN INTERSECTS AN EXISTING UTILITY MAIN A MINIMUM OF 6-INCHES OF SAND IS TO BE PLACED BETWEEN THE WATER MAIN AND UTILITY MAIN.
- THRUST BLOCKS SHALL BE 3,500 P.S.I. CONCRETE @ 28 DAYS AND BEARING AGAINST UNDISTURBED EARTH.
- WATER MAIN SHALL BE INSTALLED IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S INSTALLATION MANUAL AND ANSI/AWWA C600.
- TRENCH SHALL BE IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION TYPE 5 TRENCH.
- A PRESSURE TEST SHALL BE PERFORMED ON THE COMPLETED WATER LINE PRIOR TO ACCEPTANCE. REFERENCE NOTE #4 UNDER WATER MAIN "ORDER OF PROCEDURE".
- TEST PRESSURE SHALL BE ONE AND ONE HALF (1-1/2) TIMES THE MAXIMUM WORKING PRESSURE OF THE SYSTEM BUT NOT LESS THAN 150 P.S.I.
- PRIOR TO PRESSURE TESTING AND/OR CHLORINATION THE ENGINEER OF RECORD SHALL BE NOTIFIED TWO (2) DAYS PRIOR TO THE DATE OF THE TEST.
- RECORD DRAWINGS OF THE PROGRESS OF WORK SHALL BE MAINTAINED ON THE JOB SITE AND AVAILABLE FOR REVIEW BY THE TOWN OF JAMESTOWN OFFICIALS AND ENGINEER OF RECORD.
- THE FIRE SERVICE SHALL BE FLUSHED, CLEANED AND CHLORINATED IN ACCORDANCE WITH CHAPTER 5, DISTRIBUTION SYSTEM CHLORINATION, AMERICAN WATER WORKS ASSOCIATION MANUAL #20. CHLORINATION TABLETS SHALL NOT BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A REPRODUCIBLE AS-BUILT DRAWING TO THE TOWN OF JAMESTOWN WATER DEPARTMENT.
- TOWN OF JAMESTOWN WATER DEPARTMENT PERSONNEL WILL INSPECT ALL MAIN/PIPING INSTALLATIONS AND WITNESS PRESSURE TESTING ETC. AT COST TO THE DEVELOPER.



I APPROVE OF THE LOT LINE CHANGES AS SHOWN ON THIS PLAN.

By: *Victor H. Reamer, Trustee*

I HEREBY CERTIFY THAT THIS SURVEY AND PLAN CONFORMS TO A CLASS 3 STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

By: *Michael R. Darveau* 9/26/14
MICHAEL R. DARVEAU, PLS#1978 DATE

SUBDIVISION APPROVED AS SUBMITTED
10/3/2014
DATE
PLANNING COMMISSION CHAIR
TOWN OF JAMESTOWN RI



NICHOLAS J. PIAMPANO
No. 8512
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

THIS STAMP IS FOR SITE DRAINAGE PURPOSES ONLY

ADVANCED CIVIL DESIGN, INC.
CIVIL ENGINEERS

7 COUNTRYSIDE LANE
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PHONE 401-475-5700
E-MAIL: DARVEAUSURVEY@COX.NET

MINOR SUBDIVISION WATER LINE EXTENSION PLAN FOR
NORTON H. REAMER 2002 TRUST
PLAT 12, LOT 29 - SUBDIVISION PARCEL "A"
HULL COVE FARM ROAD
JAMESTOWN, RHODE ISLAND

SCALE: 1" = 50'
DRAWN BY: S.A.K.
REVISIONS:
REVISED: SEPT. 26, 2014
DATE: AUG. 20, 2014
PROJECT NO: 2014_006
SHEET NO: 5 OF 5