VILLAGE OF TEQUESTA PALM BEACH COUNTY, FLORIDA



TEQUESTA PARK LIFT STATION IMPROVEMENTS

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

MAY, 2015

PROJECT TEAM SURVEYOR

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CIVIL ENGINEER

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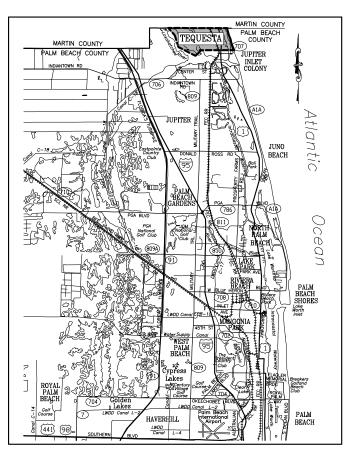
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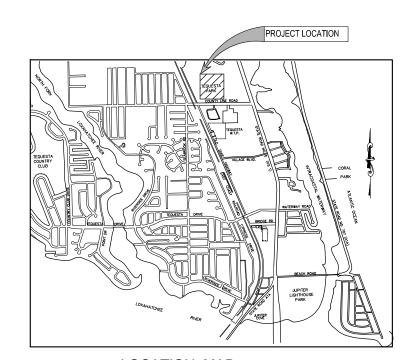
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LOCATION MAP

3 ADCADIC

DAVID A. BANNETT FLORIDA P.E. NO. 51865

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VILLAGE OF TEQUESTA
TEQUESTA PARK
LIFT STATION IMPROVEMENTS

PROJECT MANAGER
T. JENSEN

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- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND COPIES OF ALL REQUIRED
- THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR /ERIFYING THE LOCATION AND SIZE OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL LITHITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL LITHITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS FXISTING LITHLITIES WITH THE PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE VILLAGE PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS COMPLETE JNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE STRUCTURES, LANDSCAPING ETC.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, 48 HOURS BEFORE DIGGING
 - A.) FLORIDA POWER & LIGHT
 - B.) AT&T
 - COMCAST CABLE TV
 - SUNSHINE STATE ONE CALL OF FLORIDA, INC.
 - VILLAGE OF TEQUESTA (VOT)
 - LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT (LRD)
- LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT (LRD) AND VILLAGE OF TEQUESTA WRITTEN SPECIFICATIONS AND STANDARD DETAILS (LATEST EDITION) ARE TO BE CONSIDERED PART OF THIS PROJECT AND CONSTRUCTION SHALL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS
- ALL PRESSURE MAINS DENOTED AS PVC, PIPE SIZES 4" (INCH) THRU 12" (INCH) DIAMETER SHALL CONFORM TO AWWA C900 WITH SDR OF 18. ALL GRAVITY MAIN PIPE SIZES 4" (INCH) THRU 12" (INCH) DIAMETER SHALL BE SDR 26, PVC.
- ALL MAINS DENOTED AS DIP SHALL BE PRESSURE CLASS 350 WITH FITTINGS HAVING A MINIMUM WORKING PRESSURE OF 250 PSI. THE PIPE AND FITTING EXTERIOR SHALL BE COATED WITH BITUMINOUS COATING (APPROXIMATELY ONE MIL. THICK) UNLESS OTHERWISE NOTED. THE INTERIOR OF ALL DIP PIPE AND FITTINGS SHALL HAVE A INTERNAL CEMENT MORTAR LINING WITH A MINIMUM THICKNESS IN ACCORDANCE WITH AWWA C104.
- ALL MAINS DENOTED AS HDPE, SHALL CONFORM TO AWWA C-906 WITH SDR OF 11.
- NO CONCRETE THRUST BLOCKS WILL BE ALLOWED. ALL JOINTS SHALL BE MECHANICALLY
- ALL REPLACED SIDEWALKS SHALL HAVE CONTROL JOINTS EVERY 8 FEET AND TWO AT THE CORNERS.
- WHERE PROPOSED WORK CONNECTS TO EXISTING PIPING, THE CONTRACTOR SHALL EXPOSE EXISTING PIPING AND CONFIRM LOCATION, ELEVATION, DIAMETER AND MATERIAL PRIOR TO ORDERING MATERIALS TO FACILITATE CONNECTION
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THERE ARE CONSIDERABLE PIPELINE, VALVES, ELECTRIC CONDUIT AND OTHER STRUCTURES IN THE IMMEDIATE CONSTRUCTION AREAS OF THE PROPOSED LINES AND STRUCTURES. CONTRACTOR SHALL DIVERT ALL EXISTING PIPING AROUND PROPOSED LINE AND STRUCTURES AS REQUIRED AND SUPPLY/INSTALL NECESSARY FITTINGS/PIPING HAND DIGGING MAY BE REQUIRED. NOT ALL OF EXISTING PIPING/ELECTRICAL IS SHOWN. THE CONTRACTOR SHALL EXPOSE EXISTING PIPING AND CONFIRM LOCATION, ELEVATION AND MATERIAL PRIOR TO ORDERING CONNECTING MATERIAL.
- THE TYPE, SIZE AND MATERIAL OF THE PIPING SYSTEM IS INDICATED ON THE DRAWINGS. WHERE 15. PIPING SYSTEMS OF DIFFERING SIZE, MATERIAL OR RATINGS ARE CONNECTED, THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY FITTINGS, TRANSITIONS AND OR ADAPTERS NECESSARY. THE MATERIAL AND PRESSURE RATING SHALL BE CONSISTENT WITH THE PIPING SYSTEMS TO WHICH THESE ARE CONNECTED AND SUBJECT TO THE ENGINEERS APPROVAL.
- THE LOCATION OF AIR RELEASE VALVES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. FINAL LOCATION SHALL BE ESTABLISHED BY ENGINEER AFTER SUBMITTAL OF AS-BUILT RECORD
- SERVICE INTERRUPTIONS REQUIRE A MINIMUM OF TWO (2) WEEKS PRIOR NOTIFICATION.
- MINIMUM COVER SHALL BE 36 INCHES FROM FINISH GRADE, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER, MINIMUM COVER UNDER DITCH/CANAL BOTTOMS SHALL BE 24 INCHES. UNLESS OTHERWISE SPECIFIED OR SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM COVER SHALL BE 48 INCHES WITH APPROVAL FROM VILLAGE ENGINEER. UNLESS OTHERWISE SPECIFICALLY

- 19. THE CONTRACTOR IS ADVISED THAT THE GROUNDWATER TABLE IN THE AREA IS VARIABLE. DEWATERING FOR PIPE INSTALLATION WILL BE REQUIRED. WET TRENCH INSTALLATION SHALL NOT BE ALLOWED, ALL PIPING MUST BE INSTALLED IN A DRY TRENCH, CONTRACTOR TO ENSURE HIS COMPLETE UNDERSTANDING OF DEWATERING REQUIREMENTS FOR THIS PROJECT.
- ARY LOCATIONS ARE AT PROPOSED HIGH POINTS AND ARE SUBJECT TO CHANGE DUE TO ACTUAL
- USE OF SLEEVES, REPAIR SLEEVES AND / OR REPAIR COUPLINGS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM THE UTILITY.
- ALL MATERIALS FOR CONNECTION TO EXISTING MAINS MUST BE PRESENT AT SCHEDULED CONNECTION TIME. IF NOT CONNECTION WILL BE CANCELED.
- PRIOR TO ORDERING MATERIALS FOR MAIN CONNECTIONS THE CONTRACTOR SHALL EXPOSE THE CONNECTION POINT VERIFYING SIZE AND TYPE OF MATERIAL.
- CONTRACTOR SHALL CONFIRM HORIZONTAL AND VERTICAL CONTROL OF ALL CONFLICTS A MINIMUM OF 100 FEET IN ADVANCE OF PIPE LAYING CREW
- TAPPING SLEEVES SHALL BE A MINIMUM OF 3 FEET FROM A PIPE JOINT AND SERVICE TAPS SHALL BE A MINIMUM OF 18 INCHES APART AND 18 INCHES FROM A BELL OR
- VALVES SHALL BE PROVIDED WITH A FULLY ADJUSTABLE VALVE BOX AND STEM WHERE THE CENTERLINE OF PIPE TO GRADE IS GREATER THAN FOUR (4) FEET.

