



PROJECT OWNER AND CONSULTANTS

OWNER: CITY OF WILDWOOD MARK ODELL, UTILITY DIRECTOR 100 N. MAIN STREET WILDWOOD, FL 34785 (352) 330-1330

CIVIL ENGINEERING CONSULTANT: KIMLEY-HORN AND ASSOCIATES, INC. 1700 SE 17TH STREET, SUITE 200 OCALA, FL 34471 (352) 438-3000

SURVEYOR: R.M. BARRINEAU AND ASSOCIATES, INC. 1309 S.E. 25TH LOOP, SUITE 103 OCALA, FL 34471 (352) 622–3133

<u>GEOTECHNICAL ENGINEERING CONSULTANT:</u> GEOTECHNOLOGIES, INC. 1016 SE 3RD AVENUE OCALA, FL 34471 (352) 694-7711

UTILITY CONTACT LISTING

LEVEL 3 COMMUNICATIONS NETWORK RELATIONS (877) 366-8344

CITY OF WILDWOOD

MARK ODELL (352) 330–1346 SUMTER ELECTRIC COOP. ALAN KIMBLEY (352) 569-9644

<u>CENTURYLINK</u> JOHN BRUGNOLI (352) 368-8763

UTILITY PLANS FOR ASHLEY WTP WELL NO. 2

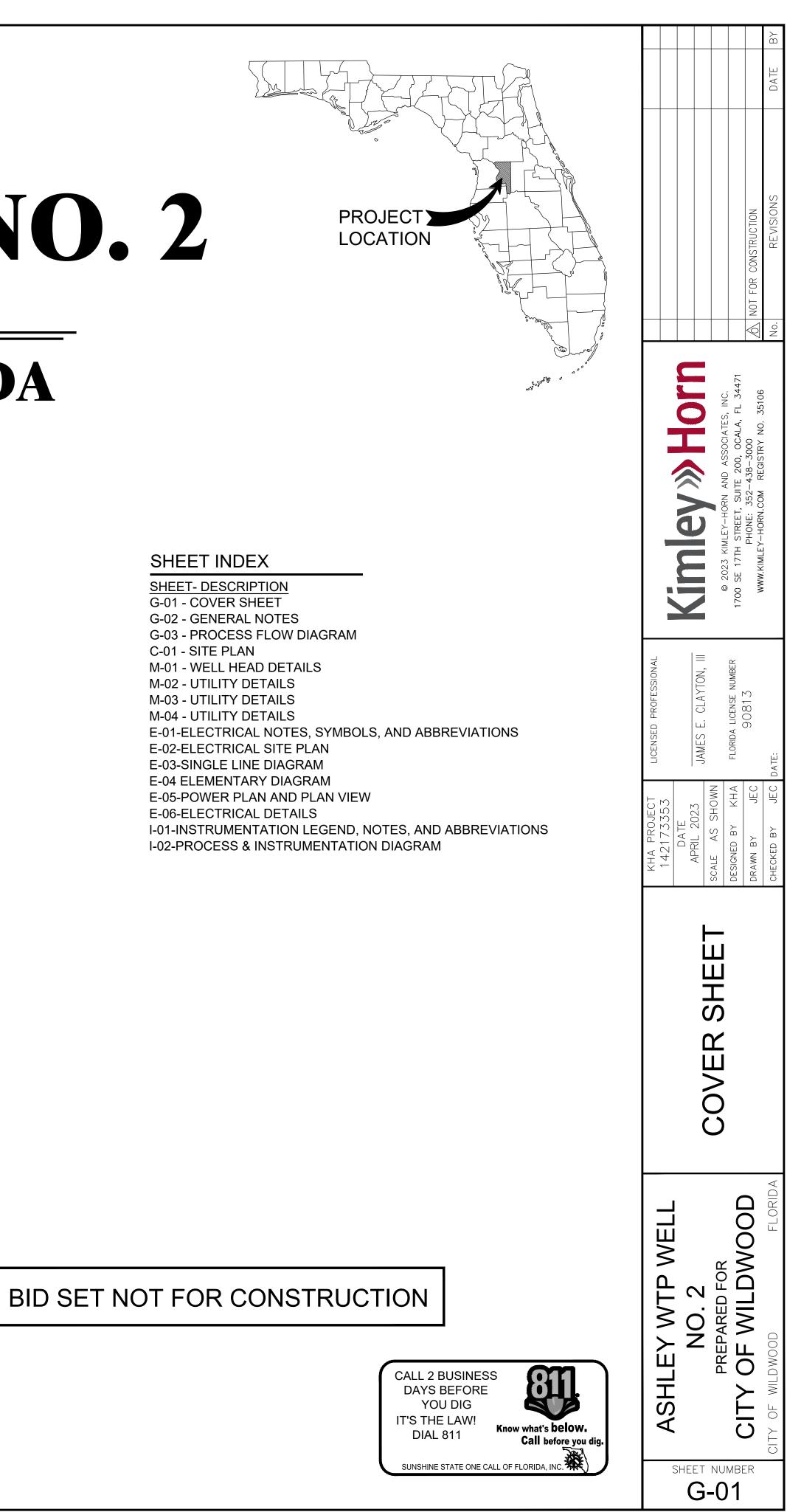
CITY OF WILDWOOD, FLORIDA

SECTION 33, TOWNSHIP 18 SOUTH, RANGE 22 EAST APRIL 2023





LOCATION MAP



GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL RELATIVE CITY OF WILDWOOD DEVELOPMENT CODE GUIDELINES UTILITY CONSTRUCTION SPECIFICATIONS AND FDEP REGULATIONS, EXCEPT AS MODIFIED HEREIN.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE WORK.
- 3. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION OF THE SITE PRIOR TO THE BEGINNING OF THE WORK. CONTRACTOR SHALL INFORM THE OWNER, COMPANY REPRESENTATIVE, UTILITY AUTHORITY AND INTERESTED COUNTY AGENCIES AT LEAST 48 HOURS PRIOR TO THE SCHEDULED INSPECTION.
- 4. THE LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE FROM A SURVEY PERFORMED BY R.M. BARRINEAU AND ASSOCIATES, INC, DATED DECEMBER 18, 2013. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM, IN THE FIELD, THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER REPRESENTATIVE PRIOR TO CONTINUING CONSTRUCTION.
- CONTRACTOR SHALL LOCATE, VERIFY AND IDENTIFY ALL EXISTING UNDERGROUND UTILITIES SHOWN, OR NOT SHOWN, ON THE PLANS PRIOR TO ANY EXCAVATING ACTIVITIES.
- 6. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEWLY CONSTRUCTED UTILITIES DURING THE CONSTRUCTION. SHOULD ANY UTILITY LINE OR COMPONENT BECOME DAMAGED OR REQUIRE RELOCATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESPONSIBLE UTILITY COMPANY. THE OWNER REPRESENTATIVE AND THE RESPONSIBLE CITY OF WILDWOOD REPRESENTATIVE.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY HIS OPERATIONS.
- 8. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH OTHER WORK WHICH MAY BE ONGOING ADJACENT TO, OR AFFECTING, THIS CONSTRUCTION. CONTRACTOR SHALL COOPERATE WITH OTHER CONTRACTORS AND ALL AFFECTED UTILITY COMPANIES. CONTRACTOR SHALL COORDINATE WITH SUMTER COUNTY TO DETERMINE PERMISSIBLE WORKING HOURS.
- 9. CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES 48 HOURS PRIOR TO THE INITIATING OF ANY EXCAVATION ACTIVITIES, OR AS SPECIFIED BY THE UTLITY COMPANY AND ANY PERMITS REQUIRED FOR THE WORK.
- 10. CONTRACTOR SHALL PROTECT EXISTING UTILITIES, SURVEY MARKERS, MONUMENTS, ETC. DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE/REPLACE ANY DAMAGE DURING CONSTRUCTION ACTIVITIES.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL/DISPOSAL OF ANY UNSUITABLE MATERIAL FROM THE CONSTRUCTION OPERATION, FURNISHING AND COMPACTING SUITABLE REPLACEMENT BACKFILL MATERIAL. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- 12. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE EROSION AND TURBIDITY CONTROLS IN ACCORDANCE WITH FDEP DURING AND FOLLOWING CONSTRUCTION. UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED TO AVOID ADVERSE ENVIRONMENTAL IMPACTS TO OFF-SITE PROPERTY AND DRAINAGE SYSTEMS.
- 13. CONTRACTOR SHALL SOD ALL AREAS DISTURBED BY THE CONSTRUCTION ACCORDING TO LOCAL REGULATIONS.
- 14. CONTRACTOR SHALL MAINTAIN "AS-BUILT" INFORMATION ON A REGULAR BASIS. CONTRACTOR SHALL EMPLOY THE SERVICES OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO DETERMINE ALL "AS-BUILT" INFORMATION. WITHIN 14 DAYS OF THE COMPLETION OF THE WORK, CONTRACTOR SHALL PROVIDE SIGNED AND SEALED COPIES AND THE DIGITAL CAD FILE OF THE "AS-BUILT" DRAWINGS AND SUPPORTING SURVEY RECORDS TO THE COMPANY REPRESENTATIVE. CAD FILES SHALL BE IN THE AUTOCAD FORMAT.
- 15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRODUCE, SUBMIT, AND OBTAIN APPROVAL OF THE REPRODUCIBLE AS-BUILT DRAWINGS FOR ANY JURISDICTIONAL AGENCIES AS MAY BE REQUIRED.
- 16. CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS NOTICE OF ALL MEETINGS OR TESTING MEASURES REQUIRED TO BE WITNESSED BY THE CONSTRUCTION ACTIVITIES RELATED TO THE WORK.
- 17. CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF THREE (3) BUSINESS DAYS NOTICE FOR ANY FINAL INSPECTION.
- 18. THE VERTICAL DATUM FOR THE PROJECT IS IN NAVD 88 AND IS BASED OFF OF NGS CONTROL POINTS M 603 AND R 753, FROM A SURVEY BY R.M. BARRINEAU AND ASSOCIATES. DATED DECEMBER 18, 2013.