SEPARATION REQUIREMENTS

62-555.314 F.A.C. AUGUST 28, 2003

- 1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT
- A. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER
- C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SOURTHARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER
- VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER
- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESURE- TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE, HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE
- C. AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPHS (A) AND (B) 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 THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REQULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND A LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C
- *REQUIRED BY: HRS. STATE OF FLORIDA, PALM BEACH COUNTY PUBLIC HEALTH UNIT

THE FOLLOWING SHALL BE USED AS A GUIDE FOR SUBMITTAL OF RECORD DRAWINGS TO THE LOXAHATCHEE RIVER DISTRICT

- 1. TWO (2) SETS OF PRINTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW 48 HOURS PRIOR TO REQUESTING NSPECTIONS SUCH AS, FINAL INSPECTION, PRESSURE TESTS, SANITARY SEWER LAMPING OR ANY OTHER ELEMENT OF THE SYSTEM WHICH IS DETERMINED BY THE DISTRICT TO REQUIRE CLARIFICATION.
- 2. THE DRAWINGS WILL BE REVIEWED BY THE DISTRICT FOR DEFICIENCIES, DEFICIENCIES WILL BE INDICATED ON ONE (1) SET OF PRINTS WHICH WILL BE RETURNED TO THE E.O.R. OR CONTRACTOR FOR NECESSARY CORRECTIVE ACTION
- 3. UPON CORRECTION, TWO (2) SETS OF PRINTS (SIGNED/SEALED BY A FLORIDA LICENSED SURVEYOR) SHALL BE SUBMITTED.
- 4. NO DISCLAIMERS ON DRAWINGS WILL BE ACCEPTED.
- 5. UPON FINAL SUBMITTAL OF RECORD DRAWINGS, AN AUTOCAD VER, 2009 OR LATER AND ADOBE, PDF, (24"X36" ELECTRONIC DATA FILE SHALL BE FURNISHED ON A CD-R DISK TO THE DISTRICT. ONLY ONE CAD FILE WITH ALL SHEETS OF RECORD DRAWINGS ALLOWED.
- 6. ALL SEWER ITEMS SHALL BE CATEGORIZED AND ASSIGNED TO THE DRAWING LAYERS SUCH AS: AB-MANHOLES, AB-FORCEMAIN, AB-VALVE, AB-GRAVITY MAIN, ETC.
 7. REDRAW ALL SEWER LINES AND INFRASTRUCTURE ON RECORD DRAWINGS AS CONSTRUCTED HORIZONTALLY &
- VERTICALLY. USING ORIGINAL DESIGN LINEWORK & ONLY UPDATING THE CORRESPONDING TEXT CALLOUTS WILL NOT BE ACCEPTED AS RECORD DRAWINGS

REQUIRED INFORMATION ON RECORD DRAWINGS

- **GENERAL** 1 DRAWINGS ON 24" X 36" BOND PAPER THAT WILL REPRODUCE LEGISLY
- 2. LABEL DRAWINGS "RECORD DRAWINGS" WITH DATE. COMPLETE TITLE BLOCK WITH CURRENT FILE NAME.
- 3. DRAWINGS SHALL BE SIGNED / SEALED BY A FORIDA LICENSED PROFESSIONAL LAND SURVEYOR.
- 4 CORRECT STREET/ROAD NAMES AND LOT AND BLOCK NUMBERS.
- 5. SHOW AS-BUILT CONSTRUCTED SEWER FACILITIES HEAVIED UP, BOLD OR BOXED OUT TO STAND OUT FROM REST OF
- 6. ALL ITEMS LISTED BELOW MUST BE CORRECTLY GEOREFERENCED WITH NORTHINGS/EASTINGS CLEARLY SHOW. THE AS BUILTS SHALL BE GEOREFERENCED TO THE STATE PLANE COORDINATES IN NAD 83, FLORIDA EAST ZONE, WHILE THE VERTICAL DATUM SHALL BE NGVD 29.

GRAVITY SEWER

- AS-BUILT DISTANCE OF GRAVITY MAIN FROM CENTER LINE OF ROAD OR EASEMENT RIGHT- OF-WAY LINE, BUILDINGS, OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN IMAGINARY LINE WILL NOT BE ACCEPTABLE AS REFERENCED POINTS.
- TYPE OF MATERIALS INSTALLED MAINS AND SERVICES.
- 3. SHOW EACH SEWER SERVICE LATERAL INCLUDING THE CONNECTION TO THE MAIN AND PROVIDE THE NORTHING &
- EASTING POINTS FOR EACH CLEANOUT & INDICATE CLEANOUT DIAMETER.

 4. AS-BUILT LOCATIONS OF MANHOLES WITH A NORTHING & EASTING PROVIDED
- 5. AS-BUILT ELEVATIONS, RIM ELEVATION, EACH INVERT AND PIPE SLOPE.
- 6. UPDATE LIFT STATION DETAILS/ELEVATIONS INCLUDING START UP DATA.
- 7. LIFT STATION AND UTILITY EASEMENTS, INCLUDING LOCATION OF F.P.&L. SERVICE TO CONTROL PANEL.

PRESSURE PIPE

- 1. AS-BUILT DISTANCE OF MAINS AT 100' INTERVALS FROM CENTER LINE OF ROAD, EASEMENT, RIGHT-OF-WAY LINE. BUILDINGS, SEWER MAINS OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN IMAGINARY LINE WILL NOT BE ACCEPTABLE AS REFERENCED POINTS.
- 2. SHOW ELEVATIONS, NORTHING/EASTING OF EACH VALVE, FITTING, AIR RELEASE VALVE, SERVICE LINE, TAP, ETC., AND RADIAL DIMENSIONS (TIES) FROM A NEARBY PERMANENT OBJECT WHERE POSSIBLE. (SEE NOTE NO. 6 IN GENERAL)
- 3. TYPE OF MATERIALS INSTALLED PIPE AND APPURTENANCES. INDICATE ALL LOCATIONS OF CHANGE OF MATERIAL INCLUDING JOINT TYPE (M.J., SLIP, RESTRAINED).
- VALVE TYPE (BUTTERFLY, GATE, PLUG) INCLUDING THE NORTHING & EASTING POINT
- 5. AS-BUILT LENGTH OF ALL JACK AND BORE CASINGS INDICATING DISTANCE FROM CENTER LINE OF PAVING TO FACH END OF CASING. THE AS-BUILT INVERT ELEVATION OF EACH END OF CASING, (INCLUDING NORTHING/EASTING) AND AS-BUILT DISTANCE FROM EACH END OF CASING TO LIMITS OF MECHANICAL JOINT PIPE IS ALSO REQUIRED.
- 6. AS-RUILT FLEVATIONS AT 100' INTERVALS AS WELL AS ANY MAJOR CHANGES IN DIRECTION AND/OR FLEVATION ELEVATIONS SHOWN AT THESE INTERVALS AND CHANGES MUST SHOW TOP OF PIPE ELEVATION, NORTHING/EASTING HED GRADE ELEVATION AT THAT LOCATION. SHOW LOCATION OF EMS MARKE
- 7. UTILITY EASEMENTS SHALL BE CORRECTLY SHOWN AND DIMENSIONED WITH REFERENCED SEWER FACILITY.
- 1. LOW PRESSURE PUMPING UNITS SHALL BE LOCATED SO THAT SURFACE WATER RUN OFF SHALL NOT INTERFERE WITH ELECTRICAL COMPONENTS.
- 2. MANUFACTURER SHALL SUPPLY AND ATTACH ELECTRICAL CONTROL PANEL SCHEMATIC TO INSIDE FACE OF CONTROL PANEL DOOR (LAMINATED)
- 3. THE DISTRICT WILL BE CERTIFYING ALL LOW PRESSURE LIFT STATIONS WHEN COMPLETE. MANUFACTURER SHALL SCHEDULE A START UP TEST AND SUBMIT ALL AS-BUILT DATA TO THE DISTRICT FOR CERTIFICATION.
- 4. LIFT STATION AND CONTROL PANEL SHALL BE LOCATED SO THAT BOTH ARE ACCESSIBLE FOR MAINTENANCE.
- 5. WHERE FEASIBLE. HOMEOWNER SHALL PROVIDE WATER HOSE BIB. HOSE FOR MAINTENANCE OPERATIONS. 6. AIR RELEASE VALVE AND/OR VACULUM RELIEF VALVES SHALL BE PROVIDED ON ALL LOW PRESSURE FORCE
- MAIN INSTALLATION IMMEDIATELY UPSTREAM OF DISCHARGE POINT TO REGIONAL GRAVITY OR FORCE MAIN
- 7. FORCE MAIN DETECTABLE TAPE & MAGNETIC LOCATING DEVICES WILL BE INSTALLED OVER FORCE MAIN.