UTILITY NOTES:

1. MATERIALS FOR THE SANITARY SEWER AND WATER SYSTEM ARE SPECIFIED AS FOLLOWS:

- A. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/ASTM C150/A21.50-81 CLASS 51 OR GREATER FITTINGS SHALL CONFORM TO AWWA/ANSI C110/A21.10-82 OR AWWA/ANSI C153/A21.53, 350 PSI MINIMUM PRESSURE RATING. FITTINGS SHALL BE COATED ON THE INSIDE WITH PROTECTO 401, A CERAMIC EPOXY LINING, AND A BITUMINOUS COATING ON THE OUTSIDE UNLESS SPECIFIED OTHERWISE. JOINTS SHALL CONFORM TO ANSI/AWWA C111/A21.11-80. NO JOINT DEFLECTION SHALL EXCEED 75% OF MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER.
- B. POLYVINYL CHLORIDE (PVC), PRESSURE PIPE 4"-60" SHALL MEET AWWA C900 CLASS 150, DR 18, CRITERIA AND HAVE A WORKING PRESSURE OF 150 PSI. ALL PIPE SHALL BE BLUE IN COLOR. PIPE JOINTS SHALL BE MADE WITH INTEGRAL BELL AND SPIGOT PIPE ENDS. NO JOINT DEFLECTION SHALL EXCEED 75% OF MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER. THE GASKET SHALL MEET THE REQUIREMENTS OF ASTM F-477.
- C. FUSIBLE POLYVINYL CHLORIDE (PVC) PIPE SHALL BE MANUFACTURED UNDER THE TRADE NAMES FUSIBLE C-900® FOR UNDERGROUND SOLUTIONS, INC.
- D. HIGH DENSITY POLYETHYLENE PIPE, (HDPE), SHALL MEET ASTM F-714 AND ASTM D3550 (PE 4710) CRITERIA. ALL JOINTS SHALL BE FIELD-WELDED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. PIPE SHALL BE IPS SIZED.
- E. VALVES: VALVES TWO INCHES THROUGH 16 INCHES SHALL BE MUELLER (OR APPROVED ALTERNATIVE) RESILIENT SEAT GATE VALVE, MODIFIED WEDGE DISC TYPE, SUITABLE FOR DIRECT EARTH BURIAL, SUITABLE FOR MECHANICAL JOINT AND TO COMPLY WITH AWWA SPECIFICATIONS. VALVES DEEPER THAN FIVE FEET (5') WILL REQUIRE VALVE NUT EXTENSIONS, MUST BE WELDED AND ONE-PIECE.
- F. VALVE BOXES (PROVIDED FOR ALL VALVES INSTALLED UNDERGROUND): CAST IRON, WITH A MINIMUM INTERIOR DIAMETER OF 5 INCHES, ADJUSTABLE TO FIT THE DEPTH OF EARTH COVER OVER THE VALVES, DESIGNED TO PREVENT THE TRANSMISSION OF SURFACE LOADS DIRECTLY TO THE VALVE PIPING. PROVIDE COVERS MARKED "WATER" CONSTRUCTED AS TO PREVENT TIPPING OR RATTLING.
- G. MECHANICAL JOINT RESTRAINT, FOR PVC PIPE, SHALL BE INCORPORATED INTO THE DESIGN OF THE FOLLOWER GLAND. THE RESTRAINT MECHANISM SHALL CONSIST OF A PLURALITY OF INDIVIDUALLY ACTUATED GRIPPING SURFACES TO MAXIMIZE RESTRAINT CAPABILITY. GLANDS SHALL BE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536-80. THE GLAND SHALL BE SUCH THAT IT CAN REPLACE THE STANDARDIZED MECHANICAL JOINT GLAND AND CAN BE USED WITH THE STANDARDIZED MECHANICAL JOINT BELL CONFORMING TO ANSI/AWWA C111/A21.11 AND ANSI/AWWA C153/A21.53 OF LATEST REVISION. TWIST OFF NUTS, SIZED SAME AS TEE-HEAD BOLTS, SHALL BE USED TO INSURE PROPER ACTUATING OF RESTRAINING DEVICES. THE RESTRAINING GLAND SHALL HAVE A PRESSURE RATING EQUAL TO THAT OF THE PIPE ON WHICH IT IS USED. THE RESTRAINING GLANDS SHALL HAVE BEEN TESTED TO UNI-B-13-92, BE LISTED BY UNDERWRITERS LABORATORIES, AND BE APPROVED BY FACTORY MUTUAL. THE RESTRAINT SHALL BE THE EBAA IRON SERIES 2000PV OR APPROVED EQUAL.
- H. RESTRAINT RINGS FOR C-900 PVC PIPE BELLS SHALL BE MADE OF DUCTILE IRON COMPONENTS. ALL DUCTILE IRON SHALL CONFORM TO ASTM A536. A SPLIT RING SHALL BE USED BEHIND THE BELL AND A SERRATED RESTRAINT RING SHALL BE USED TO GRIP THE PIPE. A SUFFICIENT NUMBER OF BOLTS SHALL BE USED TO CONNECT THE BELL RING AND THE PIPE RING. THE COMBINATION SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 150 PSI. THE RESTRAINT SHALL BE THE SERIES 1500 AS PRODUCED BY THE EBAA IRON, INC. OR APPROVED EQUAL.
- 2. PIPE LAYING: INSTALL THE PIPING SYSTEMS COMPLETE, TESTED AND READY FOR OPERATION. CLEAN EACH PIPE AND FITTING AND INSPECT FOR DEFECTS. DEFECTIVE PORTIONS OF PIPE WILL BE CUT OFF AT LEAST 12 INCHES BEYOND VISIBLE CRACKS OR DEFECTS. LAY PIPE STRAIGHT AND LEVEL, WITH CHANGES IN GRADE AND/OR ALIGNMENT MADE WITHIN PIPE MANUFACTURER'S TOLERANCES. ANY PIPE THAT IS NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER LAYING WILL BE REMOVED AND RE-LAID BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION. SECURELY CLOSE ALL OPEN ENDS OF PIPES AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. USE CARE TO PREVENT FLOATATION. LAY PIPE DIRECTLY ON THE TRENCH BOTTOM. SHAPE THE BOTTOM OF THE TRENCH TO PROVIDE FIRM SUPPORT FOR THE PIPE ALONG ITS ENTIRE LENGTH. EXCAVATE SUITABLE HOLES FOR JOINTS TO ALLOW THE MAKING AND ASSEMBLING OF THE JOINTS. PIPING SHALL BE MARKED IN ACCORDANCE WITH LOCAL CODES AND **REGULATIONS.**
- 3. THE BACKFILLING OPERATION SHALL BE IN ACCORDANCE WITH CITY OF WILDWOOD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- 4. PIPE DEPTH AND PROTECTION: THE STANDARD MINIMUM COVER FOR SANITARY SEWER AND WATER SYSTEMS SHALL BE 3 FEET FROM THE TOP OF THE PIPE TO FINISH GRADE. SHOULD THIS DESIGN NOT BE FEASIBLE. DUCTILE IRON PIPE. CLASS 52. SHALL BE SUBSTITUTED. WHERE WATERWAYS, CANALS, DITCHES OR OTHER CUTS ARE CROSSED, DUCTILE IRON PIPE OR OTHER APPROVED METHODS SHALL BE CONSTRUCTED. WHERE A WATER MAIN CROSSES EITHER ABOVE OR BELOW AN EXISTING OR PROPOSED SANITARY HAZARD (STORM, SANITARY OR REUSE PIPE) WITH LESS THAN 12 INCHES OF CLEARANCE, THEN EITHER THE WATER MAIN OR THE SANITARY HAZARD SHALL BE (1) A SOLID LENGTH OF CLASS 52 DIP FOR 18 FEET CENTERED ON THE POINT OF CROSSING OR (2) ENCASED IN CONCRETE CENTERED ON THE POINT OF CROSSING. THE MINIMUM HORIZONTAL SEPARATION BETWEEN A WATER MAIN AND A SANITARY HAZARD SHALL BE 10 FEET. WHERE A SEPARATION OF 10 FEET BETWEEN A WATER MAIN AND A SANITARY HAZARD CAN NOT BE MAINTAINED, THEN EITHER THE WATER MAIN OR THE SANITARY HAZARD SHALL BE (1) CLASS 52 DIP OR (2) ENCASED IN CONCRETE.
- 5. JOINT RESTRAINING: PRESSURE PIPING FITTINGS AND OTHER ITEMS REQUIRING RESTRAINT, SHALL BE BRACED WITH "MEGALUGS" OR OTHER RESTRAINING ASSEMBLIES, AS SHOWN ON DETAIL SHEET. SAID RESTRAINING DEVICES SHALL BE DESIGNED FOR THE MAXIMUM PRESSURE CONDITION (TESTING) AND THE SAFE BEARING LOADS FOR HORIZONTAL THRUST.
- 6. VALVES: CAREFULLY INSPECT, OPEN WIDE, THEN TIGHTLY CLOSE EACH VALVE. TEST THE VARIOUS NUTS AND BOLTS FOR TIGHTNESS. TAKE SPECIAL CARE TO PREVENT JOINT MATERIALS, STONES, OR OTHER SUBSTANCES FROM BECOMING LODGED IN THE VALVE SEAT. SET VALVES, UNLESS OTHERWISE SHOWN, WITH THEIR STEMS VERTICALLY ABOVE THE CENTERLINE OF THE PIPE. ADJUST ALL VALVES FOR PROPER OPERATION. DEFECTIVE VALVES WILL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

- SUPPORT RING.
- 8. TESTING:
 - DURING TESTING.
- REQUIRED.
- DETERMINED BY THE FOLLOWING FORMULA: SD X (P) 1/2

- S = LENGTH OF PIPE TESTED. IN FEET
- D = NOMINAL DIAMETER OF THE PIPE IN INCHES
- SQUARE INCH GUAGE
- SAID CONTAINER.
- ANY AND ALL RE-TESTS.
- BURIED FORCE MAIN BELOW.
- 10. DISINFECTING:
- SPECIFIC FDEP PERMIT REQUIREMENTS. 11. WELL SAMPLING
- AND TURBIDITY.
- FAC 62-550, INCLUDING ASBESTOS.
- ADDITIONAL COMPENSATION.
- 12. SEPARATION REQUIREMENTS: RULE 62-55.314.

7. VALVES BOXES: CAREFULLY CENTER VALVES BOXES OVER THE OPERATING NUTS OF THE VALVES SO AS TO PERMIT A VALVE KEY TO BE EASILY FITTED TO THE OPERATING UNIT. SET THE TOPS OF THE BOXES FLUSH WITH FINISHED GRADE, MAKING ALLOWANCE FOR SETTLEMENT OF THE SURROUNDING BACKFILL OR SURFACE. INSTALL VALVE BOXES SO THAT THEY DO NOT TRANSMIT SURFACE LOADS DIRECTLY TO EITHER THE PIPING OR VALVE. TAKE CARE TO PREVENT EARTH AND OTHER MATERIAL FROM ENTERING THE VALVE BOXES. DIG OUT AND ADJUST TO FINISH GRADE ANY VALVE BOX THAT IS OUT OF ALIGNMENT OR IS NOT FLUSH WITH THE FINISHED SURFACE, AND WHEN REQUIRED, PROVIDE A CONCRETE

A. THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL WATER SYSTEMS, AS SET FORTH IN THE FOLLOWING, AND SHALL CONDUCT SAID TESTS IN THE PRESENCE OF REPRESENTATIVES FROM THE CITY OF WILDWOOD AND THE ENGINEER, WITH 3 DAYS ADVANCE NOTICE PROVIDED. ALL JOINTS WILL REMAIN UNCOVERED UNTIL THE TESTING IS COMPLETE UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. THE ENGINEER AND A REPRESENTATIVE FROM THE ENGINEER AND THE CITY OF WILDWOOD SHALL BE PRESENT

B. PIPING AND APPURTENANCES TO BE TESTED SHALL BE WITHIN SECTIONS BETWEEN VALVES, UNLESS ALTERNATIVE METHODS HAVE RECEIVED PRIOR APPROVAL FROM THE CITY OF WILDWOOD. TESTING SHALL NOT PROCEED UNTIL ALL RESTRAINING DEVICES ARE INSTALLED. ALL PIPING SHALL BE THOROUGHLY CLEANED AND FLUSHED PRIOR TO TESTING TO CLEAR THE LINES OF ALL FOREIGN MATTER. WHILE THE PIPING IS BEING FILLED WITH WATER, CARE SHALL BE EXERCISED TO PERMIT THE ESCAPE OF AIR FROM EXTREMITIES OF THE TEST SECTION, WITH ADDITIONAL RELEASE COCKS PROVIDED IF

C. HYDROSTATIC TESTING SHALL BE PERFORMED AT 150 PSI. MAINTAIN THE TEST PRESSURE FOR AT LEAST 2 HOURS AND UNTIL ALL EXPOSED PORTIONS OF THE PIPE HAVE BEEN INSPECTED FOR WATER-TIGHTNESS. TESTING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS AS SET FORTH IN SECTION 13 OF AWWA STANDARD C600. THE ALLOWABLE RATE OF LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR

L = ALLOWABLE LEAKAGE IN GALLONS PER HOUR

P = AVERAGE TEST PRESSURE MAINTAINED DURING THE LEAKAGE TEST IN POUNDS PER

D. THE TESTING PROCEDURE SHALL INCLUDE THE CONTINUED APPLICATION OF THE SPECIFIED PRESSURE TO THE TEST SYSTEM, FOR THE 2 HOUR PERIOD, BY WAY OF A PUMP TAKING SUPPLY FROM A CONTAINER SUITABLE FOR MEASURING WATER LOSS. THE AMOUNT OF LOSS SHALL BE DETERMINED BY MEASURING THE VOLUME DISPLACED FROM

E. SHOULD THE TEST FAIL, NECESSARY REPAIRS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AND THE TEST REPEATED UNTIL WITHIN THE ESTABLISHED LIMITS. THE CONTRACTOR SHALL FURNISH THE NECESSARY LABOR, WATER, PUMPS, GAUGES AND ALL OTHER ITEMS REQUIRED TO CONDUCT THE REQUIRED WATER DISTRIBUTION SYSTEM TESTING AND PERFORM NECESSARY REPAIRS. THE CONTRACTOR SHALL BE BILLED FOR

9. DETECTABLE BURIED WARNING TAPE AND COPPER LOCATION WIRE:

A. DETECTABLE BURIED PIPE WARNING TAPE SHALL BE 2 INCHES MINIMUM WIDTH, LONG LASTING PLASTIC WITH METALIZED FOIL CORE SPECIFICALLY DESIGNED FOR NON-METALLIC PIPES AND SHALL BE PLACED OVER ALL PVC WATER LINES AND FITTINGS. METALIZED CORE SHALL BE DETECTABLE TO DEPTHS OF UP TO 6 FEET BY USE OF COMMERCIALLY AVAILABLE PIPE LOCATION EQUIPMENT. TAPE SHALL BE FURNISHED IN MANUFACTURER'S STANDARD COLOR AND ROLL LENGTH AND SHALL BE IMPRINTED CONTINUOUSLY WITH THE FOLLOWING WORDS UNLESS OTHERWISE APPROVED: CAUTION

B. IN ADDITION TO THE INSTALLATION OF THE DETECTABLE BURIED WARNING TAPE OVER ALL PVC SEWER LINES, THE CONTRACTOR SHALL INSTALL AN 10 GAUGE INSULATED COPPER WIRE DIRECTLY ON TOP OF ALL PVC SEWER LINES AND TAPED EVERY TEN FEET FOR LOCATION PURPOSES. THE WIRE SHALL BE CONTINUOUS AND ALL CONNECTIONS TAPED. THREE FEET OF EXCESS WIRE SHALL BE LEFT IN ALL VALVE BOXES.

A. DISINFECTING THE WATER MAIN AND CONDUCTING BACTERIOLOGICAL SURVEYS AN EVALUATIONS MUST BE DONE IN ACCORDANCE WITH AWWA C551. B. UPON COMPLETION OF THE FLUSHING AND DISINFECTION OF THE WATER LINES. THE CONTRACTOR SHALL HAVE WATER SAMPLES TESTED FOR BACTERIOLOGICAL MAIN CLEARANCE IN ACCORDANCE WITH F.A.C. 62-55.315(6), 62-555.330 AND THE PROJECT

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE WELL AS FOLLOWS: TEN (10) SAMPLE BACTERIOLOGICAL SURVEYS FROM THE WELL. NO MORE THAN TWO SAMPLES MAY BE TAKEN EACH DAY AND MUST BE AT LEAST 6 HOURS APART. 2. WATER QUALITY TESTING FOR TOTAL SULFIDES, ALKALINITY, DISSOLVED OXYGEN,