ARCADIS

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VILLAGE OF TEQUESTA TEQUESTA PARK LIFT STATION IMPROVEMENTS

T. JENSEN T. JENSEN D. BANNETT D. BANNETT SHEET TITLE R. ADAMS GENERAL NOTES PROJECT NUMBER DRAWING NUMBER WF900278 2 **Of 11**

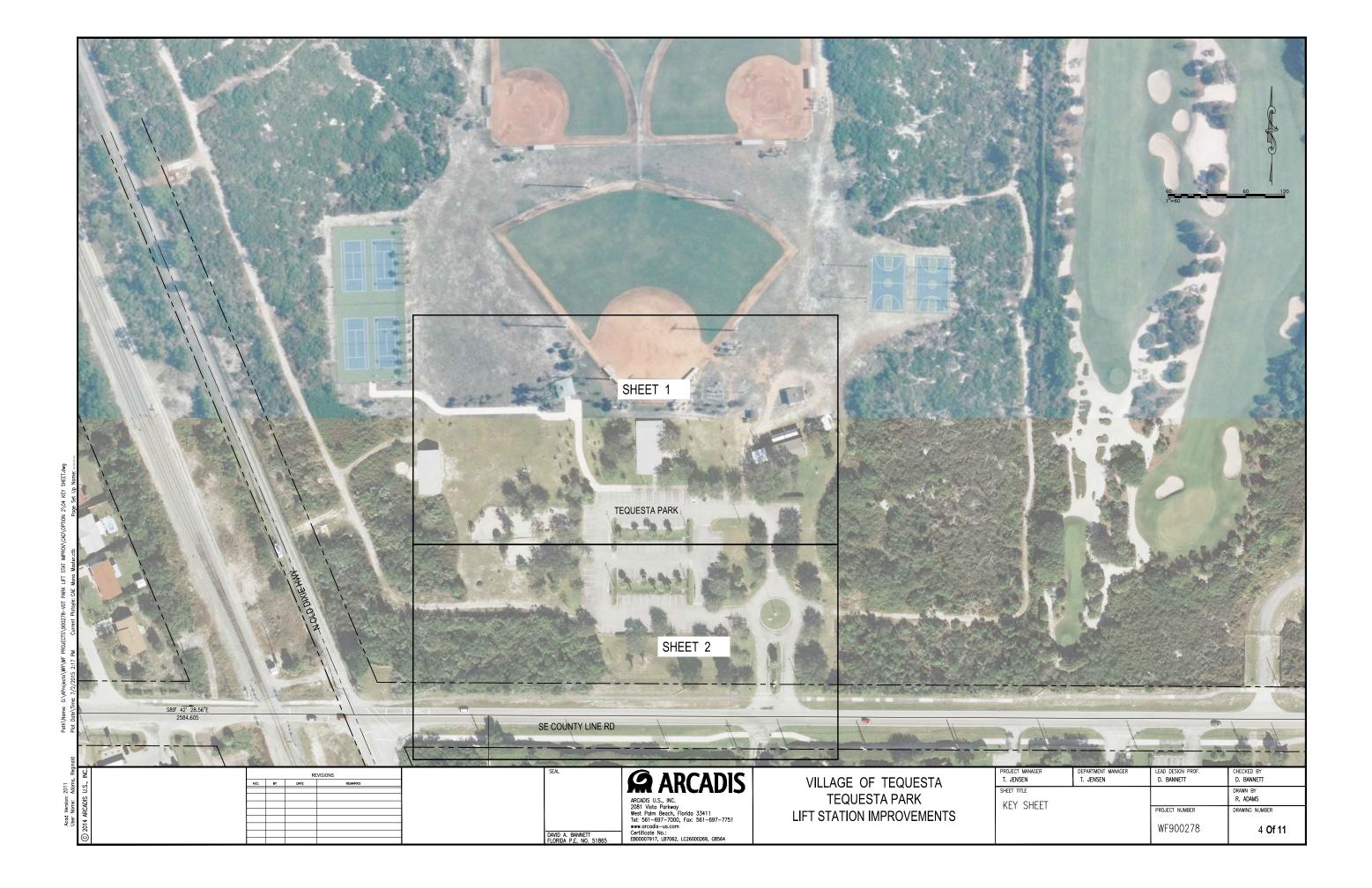
| Г | ABBRI | EVIATIONS | | | | | | | | | | | | | | |
|---------------------------|----------------|---|---------------|--|--------------|---|--------------|--|--------------|--|----------------|---|---------------------------|---|-------------------------------|----------------|
| | & | AND | CONN | CONNECTION | G | NATURAL GAS | MFGR | MANUFACTURER | PVC | POLYVINYL CHLORIDE | THK | THICK (NESS) | | | | |
| | 0 | AT AREA | CONST | CONSTRUCTION | GA GAL | GAUGE, GAGE | MGD MH | MILLION GALLONS PER DAY MANHOLE | PVDF PVMT | POLYVINYLIDENE FLUORIDE PAVEMENT | TKD | TANK DRAIN | | | | |
| | AASHO | AMERICAN ASSOC. OF STATE HIGHWAY OFFICIALS | COORD | CONTINUOUS COORDINATE | GALV GALV | GALLON GALVANIZED | MHW | MEAN HIGH WATER | PVRV | PRESSURE VACUUM RELIEF VALVE | TM TOB | TELEMETER OR TIME TOP OF BERM/BANK | | LEGEND: | | |
| | AASHT0 | AMERICAN ASSOC. OF STATE HIGHWAY & | | | GE | GROOVED END | MIN | MINIMUM | POW | POTABLE WATER | TOC | TOP OF CURB/CONCRETE | | > - ANCHOR | | |
| | ABAND | TRANSPORTATION OFFICIALS ABANDONED | CTR CTU | CENTER CENTRAL TELEMETRY UNIT | GEN GGR | GENERATOR | MISC MJ | MISCELLANEOUS MECHANICAL JOINT | PW PWM | PLANT WATER POTABLE WATER METER | TOF | TOP OF FOOTING | | ■■ - BACKFLOW PREVEN - 2" 22.5" BEND | IOR | |
| | ABC | AGGREGATE BASE COURSE | CULV | CULVERT | GGR | GRAD (E) (ING) | MLW | MEAN LOW WATER | PYE | POLYETHYLENE | TOP TOW | TOP OF PIPE TOP OF WALL | | ρ − BLOW−OFF □□□ − CATCH BASIN | | |
| | AC | ACRE | CUP | COPPER PIPE | GIP | GALVANIZED IRON PIPE | MO | MASONRY OPENING | | | TP | TURNING POINT | | CABLE TELEVISION | | |
| | addl adj | ADDITIONAL ADJUSTABLE | CW CY | COLD WATER CUBIC YARD | GPD GPH | GALLONS PER DAY GALLONS PER HOUR | MOD MON | MODIFY MONUMENT | QTY | QUANTITY | TPY | TEMPORARY | | CABLE TELEVISION DRAIN | HANDHOLE | |
| | ADPT | ADAPTER | 0. | CODIC IVEC | GPM | GALLONS PER MINUTE | | | RAD, R | RADIUS | Tran Trans | Transfer Transition | | ELECTRIC HANDHOL FLECTRIC PANEL THE COMMENT THE C | E | |
| | AFF | ABOVE FINISHED FLOOR | | 252.07.4517 | GR | GRADE | MOT MPH | MAINTENANCE OF TRAFFIC | RCONC RCP | REINFORCED CONCRETE | TURB | TURBIDITY | | OP OF THE PROPERTY OF THE PRO | PAD | |
| | AFG AGGR | ABOVE FINISHED GRADE AGGREGATE | DEPT DEMO | DEPARTMENT DEMOLITION | GRAV GND | GRAVITY GROUND | MTD | MILES PER HOUR MOUNTED | RCP | REINFORCED CONCRETE PIPE | TWP TYP | TOWNSHIP TYPICAL | | FIRE HYDRANT | | |
| | ALT | ALTERNATE | DET | DETAIL | GRTG | GRATING | MTL | METAL | RD | ROAD, ROOF DRAIN | ITP | TTPICAL | | | | |
| | ALUM APPROX | ALUMINUM APPROXIMATE | DFT DHW | DRY FILM THICKNESS DESIGN HIGH WATER | GSKT | GASKET CHEST DIDE | | | RDWY RED | ROADWAY REDUCER | UD | UNDERDRAIN | | .☆. – LIGHT | | |
| | ASPH | ASPHALT | DI | DUCTILE IRON | GSP | GALVANIZED STEEL PIPE | # | NUMBER | REF | REFERENCE | UG | UNDERGROUND | | | | |
| | | NC ASPHALTIC CONCRETE | DIA | DIAMETER | Н | HIGH | N | NORTH, NORTHING | REINF | REINFORCING | USGS | US GEOLOGICAL SURVEY | | PRO - UNDERGROUND PRO | DPANE TANK | |
| | ASSOC ASTM | ASSOCIATION AMERICAN SOCIETY FOR TESTING MATERIALS | DIAG DIM | DIAGONAL DIMENSION | HDB HDPE | HORIZONTAL DIRECTIONAL BORE HIGH DENSITY POLYETHYLENE | NC NEC | NORMALLY CLOSED NATIONAL ELECTRIC CODE | REM REQ'D | REMOVE REQUIRED | UT | UNDERGROUND TELEPHONE CABLE | | TELEPHONE RISER STORM MANHOLE | | |
| | AUTO | AUTOMATIC | DIP | DUCTILE IRON PIPE | HDR | HEADER | NEMA | NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION | RGE | RANGE | UON UV | UNLESS OTHERWISE NOTED ULTRAVIOLET | | - SANITARY MANHOLE | | |
| | AUX | AUXILIARY | DISCH | DISCHARGE | HDWL | HEADWALL | NGVD | NATIONAL GEODETIC VERTICAL DATUM | RES | RESIDUAL | 01 | CETTATIONE | | | | |
| | AVE AVG | AVENUE AVERAGE | DIV DL | Division Dead Load | HDWR HFAC | HARDWARE HARNESSED FLANGED ADAPTOR COUPLING | NIC NO | NOT IN CONTRACT | REV RM | REVISION REFERENCE MONUMENT | ٧ | NO TO | | → STREET SIGN | | |
| | AWG | AMERICAN WIRE GAUGE | DMH | DROP MANHOLE | HGR | HANGER | NOM | NORMALLY OPEN/NUMBER NOMINAL | RND | ROUND | V | VOLTS VACUUM, VOLTS ALTERNATING CURRENT | | | | |
| 1 | AWWA | AMERICAN WATER WORKS ASSOCIATION | DN DR | DOWN DRAIN, DRIVE | HORIZ | HORIZONTAL | NPT | NATIONAL PIPE THREAD | RPM RR | REVOLUTIONS PER MINUTE | VAR | VARIOUS, VARIABLE | | Ø - WOOD UTILITY POLI | <u> </u> | |
| J | | | DRWY | DRIVEWAY | HP HR | HIGH POINT OR HORSEPOWER HOUR | NPW NRS | NON-POTABLE WATER NON-RISING STEM | RK RS | RAILROAD RAW SEWAGE | VB VC | VALVE BOX VERTICAL CURVE | | | | |
| | B/B | BACK TO BACK | DS | DOWNSPOUT | HT | HEIGHT | NTS | NOT TO SCALE | RT | RIGHT | VCP | VITRIFIED CLAY PIPE | | | | |
| | BC BCCAP | BACK OF CURB BITUMINOUS COATED CORRUGATED ALUMINUM PIPE | DV DWG | DIAPHRAGM VALVE DRAWING | HVAC HW | HEATING, VENTILATING & AIR CONDITIONING HOT WATER | 00 | ON CENTED | RW RWL | RECLAIMED WATER, REUSE WATER RECLAIMED WATER LINE | VB | VALVE BOX | | →RR — UNDERGROUND IRR —T — UNDERGROUND TEL | IGATION LINE | |
| 1 | BCCMP | BITUMINOUS COATED CORRUGATED METAL PIPE | 5110 | 2.3.3.00 | HWL | HIGH WATER LEVEL | OC OD | ON CENTER OUTSIDE DIAMETER | RWM | RAW WATER MAIN | VEL VERT | VELOCITY VERTICAL | | —¬¬v— – UNDERGROUND CAE | BLE TELEVISION LINE | |
| 1 | BCPA | BITUMINOUS COATED PIPE ARCHED | - | EAST, EASTING | HWR | HOT WATER RETURN | 0E | OVERHEAD ELECTRIC | R/W | RIGHT-OF-WAY | VFD | VARIABLE FREQUENCY DRIVE | | —unk— — UNDERGROUND CAE —w— — UNDERGROUND WA | BLE UNKNOWN UTILITY | |
| J | BE BEL | BURIED ELECTRIC BELOW | EA | EAST, EASTING EACH | HWS HWT | HOT WATER SUPPLY HOT WATER TANK | OF OPNG | OUTSIDE FACE OPENING | | | VOL VT | VOLUME VENT | | ——W— — UNDERGROUND WA ——////, — EXISTING WM TO B | | PLACE |
| | BF | BLIND FLANGE, BOTH FACES | E/E | END TO END | HWY | HIGHWAY | 0/0 | OUTSIDE TO OUTSIDE | SAN | SANITARY SEWER | VI | ACIAI | | | | |
| | BI BIT | BLACK IRON BITUMINOUS | EF EFL | EACH FACE EFFLUENT | HYD | HYDRANT | OPER | OPERATOR | SCADA | SUPERVISORY CONTROL AND | W/ | WITH | | | | |
| | BL | BASE LINE | EL | ELEVATION | | | OPP OPT | OPPOSITE OPTION (AL) | SEC | DATA ACQUISITION SECTION | W/O WC | WITHOUT WATER CLOSET | | | | |
| | BLDG | BUILDING | ELEC | ELECTRIC(AL) | ID | INSIDE DIAMETER | ORIG | ORIGINAL | SCH | SCHEDULE | WD | WIDTH | | | | |
| | BLKG BLVD | BLOCKING BOULEVARD | ELEV ELLUP | ELEVATION ELLIPTICAL | I.E. IF | INVERT ELEVATION INSIDE FACE | OT | OVERHEAD TELEPHONE | SD SEC | STORM DRAIN SECTION | WE | WELDED END | | | | |
| | ВМ | BENCH MARK | EMERG | EMERGENCY | in | INCH | OVHD | OVERHEAD | SF, SQ F | | WF WHA | WALL FAUCET, WIDE FLANGE WATER HAMMER ARRESTER | | | | |
| | BOT BOW | BOTTOM BOTTOM OF WALL | ENGR | ENGINEER | INF | INFLUENT | | | SHT | SHEET | WL | WIND LOAD | | | | |
| | BP | BASE PLATE | EOP EPA | EDGE OF PAVEMENT ENVIRONMENTAL PROTECTION AGENCY | ins int | INSIDE INTERIOR | PAVT | PAVEMENT POPULATION | SI, SQ IN | SQUARE INCH | WM | WATER MAIN | | | | |
| | BRG | BEARING | EQ | EQUAL(LY) | INV. | INVERT | PC PCC | POINT OF CURVATURE POINT OF COMPLEX CURVATURE | SIM | SIMILAR | WPF WT | WEATHERPROOF WATER TABLE | | | | |
| | BSP BST | BLACK STEEL PIPE BELL SOUTH TELEPHONE | EQIV | EQUIVALENT | IP IO | IRON PIPE BOUNDARY IRRIGATION QUALITY WATER MAIN | PCF | POUNDS PER CUBIC FOOT | SLV SOJ | SLEEVE SLIP ON JOINT | WTP | WATER TREATMENT PLANT | | | | |
| | BT | BURIED TELEPHONE | EQUIP ERCP | EQUIPMENT ELLIPTICAL REINFORCED CONCRETE PIPE | IR | IRON ROD BOUNDARY | PCP PE | POWER AND CONTROL PANEL PLAIN END | SPEC | SPECIFICATION, SPECIFIED | WW WWTF | WASTEWATER WASTEWATER TREATMENT FACILITY | | | | |
| | BTU | BRITISH THERMAL UNIT | ESMT | EASEMENT | ISOL | ISOLATOR, ISOLATION | PERF | PERFORATED | SPL | SAMPLE | WWF | WELDED WIRE FABRIC | | | | |
| awg me:- | BTV BTWN | BURIED CABLE TV BETWEEN | EW ES | EACH WAY EACH SIDE | JB | JUNCTION BOX | PERIM | PERIMETER | SQ SQ FT | SQUARE SQUARE FOOT | | | | | | |
| END. | BVL | BEVEL (ED) | ESMT | EASEMENT | JCT | JUNCTION | PERP PH | PERPENDICULAR PHASE | SQ YD | SQUARE YARD | XFMR X SECT | TRANSFORMER CROSS SECTION | | | | |
| et U | BYP | BYPASS | EXIST | EXISTING | JT | JOINT | PI | POINT OF INTERSECTION | SR SS | STATE ROAD STAINLESS STEEL | | | | | | |