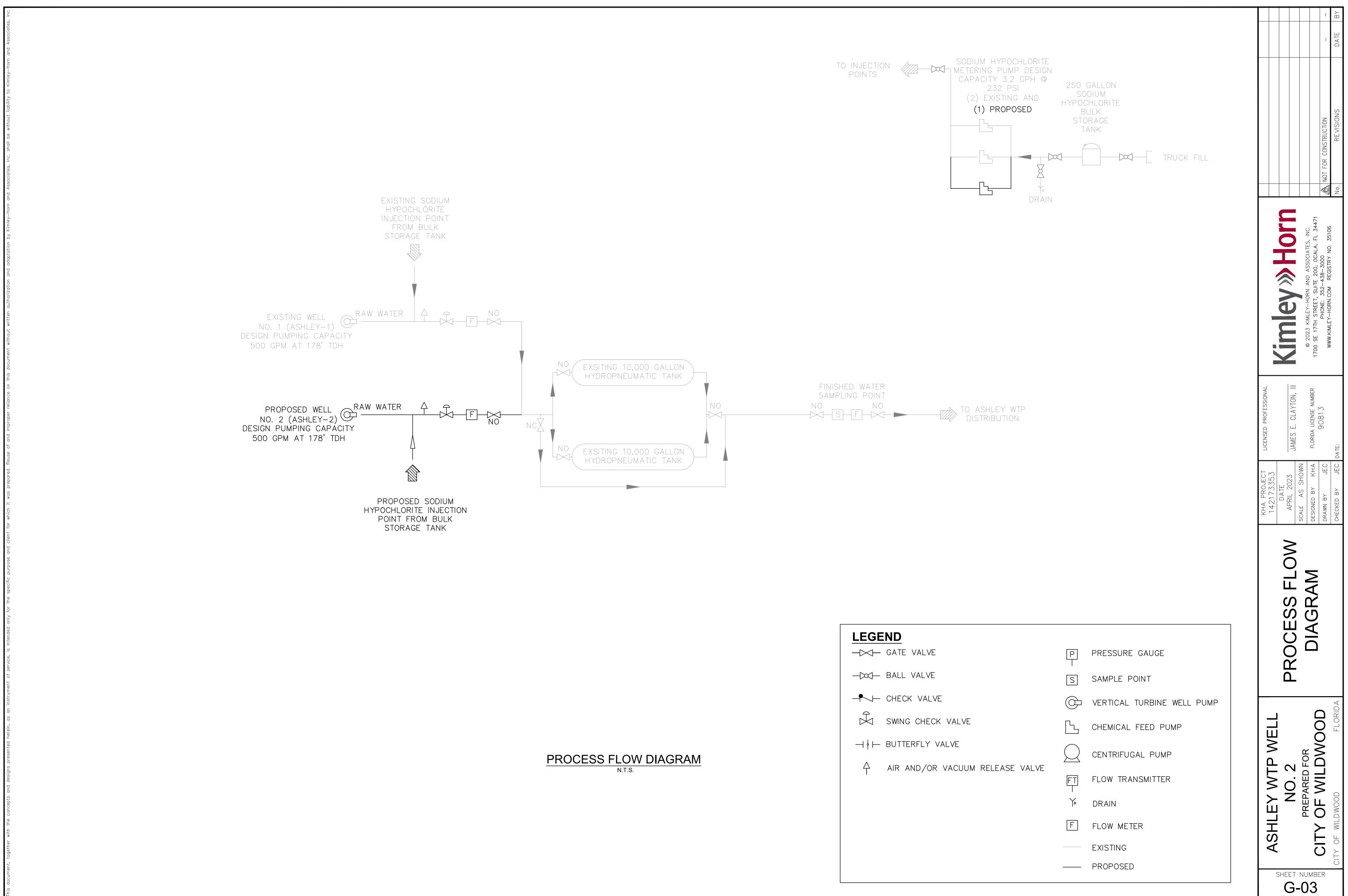
3. WATER QUALITY TESTING FOR PRIMARY INORGANIC CONTAMINANTS AS SPECIFIED IN

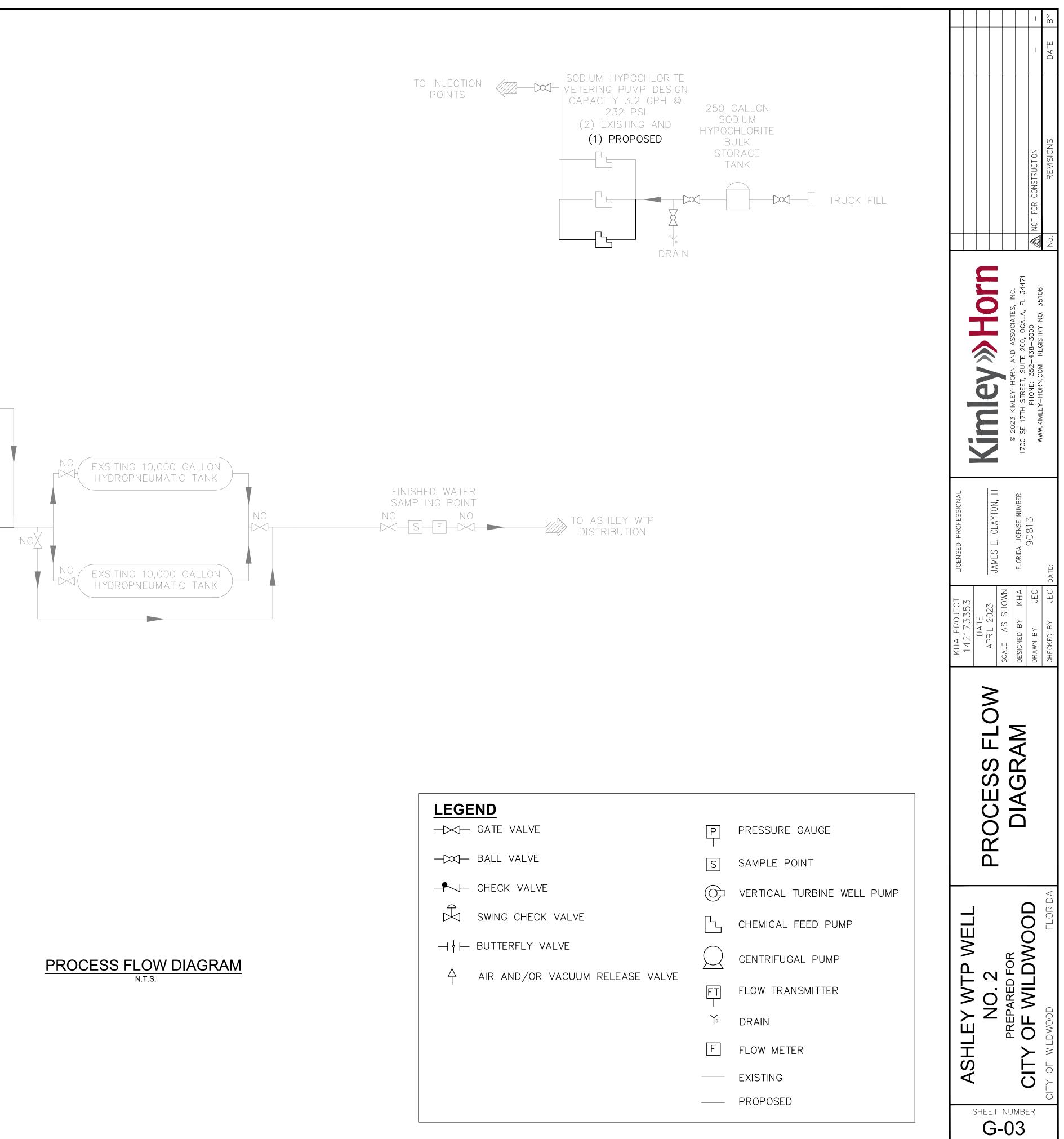
ALL SAMPLING SHALL BE PERFORMED BY A NELAC CERTIFIED LABORATORY. COPIES OF THE RESULTS SHALL BE FORWARDED TO THE CITY AND ENGINEER. ANY RESAMPLING THAT IS REQUIRED SHALL BE DONE AT THE CONTRACTOR'S EXPENSE WITHOUT

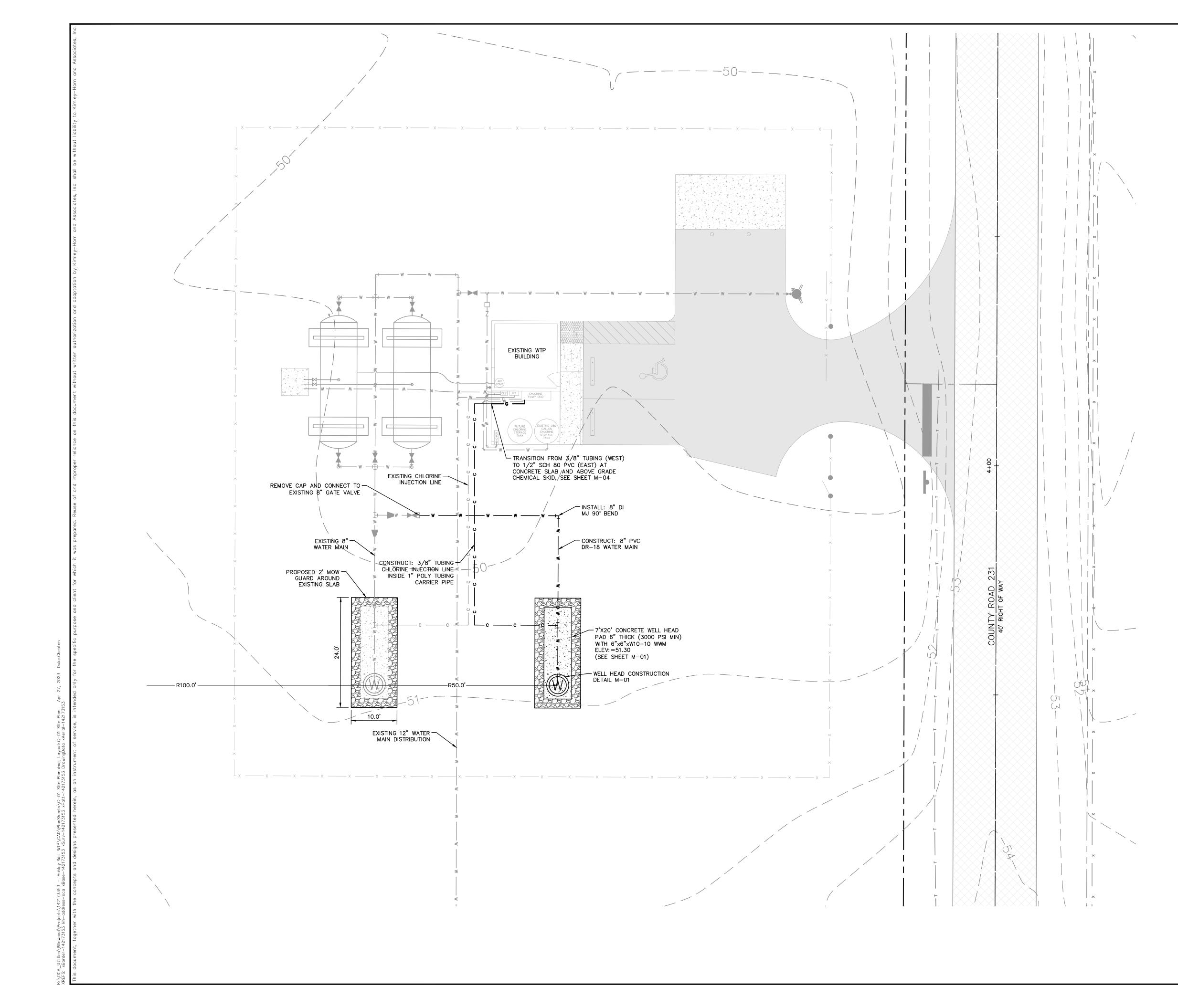
A. THE LOCATION OF PUBLIC WATER SYSTEM MAINS SHOULD BE IN ACCORDANCE WITH F.A.C.

				© 2023 KIMLET-HUKN AND ASSUCIATES, INC. 1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471	PHONE: 352-438-3000	No. REVISIONS DATE BY
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			GENERAL NOTES			
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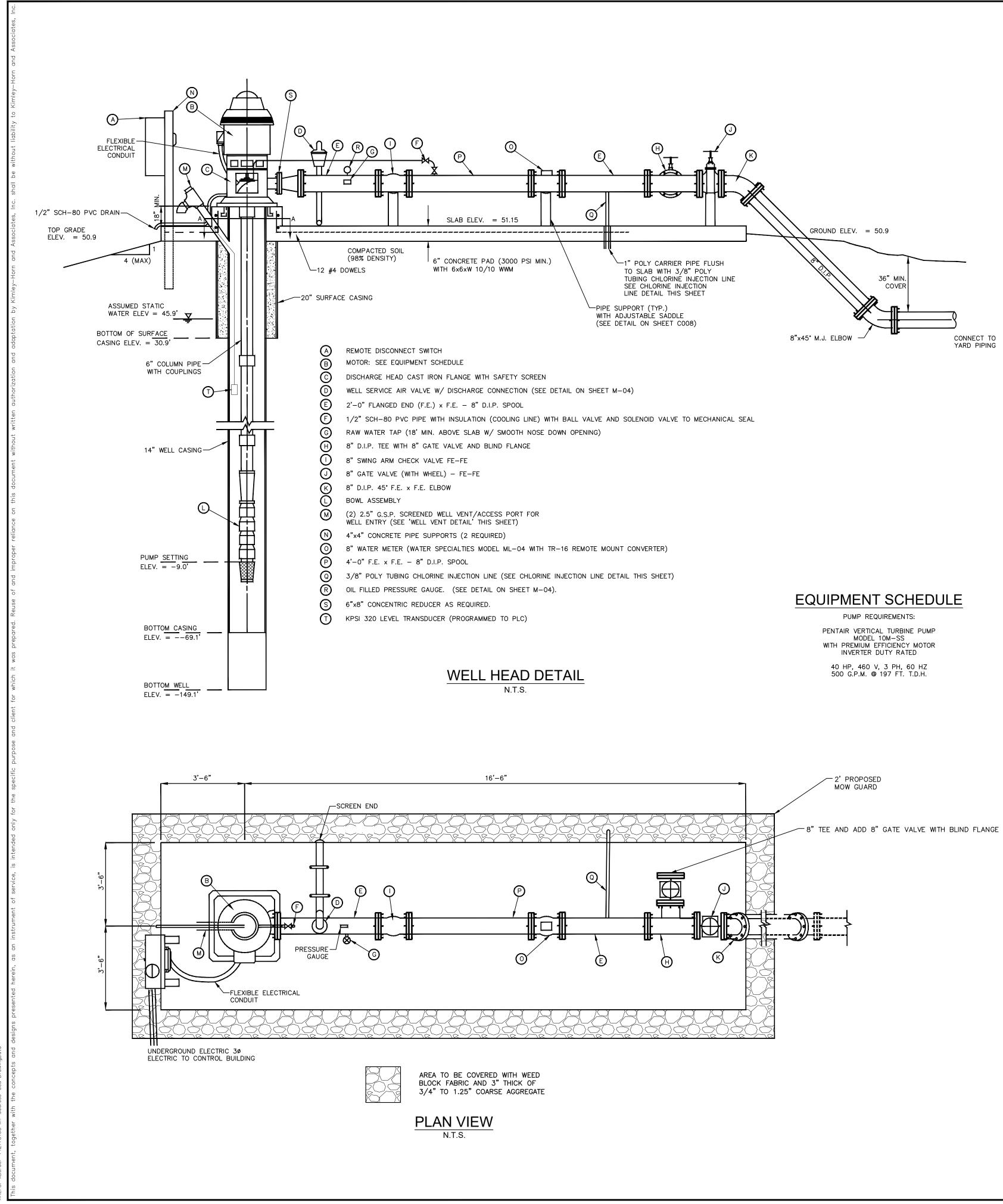
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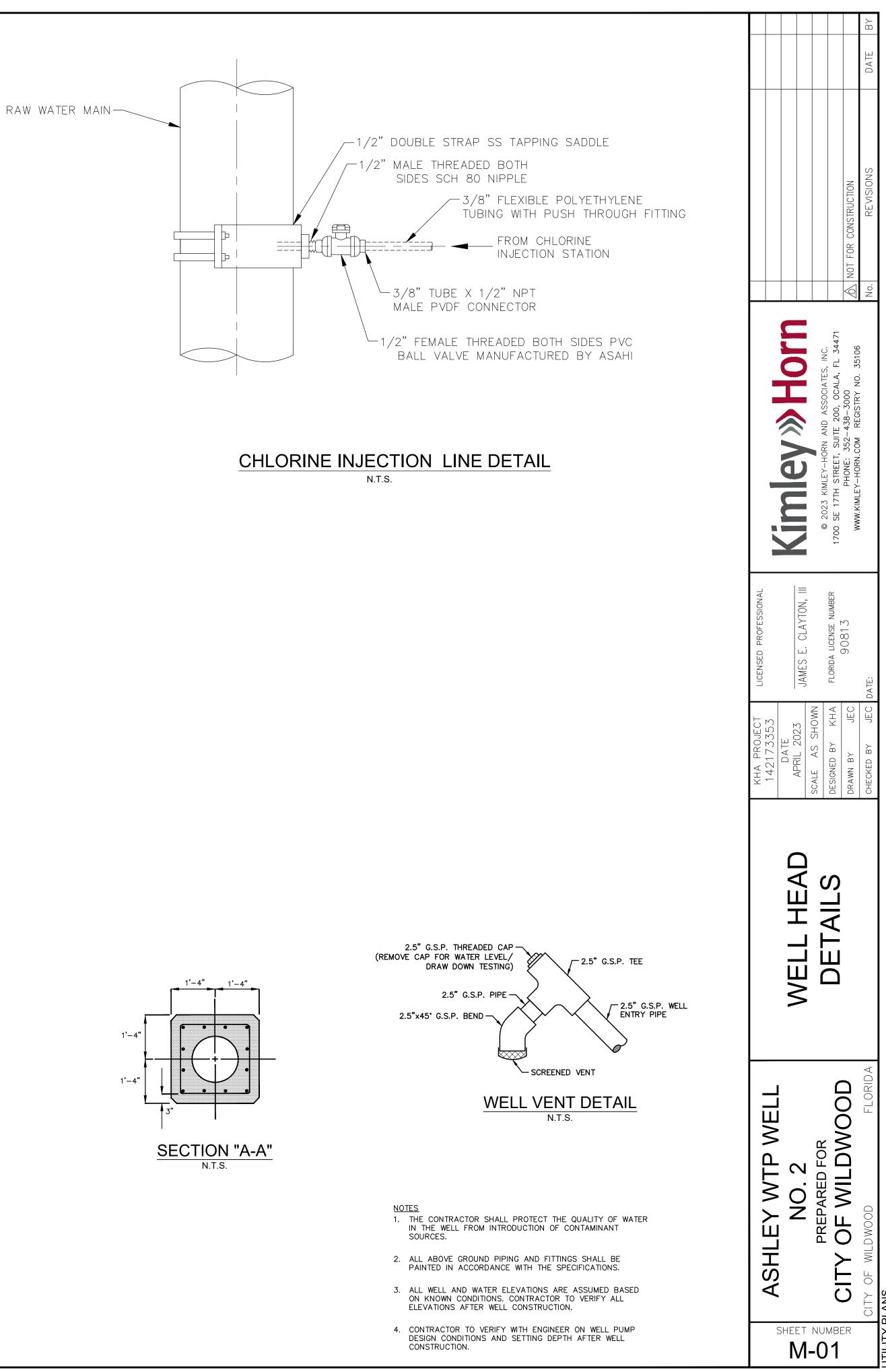