| 2\03 ge_S | CAP | CORRUGATED ALUMINUM PIPE | EXP EXT | EXPANSION EXTERIOR | K | KIP (1000 LB) | PINF PK | PRIMARY INFLUENT PK NAIL | SSP | STAINLESS STEEL PIPE | YD YR | yard Year | | | | |
| NO P. P. | CAP | CAPACITY | EXTD | EXTENDED | | | PL | PROPERTY LINE, PLATE | ST | STREET | TIX. | ILAK | | | | |
| /OPT | CATV CB | CABLE TV CATCH BASIN | | | LA LAB | LIGHTNING ARRESTER LABORATORY | PLC | PROGRAMMABLE LOGIC CONTROLLER | STA STD | STATION STANDARD | | | | | | |
| gg. | c/c | CENTER TO CENTER | FB0 | FURNISHED BY OTHERS | LB | POUND | PNL POC | PANEL POINT OF CURVE | STL | STEEL | | | | | | |
| £ 80€ | CCW | COUNTER CLOCKWISE | FC | FLEX CONNECTION | LBS LCP | POUNDS | POJ | PUSH ON JOINT | STM STRUC | STORM SEWER STRUCTURE | | | | | | |
| r IMP | CDF CDT | CONTROL DENSITY FILL CONDUIT | FD FDN | Floor drain Foundation | LEP | LOCAL CONTROL PANEL LINEAL FEET | POLYE PP | POLYETHYLENE POWER POLE | STR | STRUCTURE | | | | | | |
| STAT | CF | CUBIC FOOT | FDOT | FLORIDA DEPARTMENT OF TRANSPORTATION | LG | LONG | PPAWS | PREFORMED PLASTIC ADHESIVE WATERSTOP | SUPPTS | SUPPORTS | | | | | | |
| Monc | CFM CFS | CUBIC FEET PER MINUTE CUBIC FEET PER SECOND | FE FFE | FLOOR ELEVATION FINISHED FLOOR ELEVATION | LGTH I IN | LENGTH LINEAR | PPM | PARTS PER MILLION | SW SWD | SOLVENT WELDED SIDE WATER DEPTH | | | | | | |
| PARK | C&G | CURB AND GUTTER | F/F | FACE TO FACE | LLH | LONG LEG HORIZONTAL | PR PRC | PRESSURE RATED POINT OF REVERSE CURVE | SWK.,S/W | | | | | | | |
| 70T F syle: | CHAMF | CHAMFER | FGL | FIBERGLASS | LLV | LONG LEG VERTICAL | PRCST | PRECAST | SY | SQUARE YARD | | | | | | |
| 78-J | CI CIP | CAST IRON CAST IRON PIPE | FH FIG | FIRE HYDRANT | LMRK LOC | LIMEROCK LOCATION, LOCATED | PREFAB | PREFABRICATED | SYM | SYMMETRICAL | | | | | | |
| 3002 rent | CIPL | CAST IN PLACE | FIN | Figure Finish(ED) | LONG | LONGITUDINAL | PRES PRIM | PRESSURE PRIMARY | | | | | | | | |
| Cur | CIR | CIRCLE | FL | FLOW LINE | LP | LIGHT POLE | PRM | PERMANENT REFERENCE MONUMENT | T | TANGENT | | | | | | |
| _ SONEC | CIRC CJ | CIRCUMFERENTIAL CONSTRUCTION JOINT | | X FLEXIBLE | LPSS LR | LOW PRESSURE SANITARY SERVICE LONG RADIUS | PROP PRV | PROPOSED PEUEE VALVE | TAN TB | TANGENCY TOP OF BEAM | | | | | | |
| A A | CL | CENTER LINE | FLG, FLG | o'd flange(d) floor | LS | LUMP SUM, LIFT STATION | PS | PRESSURE RELIEF VALVE PUMP STATION | ТВМ | TEMPORARY BENCH MARK | | | | | | |
| WR\w 11:3 | CLR | CLEAR | FM | FORCE MAIN | lt Lts | LEFT LENGTH TO SUIT | PS CONC | PRESTRESSED CONCRETE | TBR | TO BE REMOVED | | | | | | |
| cts\\ | CM CM | CONCENTRATE MAIN (R.O.) CONCRETE MONUMENT | FPL FPM | FLORIDA POWER & LIGHT FEET PER MINUTE | LWL | LOW WATER LEVEL | LB LBS | POUND POUNDS | TB-XX T&B | TEST BORING-XX (E.G. TB-1) TOP AND BOTTOM | | | | | | |
| ² roje /2/2 | CMP | CORRUGATED METAL PIPE | FRP | FIBERGLASS REINFORCED PLASTIC | | | PSF | POUNDS PER SQUARE FOOT | TCP | TERRA COTTA PIPE | | | | | | |
| G:\AF | CMU CO | CONCRETE MASONRY UNIT CLEANOUT | FT | FOOT, FEET | MAINT | MAINTENANCE | PSI | POUNDS PER SQUARE INCH | TD TDH | TRENCH DRAIN TOTAL DYNAMIC HEAD | | | | | | |
| me: ∛∏m | COL | COLUMN | FTG FURN | FOOTING, FITTING FURNISHED | MASY | MASONRY | PSIA PSIG | POUNDS PER SQUARE inch absolute POUNDS PER SQUARE INCH GAGE | TECH | TECHNICAL | | | | | | |
| h/Na. | COMP | COMPRESSIBLE | FUT | FUTURE | MATL MAX | MATERIAL MAXIMUM | PT | POINT/POINT OF TANGENCY | TEL | TELEPHONE | | | | | | |
| Plot | CONC | CONCRETE | | | MFG | MANUFACTURING | PUE | PUBLIC UTILITY EASEMENT | TEMP | TEMPORARY | | | | | | |
| | | | | | | | | | | | | | | | | |
| _] | | | | | | | | | | | | | | | | |
| ginala | 1 | 1 | | 1 | | Los | EAL . | 1 = | | | | | DDO IEST AMMOED | DEDADTMENT WANTED | LEAD DECICAL PROF | ONEONED DA |
| ls, Re | ĭ. | - | NO. BY | REVISIONS DATE REMARKS | | SE | LML | ARCAD | ic l | \/II | OF T | EQUESTA | PROJECT MANAGER T. JENSEN | DEPARTMENT MANAGER T. JENSEN | LEAD DESIGN PROF. D. BANNETT | D. BANNETT |
| 2011 Adam | i.s. | <u> </u> | NO. BY | MARKS NEMARKS | | | | | ا دار | | | | SHEET TITLE | 1 | | DRAWN BY |
| sion: | ADIS | | | | | | | ARCADIS U.S., INC. | | TEQl | JESTA | PARK | LEGEND | | | R. ADAMS |
| Nan | ARC | | | | | | | 2081 Vista Parkway West Palm Beach, Florida 33411 | | LIET STATIC | NI IMD | DOVEMENTS | | | PROJECT NUMBER | DRAWING NUMBER |