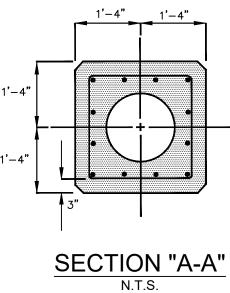




GRAPHIC SCALE IN FEET	DATE BY
AREA TO BE COVERED WITH WEED BLOCK FABRIC AND 3" OF 3/4" TO 1.25" COARSE AGGREGATE	 Mo. Mo. REVISIONS
	© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 0 2023 KIMLEY-HORN AND ASSOCIATES, INC. 1700 SE 17TH STREET, SUITE 200, OCALA, FL 34471 PHONE: 352-438-3000 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
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			B
	<u>TAPPING SLEEVES AND VALVES</u> FOR TAPS 4" AND LARGER ON MAIN LINES 6" AND LARGER. THE TAPPING SLEEVE SHALL BE A FORD FAST	MECHANICAL RESTRAINTS SHALL BE PROVIDED AT ALL POINTS WHERE THE LINE BENDS GREATER THAN 10° AND AT ALL WYES, TEES, CAPS, VALVES AND REDUCERS.	DATE
DOLS, EQUIPMENT, R THE COMPLETE COMPLETE AND WORKABLE	FOR TAPS 4 AND LARGER ON MAIN LINES 6 AND LARGER, THE TAPPING SLEEVE SHALL BE A FORD FAST TAPPING SLEEVE, ROMAC, OR APPROVED EQUAL, AND THE TAPPING VALVE SHALL BE A MUELLER T2360, EJ FLOWMASTER, OR APPROVED EQUAL. FOR TAPS SMALLER THAN 4" ON MAIN LINES LARGER THAN 2" AND LESS THAN 6", THE SADDLE SHALL BE A	CONNECTIONS WILL BE MADE TO THE EXISTING AND/OR CONSTRUCTED FACILITIES IN ACCORDANCE WITH STANDARD PLUMBING PRACTICE. ANY CONNECTIONS MADE BETWEEN ANY WATER PIPE AND ANY OTHER TUBE PIPE SHALL BE MADE USING CONNECTORS AND ADAPTERS DESIGNED FOR THE PURPOSE OF CONNECTING THE TWO TYPES OF PIPE.	
ONS. D NUMBER SHOWN ON THE	TOR TAPS SMALLER THAN 4 ON MAIN LINES LARGER THAN 2 AND LESS THAN 6, THE SADDLE SHALL BE A DOUBLE STRAP, IRON BODY SADDLE WITH STEEL BANDS, FORD F202 OR APPROVED EQUAL. THE TAPPING VALVE SHALL BE A BRASS CORPORATION STOP OR A RESILIENT SEATED GATE VALVE. FOR A SERVICE LINE, THE TAPPING VALVE SHALL BE A BRASS CORPORATION STOP, FORD FB1100-NL OR APPROVED EQUAL. WHEN TAPPING A MAIN LINE 3" OR LESS, THE SADDLE SHALL BE FORD S71 OR APPROVED EQUAL. THE TAPPING VALVE SHALL BE A BRASS CORPORATION STOP, FORD FB1100-NL OR APPROVED EQUAL.	SINGLE AND MULTIPLE SERVICES SHALL BE AS SPECIFIED AND SHALL BE MADE BY INSTALLING A DOUBLE STRAP SADDLE OF THE APPROPRIATE SIZE FOR THE MATERIAL USED AND A CTS THREAD ADAPTER DESIGNED FOR USE WITH THE POLYETHYLENE PIPE. THE POLYETHYLENE PIPE SHALL THEN BE INSTALLED TO THE PROPER ALIGNMENT AND DEPTH AND CONNECTED TO THE METER BOX ASSEMBLY WITH A COMPRESSION TYPE ADAPTER DESIGNED FOR USE WITH PE TUBING.	
WITH A CELL IITATION FOUNDATION ITH RING-TITE LVENT WELDED JOINTS REATER SHALL BE SHALL 00 PSI PRESSURE RATING.	VALVE BOXES VALVE BOXES FOR VALVES SHALL BE TYLER-UNION FOUNDRY DOMESTIC #461-S, FINE GRAIN CAST IRON ROADWAY BOXES WITH A 5-1/4" SHAFT, ADJUSTABLE HEIGHT BY SCREWING FOR THE TRENCH DEPTH SPECIFIED ON THE DRAWINGS. BOXES ARE TO BE COMPLETE WITH TOP AND BASE SECTION AND DROP TOP COVER WITH THE WORD 'WATER" PERMANENTLY CAST IN IT.	VALVE BOXES SHALL BE SET TO CONFORM ACCURATELY TO THE FINISHED PAVEMENT SURFACE. ALL ADJUSTMENTS REQUIRED FOR GRADE SHALL BE DONE AFTER ALL BASE CONSTRUCTION HAS BEEN COMPLETED. IMMEDIATELY BEFORE THE PLACEMENT OF THE FINAL ASPHALT SURFACE COURSE, THE VALVE SHALL BE UNCOVERED AND THE VALVE BOX SO PLACED AS TO ACCURATELY MEET THE FINISHED PAVEMENT GRADE. THE AREA EXCAVATED IN THE LIME ROCK BASE COURSE TO ALLOW FOR ADJUSTMENT OF THE VALVE BOX TO GRADE SHALL BE BACKFILLED WITH LIME ROCK AND COMPACTED TO THE SAME DENSITY AS THE LIMEROCK BASE COURSE.	TRUCTION
EXTERNAL SKIN. VICES OF 2" AND LESS EE OF VISIBLE CRACKS, PACITY, DENSITY AND M TO ALL APPLICABLE ERWISE SPECIFIED:	BLOW-OFF VALVE ASSEMBLY THE CONTRACTOR SHALL FURNISH AND INSTALL BLOW-OFF ASSEMBLIES IN THE LOCATIONS SHOWN ON THE DRAWINGS. EACH ASSEMBLY SHALL CONSIST OF A BLOW-OFF BRANCH, 2" EJ FLOWMASTER THREADED MODEL GATE VALVE W/ 2" OPERATING NUT, CAP, FITTINGS, INTER-CONNECTING PIPING AND THRUST BLOCKING. SIZES SHALL BE AS SHOWN IN THE DETAIL DRAWING. PIPE AND FITTINGS SHALL BE AS SPECIFIED IN THE PRECEDING PARAGRAPHS.	AT THE END OF EACH WORK DAY AND/OR WHEN THE PIPE IS LEFT OPEN FOR LONG PERIODS, ALL OPEN ENDS OF THE PIPE WILL BE SUFFICIENTLY COVERED TO PREVENT ENTRANCE OF TRASH OR WILDLIFE. ANY PIPE INSTALLED AND SUBSEQUENTLY REMOVED SHALL NOT BE REINSTALLED AND SHALL IMMEDIATELY BE REMOVED FROM THE JOB SITE.	NOT FOR CONST
TUBING AND FITTINGS, N MATERIALS (CTS – 0.D.)	METER BOX ASSEMBLY THE CONTRACTOR SHALL FURNISH AND INSTALL METER BOX ASSEMBLIES IN THE LOCATIONS SHOWN ON THE DRAWINGS. EACH ASSEMBLY SHALL INCLUDE AN ANGLE METER VALVE, A U-BRANCH OR Y-BRANCH AS APPLICABLE, AND A WATER METER BOX.	CLEARANCE REQUIREMENTS VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWER LINES, WASTEWATER OR STORMWATER FORCE MAIN, OR RECLAIMED WATER PIPELINES: (1) NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-TYPE OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER LINES SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE	
1–86 (AWWA C151–86) – MOLDS FOR WATER OR H, 42,000 PSI YIELD LL UTILIZE PUSH–ON SSURE RATING, METAL	ACCEPTABLE MANUFACTURERS SHALL BE: DUAL BOX – DFW ROTEC #39F BLACK COMPLETE W/ CI READER, DFW PLASTICS 1200 OR 1500, OR APPROVED EQUAL. SINGLE BOX – DFW ROTEC #36F BLACK COMPLETE W/ CI READER, DFW PLASTICS 1200 OR 1500, OR APPROVED EQUAL. ALL WATER METERS WILL BE INSTALLED BY THE CITY. A INTEGRAL DUAL CHECK VALVE OR DOUBLE CHECK	MAIN IS AT LEAST 18 ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. (2) NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 18" ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.	CIATES, INC. SALA, FL 3447 NO. 35106
SUBJECT AND STATES AND STATES AND SUBJECT	VALVE SHALL BE INSTALLED WHERE APPROPRIATE. BACKFLOW DEVICES SHALL BE INSTALLED BY THE DEVELOPER/OWNER. BACKFLOW DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AND THE RESULTS SUBMITTED TO THE WATER DEPARTMENT FOR VERIFICATION. PIPE LAYING PRIOR TO CONNECTION OF NEW MAINS TO EXISTING STUBS, THE UTILITY SHALL INSTALL A LOCKING VALVE BOX	(3) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (1) AND (2) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 10' FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWER LINES, STORM SEWER LINES, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC. AND AT LEAST 10' FROM ALL	A AND ASSOCI SUITE 200, OC. 352-438-3000 COM REGISTRY
-LATEST OR ANSI A21.53 QUAL. JOINTS.	COVER ON THE EXISTING TIE-IN VALVE TO PREVENT UNSUPERVISED OPENING OF THE VALVE. THE APPROXIMATE LOCATION OF THE WATER LINES WILL BE STAKED IN THE FIELD BY THE SURVEYOR, BUT INSTALLATION OF THE WATER LINE WILL BE ROUTED AROUND ANY AND ALL TREES, ROOTS AND OTHER OBSTRUCTIONS ON LINE. UNLESS SPECIFICALLY DESIGNATED ON THE DRAWINGS, OR SO ORDERED BY THE ENGINEER, THE PIPE SHALL BE BURIED TO A DEPTH TO OBTAIN AT LEAST 36" OF COVER.	JOINTS IN GRAVITY-TYPE OR PRESSURE-TYPE SANITARY SEWER LINÉS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC. (4) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES: A. NO WATER MAIN SHALL PASS THROUGH, OR COME IN CONTACT WITH, ANY PART OF A SANITARY MANHOLE. B. WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO ANY CONTACT	3 KIMLEY-HOR TH STREET, S PHONE: 3 MLEY-HORN.CO
E I, CLASS A. VALVES S AND 2" OPERATING DUCTILE IRON BODIES DED OR MECHANICAL T-WEDGE GATE VALVES	THE CONTRACTOR SHALL INSTALL EARLY WARNING TAPE 12" ABOVE TOP OF PIPE. IN ADDITION, THE CONTRACTOR SHALL INSTALL A #12 AWG COPPER WIRE CONTINUOUS FOR TRACING. BEFORE THE PIPE IS LAID IN THE TRENCH THE EARTH FORMING THE BED SHALL BE CAREFULLY FREED OF ALL STONES, ROOTS, ETC. THE BOTTOM OF THE TRENCH WILL BE EXCAVATED BY HAND AND A FIRM FULL-LENGTH SUPPORT FORMED FOR ALL PIPE, VALVES AND FITTINGS. THE PIPE SHALL BE LAID BY SNAKING IN THE	 a. WATER MAINS STALE NOT BE CONSTRUCTED OR ALTERED TO FASS THROUGH, ON COME INTO ANT CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE. (5) WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN 3' HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE: A. USE OF PIPE OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT 	© 202. 1700 SE 1
- WEDGE GATE VALVES	PIPE JOINTS - ALL SURFACES OF THE PORTIONS OF THE PIPE AND JOINTING MATERIAL TO BE JOINED SHALL BE CLEAN AND DRY. FOR THE INSTALLATION OF PIPE WITH THE "COMPRESSION RING" FITTING, A BELL RING LUBRICANT SHALL BE APPLIED TO THE BEVELED PORTION OF THE SPIGOT END. SUCH LUBRICANT SHALL BE OF THE TYPE AND QUALITY AS RECOMMENDED BY THE PIPE MANUFACTURER. CARE SHALL BE EXERCISED TO INSURE THAT THE COMPRESSION RING IS PROPERLY SEATED AND THE PIPE IS COMPLETELY INSERTED SO THAT THE REFERENCE MARKS ON THE SPIGOT END CAN JUST BE SEEN.	 B. USE OF PIPE OR CASING PIPE, THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST 4" THICK FOR THE WATER MAIN; AND B. USE OF PIPE OR CASING PIPE HAVING HIGH IMPACT STRENGTH (I.E. HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25"-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST 4" THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER. 	FESSIONAL AYTON, III SE NUMBER
DETAIL DETAIL NUMBER IBUTION W-01 1 OF 5	CITY OF WILDWOOD 100 NORTH MAIN STREET WILDWOOD, FLORIDA 34785 (352) 330–1330 SCALE NONE LATEST REVISION 06–01–16 SCALE NONE POTABLE WATER DISTRIBUTION SPECIFICATIONS 2 OF 5	CITY OF WILDWOOD 100 NORTH MAIN STREET WILDWOOD, FLORIDA 34785 (352) 330–1330 CITY OF WILDWOOD WATER DETAIL POTABLE WATER DISTRIBUTION SPECIFICATIONS CITY OF WILDWOOD WATER DETAIL POTABLE WATER DISTRIBUTION SPECIFICATIONS CITY OF WILDWOOD WATER DETAIL DETAIL NUMBER W-01 3 OF 5	ICENSED PROFES: AMES E. CLAYT FLORIDA LICENSE N 90813 E:
TORM SEWER LINES, ITE SEWAGE TREATMENT	<u>BACKFILLING</u> TRENCHES SHALL BE BACKFILLED WITH THE EXCAVATED MATERIALS FROM WHICH LARGE CLODS OR STONES		
HORIZONTAL DISTANCE IDE OF ANY EXISTING OR ECLAIMED WATER	HAVE BEEN REMOVED AND SHALL BE CAREFULLY DEPOSITED IN LAYERS NOT TO EXCEED 12" AND THOROUGHLY AND CAREFULLY RAMMED UNTIL ENOUGH FILL HAS BEEN PLACED TO PROVIDE A COVER OF NOT LESS THAN 2' ABOVE THE PIPE. THE REMAINDER OF THE BACKFILL MATERIAL MAY THEN BE PLACED AND SHOULD BE MOISTENED AND TAMPED TO INSURE PROPER COMPACTION. BACKFILL SHALL NOT BE PLACED OVER ANY PLASTIC PIPE WHILE IT IS IN A HEATED CONDITION. BEFORE	W/ SIZE OF PIPE W/ SIZE OF PIPE UNIMPROVED AREAS	A PROJECT 2173353 DATE DATE AS SHOV AS SHOV BY JJ ED BY JJ
RIZONTAL DISTANCE PER OF ANY EXISTING OR HORIZONTAL DISTANCE	BACKFILLING THE PIPE, THE TEMPERATURE SHALL BE BROUGHT TO THE APPROXIMATE TEMPERATURE OF THE GROUND EITHER BY RUNNING WATER THROUGH IT OR BY BACKFILLING IN THE EARLY MORNING WHEN THE PIPE AND GROUND ARE AT THE SAME TEMPERATURE. WHENEVER THE TRENCHES HAVE NOT BEEN PROPERLY FILLED, OR IF SETTLEMENT OCCURS, THEY SHALL BE	(3" MIN.)	KHA AP Scale Design Drawn Checke
IDE OF ANY EXISTING OR ORCE MAIN, OR PIPELINE F.A.C. THE MINIMUM ARY SEWER LINES SHALL THE TOP OF THE SEWER	REFILLED, COMPACTED, SMOOTHED OFF, AND FINALLY MADE TO CONFORM TO THE SURFACE OF THE GROUND. BACKFILL IN OPEN TRENCHES ACROSS ROADWAYS OR OTHER AREAS WHICH ARE TO BE REPAVED SHALL BE MADE AS SPECIFIED ABOVE EXCEPT THAT THE ENTIRE FILL ABOVE PIPE SHALL BE DEPOSITED IN LAYERS NOT TO EXCEED 12" IN THICKNESS, MOISTENED AND COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 SO THAT WHEN BACKFILLING IS COMPLETED, THE ROADWAY PAVING MAY BE PLACED IMMEDIATELY.	BACKFILL OTE 2)	L S
HORIZONTAL DISTANCE S OF ANY EXISTING OR 10N 381.0065(2), F.S.	DISINFECTING DISINFECTING THE WATER MAIN AND CONDUCTING BACTERIOLOGICAL SURVEYS AND EVALUATIONS MUST BE DONE IN ACCORDANCE WITH AWWA C651.	COMMON FILL	
MINIMUM HORIZONTAL OSSING ANOTHER IRED MINIMUM DISTANCE	AFTER THE INSTALLATION HAS BEEN COMPLETED, THE CONTRACTOR SHALL CONTACT THE UTILITY TO UNLOCK THE VALVE BOX COVER AT THE POINT OF CONNECTION AND THE WATER LINES AND APPURTENANCES SHALL BE THOROUGHLY FLUSHED AND THEN DISINFECTED BY THE APPLICATION OF CHLORINE, EITHER GASEOUS OR IN HYPOCHLORITE FORM, UNTIL A RESIDUAL CHLORINE CONTENT OF AT LEAST 50 PPM IS OBTAINED THROUGHOUT THE SYSTEM. THIS CHLORINATED WATER SHALL REMAIN IN THE LINES FOR A PERIOD OF 24 HOURS, DURING WHICH TIME THE VALVES SHALL BE OPENED SEVERAL TIMES IN ORDER TO WET ALL OF THE PARTS.	12" (TYP.)	
RATED INTO RULE TYPE PIPELINE; ER MAIN OR THE OTHER 2K FOR EITHER THE	UPON COMPLETION OF THE FLUSHING AND DISINFECTION OF THE WATER LINES, THE CONTRACTOR SHALL HAVE WATER SAMPLES TESTED FOR BACTERIOLOGICAL MAIN CLEARANCE IN ACCORDANCE WITH APPLICABLE STATE OF FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (F.D.E.P.) REQUIREMENTS. IN THE EVENT THAT THESE TESTS FAIL DUE TO CONTAMINATION, INADEQUATE STERILIZATION, OR FOR ANY OTHER CAUSE DIRECTLY RELATED TO THE WORK OF THE CONTRACTOR, THE WATER LINES SHALL BE DISINFECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE COST OF THE NECESSARY RETESTING FOR BACTERIOLOGICAL MAIN	UNDISTURBED EARTH (SEE NOTE 3)	
LL BETWEEN JOINTS WILL RESSURE TESTED. THE E POINT OF CONNECTION LINE FILLING AND THE BIECT THE LINES TO A	CLEARANCE SHALL BE CHARGED DIRECTLY TO THE CONTRACTOR OR DEDUCTED FROM ANY PAYMENT DUE. EXCEPT AS REQUIRED FOR FLUSHING, DISINFECTION, AND BACTERIOLOGICAL MAIN CLEARANCE SAMPLING, THE TIE-IN VALVE SHALL REMAIN CLOSED AND LOCKED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR SERVICE BY THE F.D.E.P. PLUMBING CODE	W NOTES:	
BJECT THE LINES TO A SURE AND MAINTAINED REPAIRED AND ANOTHER	ALL PIPING AND RELATED FITTING SHALL BE INSTALLED ACCORDING TO THE PLUMBING CODE OF THE STATE OF FLORIDA, LOCAL AUTHORITIES AND MANUFACTURER'S RECOMMENDATIONS. WHEREVER THESE SPECIFICATIONS AND/OR DRAWINGS EXCEED THE REQUIREMENTS OF SAID CODES, THESE DOCUMENTS TAKE PRECEDENCE. THE PIPING MUST BE INSTALLED IN A STRONG, NEAT AND WORKMANLIKE MANNER, SUBJECT TO THE RESTRICTIONS INDICATED.	 NOTES: 1. PIPE BEDDING: SELECT COMMON FILL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS PER AASHTO T-180. 2. TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER ROADWAYS) OF THE MAXIMUM 	
E WILL BE APPROVED FOR DTHER BRANCH LINE NNECTION OF THE ENTIRE RESSURE OF 150 PSI H NO LOSS IN PRESSURE WA C605 FOR PVC	- Ashtey Well WTP\CAD	 IRENCH BACKFIEL: COMMON FILL COMPACTED TO 95% (98% UNDER ROADWATS) OF THE MAXIMUM DENSITY AS PER AASHTO T-180. PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. (*): 15" MAX. FOR PIPE DIAMETER LESS THAN 24", AND 24" MAX. FOR PIPE DIAMETER 24" AND LARGER. 	D WEL
MAINTAINS THE TEST IM OF 30 DAYS PRIOR TO ER.	rood /Projects / 14217335.	 WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW. FINAL RESTORATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. 	Y WTF NO. 2 ■ WILE
DETAIL DETAIL NUMBER	CITY OF WILDWOOD SCALE CITY OF WILDWOOD WATER DETAIL DETAIL NUMBER	CITY OF WILDWOOD SCALE CITY OF WILDWOOD WATER DETAIL DETAIL NUMBER	SHLE SHLE
IBUTION W-01 3 4 OF 5	Image: NoneNone100 NORTH MAIN STREET WILDWOOD, FLORIDA 34785 (352) 330-1330NONEPOTABLE WATER DISTRIBUTION SPECIFICATIONSW-015 OF 5	W-04 100 NORTH MAIN STREET WILDWOOD, FLORIDA 34785 (352) 330–1330 NONE LATEST REVISION 06–07–16 BEDDING AND TRENCHING DETAIL 1 OF 1	
			SHEET NUMBER