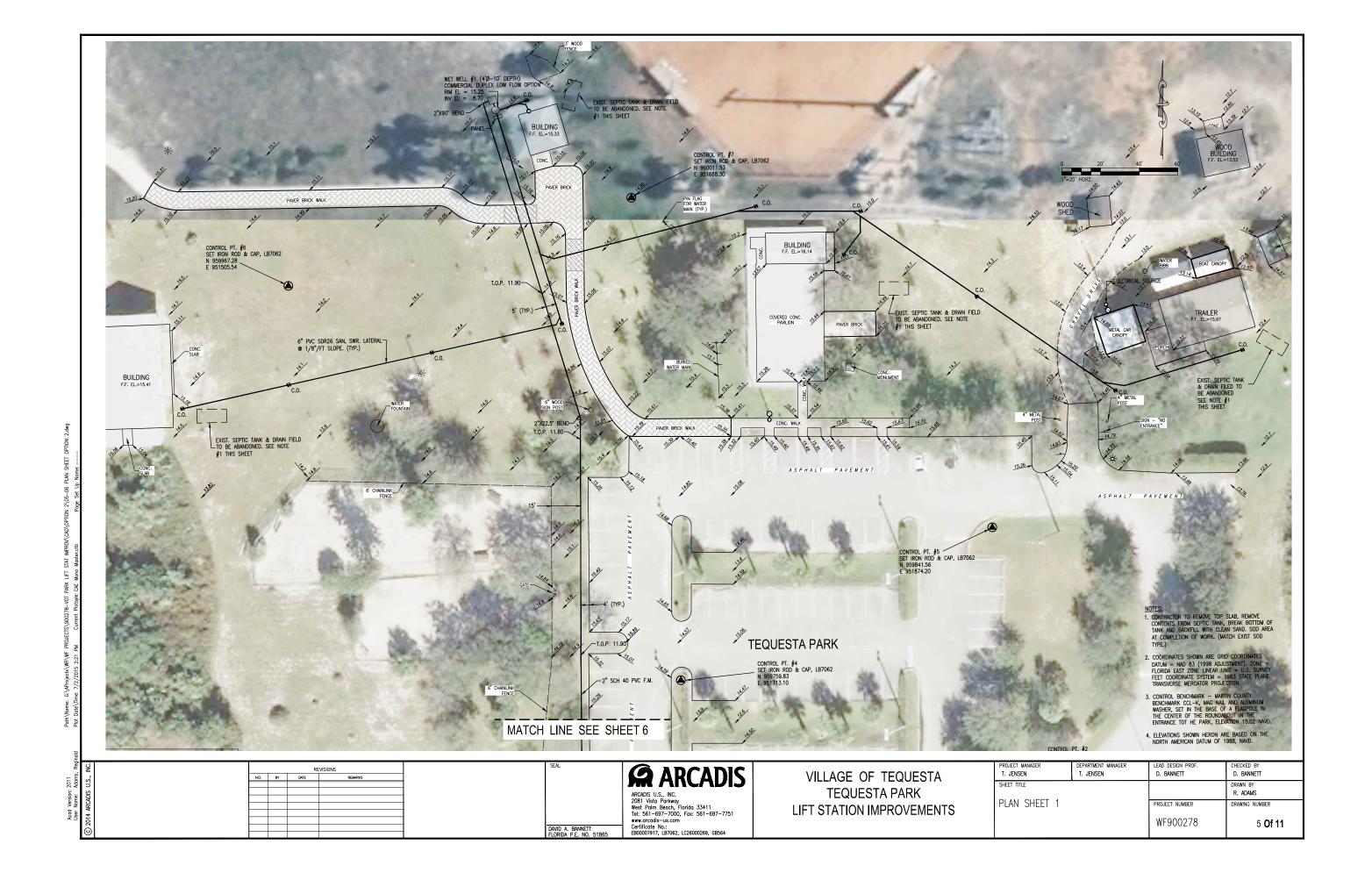
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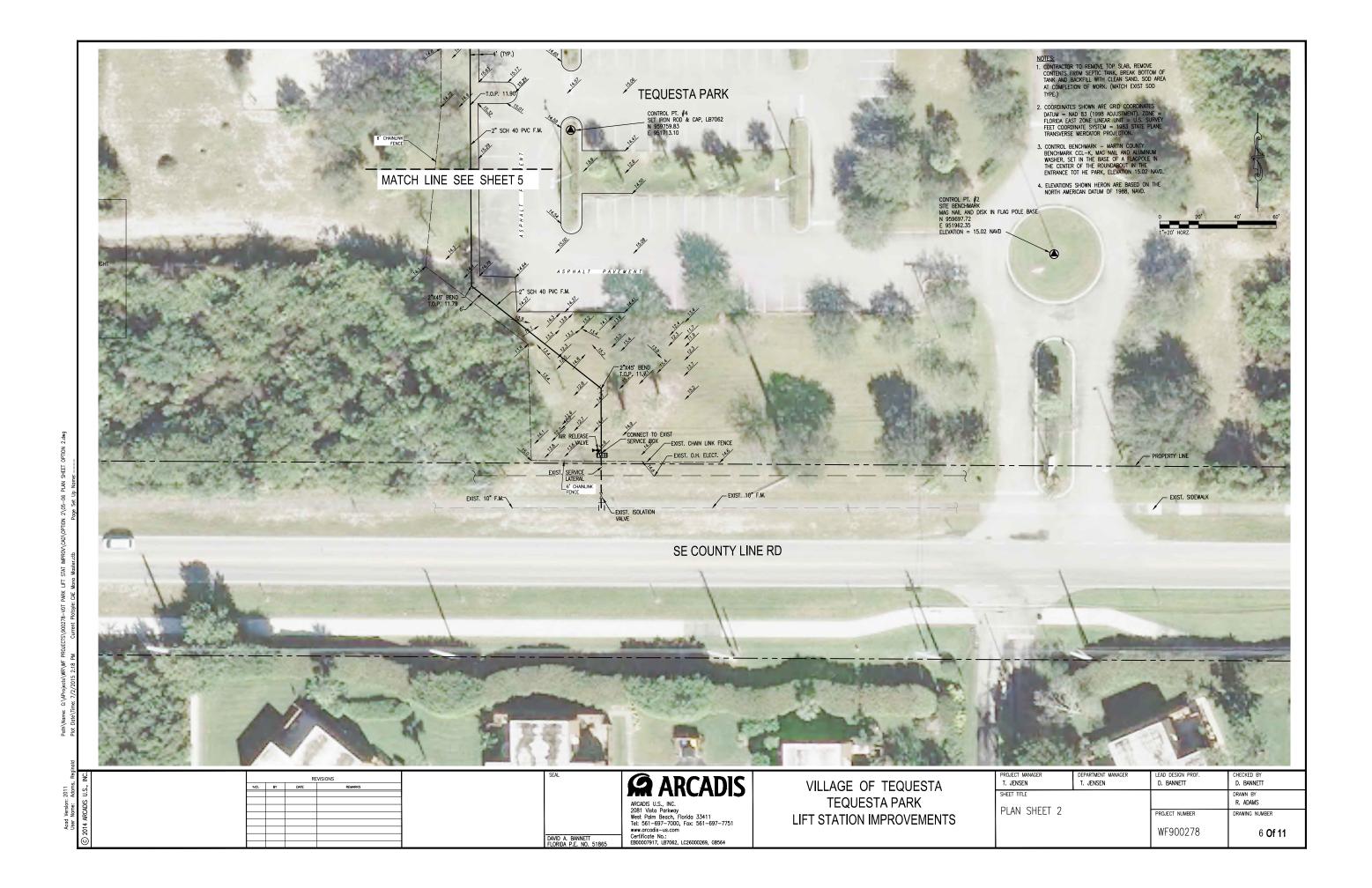
2081 Vista Parkway
West Palm Beach, Florida 33411
Tel: 561–697–7000, Fax: 561–697–7751
www.arcadis—us.com
Certificate No.:
EB00007917, LB7062, LC26000269, GB564