M-02

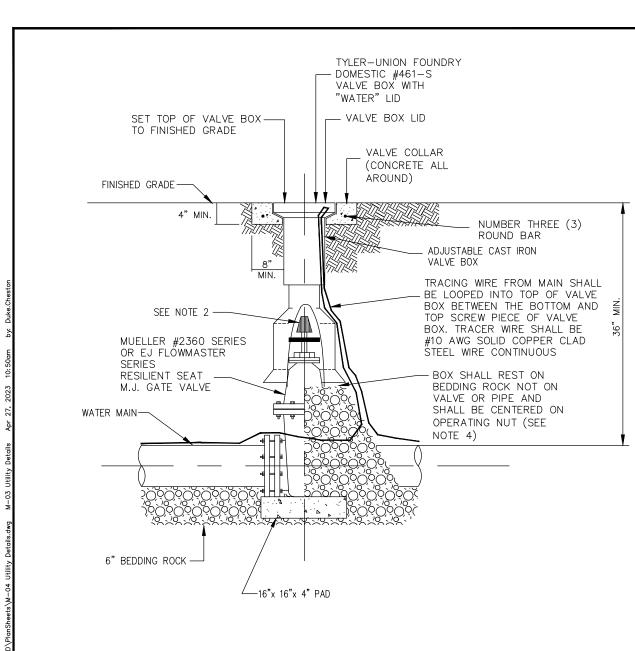
LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTEF
STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2)	WATER MAIN 3 FT. MINIMUM	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR STORM SEWER, THEN 6 INCHES IS THE MINIMUM	ALTERNATE 3 FT. MINI
VACUUM SANITARY SEWER	WATER MAIN 10 FT. PREFERRED 3 FT. MINIMUM	WATER MAIN 12 INCHES PREFERRED 6 INCHES MINIMUM	ALTERNATE 3 FT. MIN
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (4)	WATER MAIN 10 FT. PREFERRED 6 FT. MINIMUM (3)	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED	ALTERNATE 6 FT. MIN
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 FT. MINIMUM		

<u>NOTES</u>

- 1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
- 2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- 3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
- 4. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

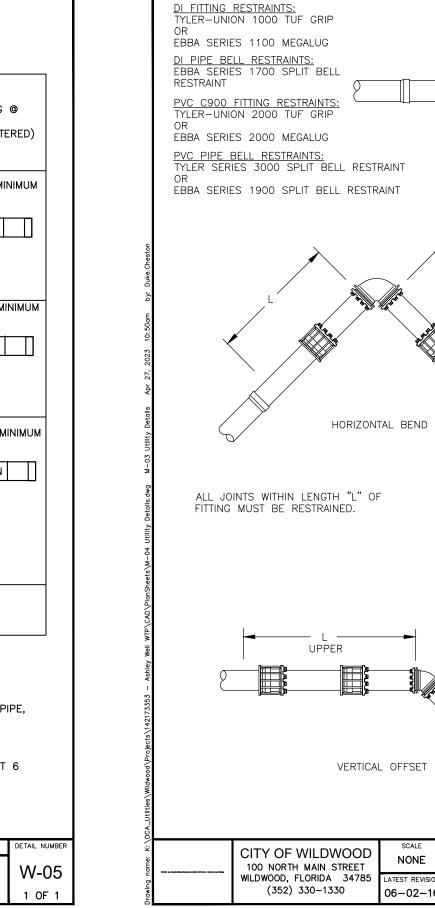
°		SCALE	CITY OF WILDWOOD WATER DETAIL	DE
х Э	CITY OF WILDWOOD	NONE	CITE OF WILDWOOD WATER DETAIL	1,
	WILDWOOD, FLORIDA 34785 (352) 330-1330	LATEST REVISION		`

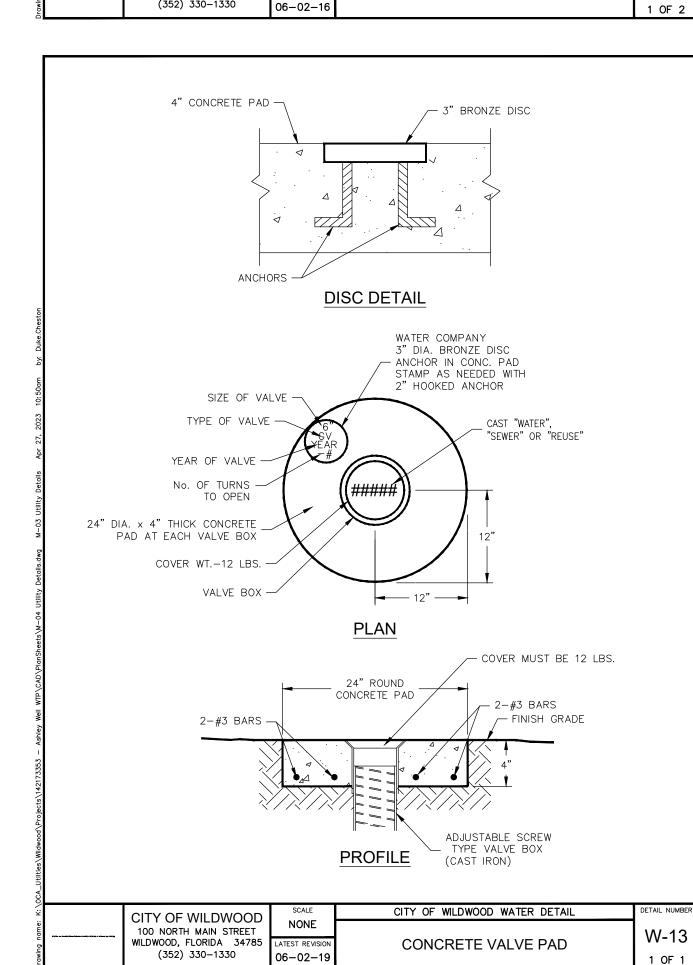


NOTES:

- 1. PVC EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
- 2. THE ACTUATING NUT FOR DEEPER VALVES SHALL BE EXTENDED TO 4 FOOT DEPTH BELOW FINISHED GRADE.
- 3. GATE VALVES SHALL BE USED WITH ALL WATER MAINS UP TO TWELVE (12) INCHES, BUTTERFLY VALVES SHALL BE USED FOR ALL LARGER SIZES.
- 4. WHEN VALVE BOX IS TO BE INSTALLED IN ROADWAY OR OTHER TRAFFIC AREAS SET VALVE BOX ON FIVE (5) SOLID BRICKS.

0CA_L				
Ξ	CITY OF WILDWOOD	SCALE	CITY OF WILDWOOD WATER DETAIL	DETAIL NUMBER
ame:	100 NORTH MAIN STREET	NONE		W-08
<u> ۲</u>		LATEST REVISION	GATE VALVE AND BOX DETAIL	VV-00
awing	(352) 330–1330	09-13-19		1 OF 1





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TEE

- RESTRAIN ALL JOINTS BETWEEN FITTINGS

L LOWER

CITY OF WILDWOOD WATER DETAIL

MECHANICAL JOINT RESTRAINTS

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DETAIL NUMBE

W-06

DEAD END

HORIZONTAL BEND

UPPER

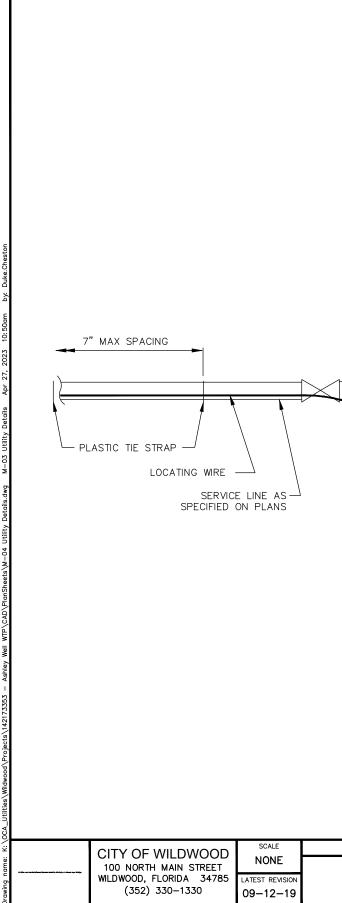
VERTICAL OFFSET

SCALE

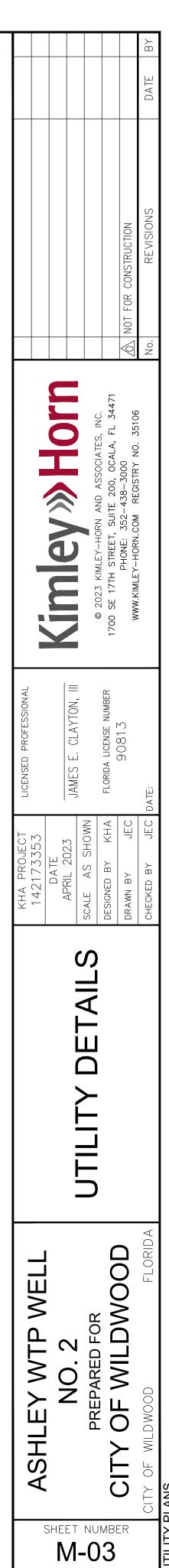
NONE

06-02-16

	BA IRON RESTRAND DIPRA THRU		GTH CAL		TILE IRON	N PIPE,	R PVC RELEAS		ELEASE]		
FITTING TY	ΈE	4"	6"	8"	F 10"	PIPE SIZE	E 14"	16"	20"	24"		
90° HORIZ. BEND 45° HORIZ. BEND 22.5° HORIZ. BEND		17 7 3	24 10 5	31 13 6	37 15 7	43 18 9	49 20 10	55 23 11	66 28	76 32 15		
11.25° HORIZ. BEND	UPPER	2 16	2 22	3 29	4 34	<u> </u>	<u> </u>	6 52	13 7 64	<u>8</u> 74		
45° VERT. OFFSET	BEND LOWER BEND	7	10	13	15	18	20	23	28	32		
22.5° VERT.	UPPER BEND	7	12	15	17	20	22	25	31	36		
OFFSET	LOWER BEND UPPER	3	5	6	7	9	10	11	13	15		
11.25° VERT. OFFSET	BEND LOWER	4	5	7	8	11	12 5	14 7	16 7	18 8		
PLUG (DEAD END) VALVE	BEND		53 53	69 69	83 83	98 98	112 112	129 129	1 <u>5</u> 3 153	<u>179</u> 179		
	4"X * 6"X *	19 10	- 35	-	-	_	_	-	-	_		
TEE (BRANCH REST.)	8"X * 10"X * 12"X *	1 1 1	28 28 15	51 46 40	- 64 60	_ _ 79				_ _ _		
	14"X * 16"X * 20"X *	1 1 1	8 1 1	35 29 18	56 51 42	75 71 64	92 90 85	- 106 101	- - 133	_ _ _		
	24"X * 6"X *	1 27	1 –	5	42 32 -	55 -		95 -	128	158 —		
REDUCER (LARGER PIPE RESTRAINT)	8"X * 10"X * 12"X *	50 68 85	29 51 71		- - 48	_ _ _	_ _ _		_ _ _	-		
	14"X * 16"X *	101 117	89 106	73 92	69 89	29 54	_ 29	_	-	_		
TES:	20"X * 24"X *	146 173	138 166	126 157	113 146	96 132	77 98	54 77	_ 54	_		
THE DATA IN THE AE				THE FOL					NS:			
SOIL TYPE – SP SAFETY FACTOR – 1	.5 DEPTH	CH TYPE 1 OF BUF	RY – 3'		VERTIC							
THE RESTRAINED PIP												
RESTRAINED PIPE LEI	NGTHS FOR VAL	VES APP	PLY TO F	PIPE ON	BOTH S	IDES OF	VALVE	S.				
	LDWOOD	ED FOR SCALE NONE ST REVISION	IN THE	CITY	TABLE. OF WILD	WOOD W			TS	DETAIL NUMB		
CITY OF WIL 100 NORTH MA	AND CALL DWOOD NN STREET NDA 34785 LATE	ED FOR scale NONE	IN THE	CITY	OF WILD	WOOD W			TS	DETAIL NUMB	;	
CITY OF WIL 100 NORTH MA WILDWOOD, FLOR (352) 330 7" MAX SPACING PLASTIC TIE STRAF	AND CALL	ED FOR SCALE NONE ST REVISION -24-18	IN THE	CITY	OF WILD		-#10 AI CLAD : #HF-C	WG SOLII STEEL W CS-PE) COPPEI IRE, PRO	DETAIL NUMB	;	



W-08 1 OF 1



OCA_Utilities/Wildwood/Projects/142173353 - Ashley Well WTP\CAD\PlanSheets\M-04 Utility Details.dwg, Layout:M-04 Utility Details Apr 27, 2023 Duke.Cheston