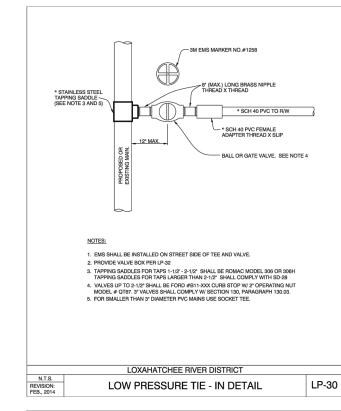
LIFT STATION IMPROVEMENTS

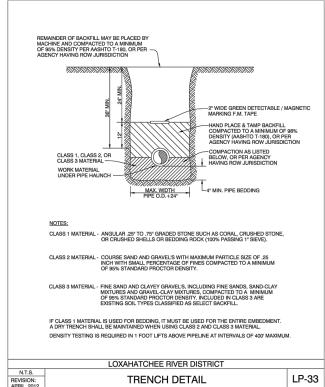
| PROJECT MANAGER T. JENSEN | DEPARTMENT MANAGER T. JENSEN | LEAD DESIGN PROF. D. BANNETT | CHECKED BY D. BANNETT |
|---------------------------|------------------------------|-------------------------------|-----------------------|
| | I. JENSEN | D. BANNETI | |
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| LEGEND | | PROJECT NUMBER | DRAWING NUMBER |
| | | WF900278 | 3 Of 11 |
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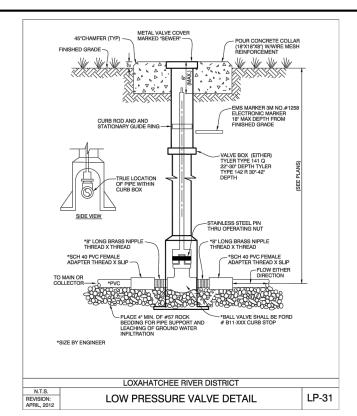


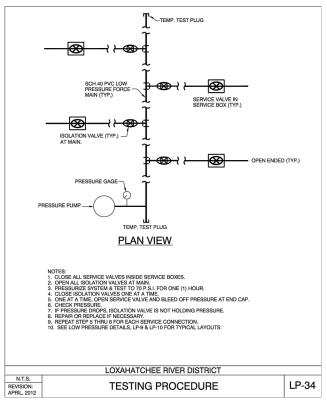


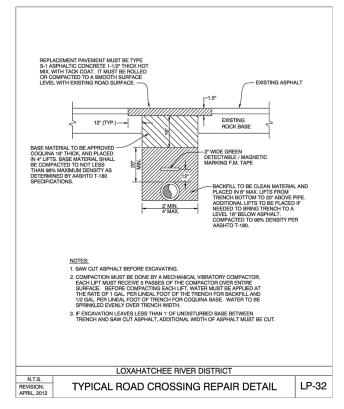


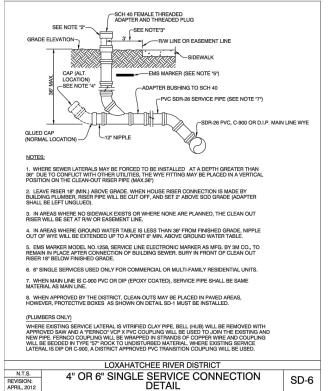




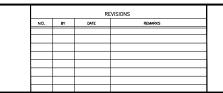








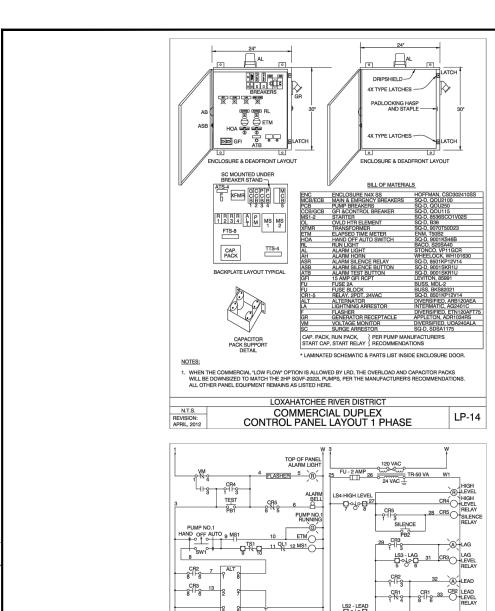


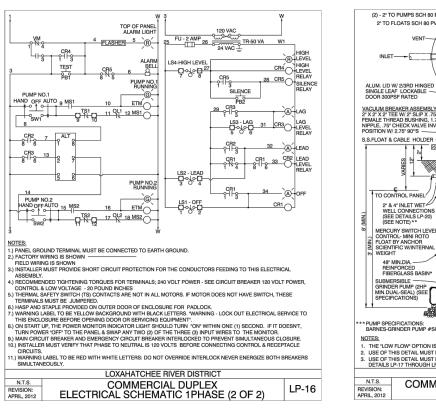


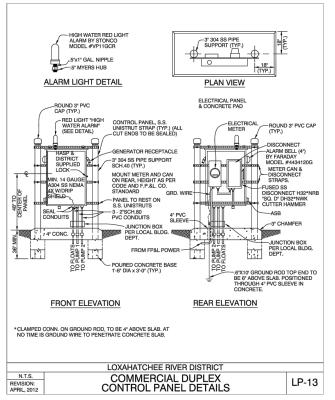
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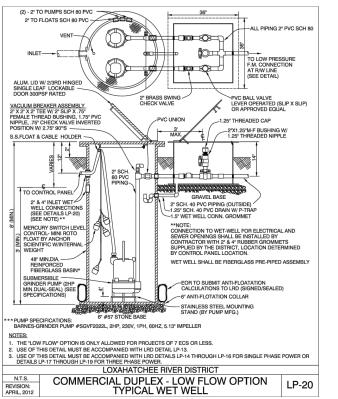
ARCADIS U.S., INC. 2081 Visto Portway West Palm Beach, Florida 33411 Tel: 561–697–7000, Fox: 561–697–7751 www.arcadis-us.com Certificate No: EB00007917, IB7062, U26600269, GB564 VILLAGE OF TEQUESTA TEQUESTA PARK LIFT STATION IMPROVEMENTS

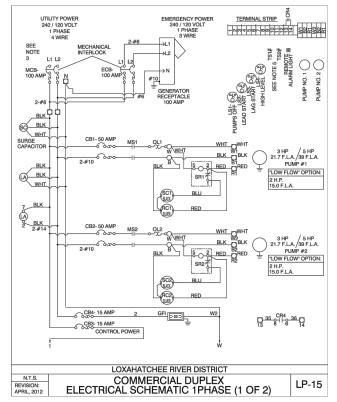
| PROJECT MANAGER T. JENSEN | DEPARTMENT MANAGER T. JENSEN | LEAD DESIGN PROF. D. BANNETT | CHECKED BY D. BANNETT |
|------------------------------|------------------------------|------------------------------|-----------------------|
| SHEET TITLE | | | DRAWN BY R. ADAMS |
| DETAILS 1 | | PROJECT NUMBER | DRAWING NUMBER |
| | | WF900278 | 7 Of 11 |

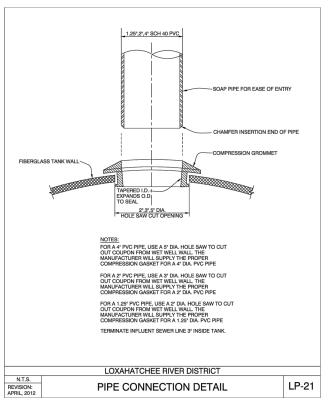












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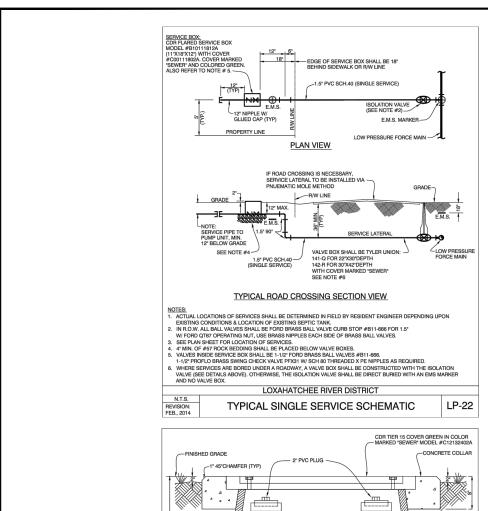
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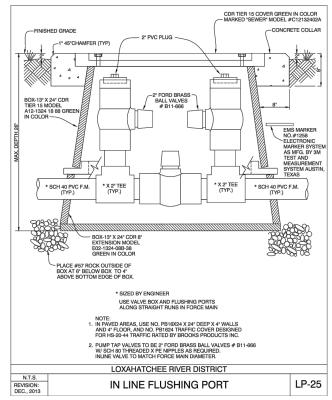
PROJECT MANAGER
T. JENSEN
T. JENSEN
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D. BANNETT
D. BANNETT
DETAILS 2

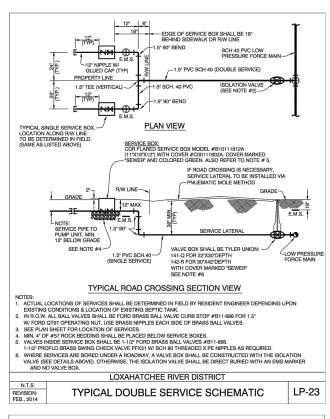
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R. ADAMS
PROJECT NUMBER
DRAWING NUMBER
WF900278
BEPARTMENT MANAGER
T. JENSEN
T. JENSEN
T. JENSEN
DRAWING NUMBER
WF900278
B Of 11

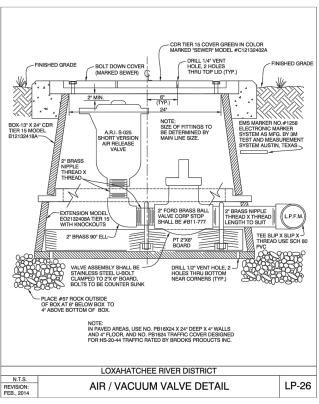
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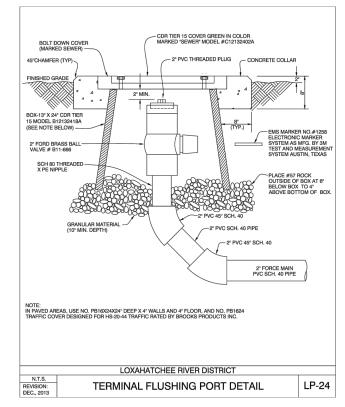
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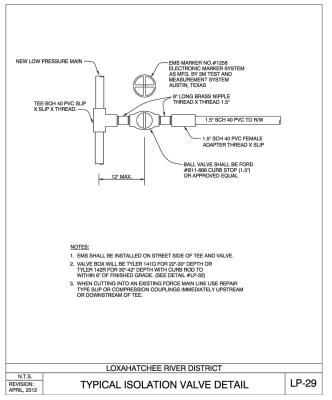


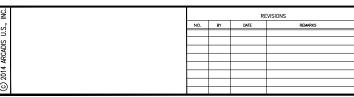












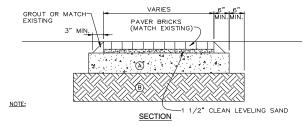
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VILLAGE OF TEQUESTA
TEQUESTA PARK
LIFT STATION IMPROVEMENTS

| PROJECT MANAGER T. JENSEN | DEPARTMENT MANAGER T. JENSEN | LEAD DESIGN PROF. D. BANNETT | CHECKED BY D. BANNETT |
|------------------------------|------------------------------|-------------------------------|--------------------------|
| SHEET TITLE | | | DRAWN BY R. ADAMS |
| DETAILS 3 | | PROJECT NUMBER | DRAWING NUMBER |
| | | WF900278 | 9 Of 11 |

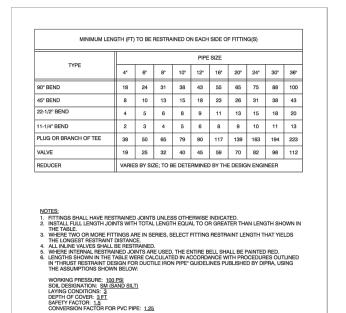
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User Name: Adams, Reginald



- THIS DETAIL REPRESENTS THE MINIMUM REQUIREMENTS FOR BRICK PAVER RESTORATION. THE
 CONTRACTOR WILL BE REQUIRED TO RESTORE THE BRICK PAVERS TO EXISTING CONDITIONS IN ACCORDANCE TO AS THEY EXIST.
- 2. THE CONTRACTOR SHALL COMPACT SOIL IN CONFORMANCE WITH THE SPECIFICATIONS FOR PAVEMENT (A) BASE: 8" LIME ROCK OR CEMENTED COQUINA, COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. BASE MATERIAL SHALL MEET GRADING REQUIREMENTS OF ASTM C33 STANDARD SPECIFICATION FOR CONCRETE AGGREGATE.
- (B) SUBGRADE: STABILIZED 12" OF GRANULAR MATERIAL WITH A MIN. 75 PSI FBV, COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180

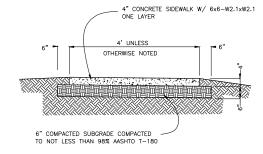
TYPICAL BRICK PAVER REPLACEMENT DETAIL



LOXAHATCHEE RIVER DISTRICT

FORCE MAIN THRUST RESTRAINT CHART

SD-18



PROVIDE ONE CONTROL JOINT EVERY 8 FEET AND TWO AT THE CORNERS.

SIDEWALK DETAIL

| Reginald | |
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| DAME A DAMETT | |
| DAVID A. BANNETT FLORIDA P.E. NO. 51865 | |
| FLURIDA P.E. NO. 51865 | |



VILLAGE OF TEQUESTA TEQUESTA PARK LIFT STATION IMPROVEMENTS

| PROJECT MANAGER T. JENSEN | DEPARTMENT MANAGER T. JENSEN | LEAD DESIGN PROF. D. BANNETT | CHECKED BY D. BANNETT |
|---------------------------|------------------------------|-------------------------------|-----------------------|
| SHEET TITLE | | | DRAWN BY R. ADAMS |
| DETAILS 4 | | PROJECT NUMBER | DRAWING NUMBER |
| | | WF900278 | 10 Of 11 |

