

#### **DEVELOPMENT HANDBOOK**

**New Construction Policy** 

**Construction Specifications** 

**Forms and Fees** 

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Revised: March 2004
June 2005
October 2008
August 2012
November 2012
November 2013
September 2018
June 2021

October 2021

## **INFORMATION FOR DEVELOPERS**

#### LINE EXTENSION RULES AND REGULATIONS

If you have any specific questions or concerns, you may call the office. Developers and engineers should be aware that a **\$115.00** Plan Review Fee is payable when plans are submitted for review. Prior to GPIWA signing a DEP permit form, the following capital charge collection policy must be followed:

"Policy adoption and the definition of terms contained within shall be governed by the <u>Greater Pine Island Water Association, Inc. (GPIWA) Rules and Regulations</u> (January 12, 2000) and as hereinafter amended.

Owners, Developers, Contractors, etc. that request GPIWA execute the required Florida Department of Environmental Protection (FDEP) form 62-555.900(7), "Notice of Intent to Use The General Permit For Construction of Water Main Extensions forPWS's" or its successor form(s) (Permit), shall pay to the GPIWA fifty percent (50%) of the total of all Capital Charges that are normal and customarily generated by the unit(s) defined within the Permit. Such charges shall be paid to the Association prior to the execution of the Permit by GPIWA staff. Capital Charges shall be calculated based on the GPIWA Schedule of Fees and Water Rates in existence at the time of application.

The balance of the Capital Charges (the remaining fifty percent) shall become due and payable on a per unit basis along with all other customary fees and charges due when formal application for water service is made to GPIWA.

Policy approved by the GPIWA Board of Directors and effective and incorporated into the Greater Pine Island Water Association, Inc. Rules and Regulations this 22<sup>nd</sup> day of June 2004."

Call or email the GPIWA Business Office for the current capital charge fee.

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#### **NEW CONSTRUCTION POLICY - GENERAL**

#### **INTRODUCTION**

The purpose of this document is to provide technical and procedural guidelines for the construction of multiple service connections, water mains, and/or other water infrastructure or facilities to be dedicated to the Greater Pine Island Water Association, Inc. (GPIWA). The document should serve as a guideline for developers, engineers, contractors, and other design professionals.

The intent of this manual is to maintain consistency with all local, state, and federal regulations and does not preclude compliance with SFWMD, FDEP, USACOE, DNR, Lee County Development Standards, and the Lee County Utilities Manual.

Technical specifications and details have been provided only in specific instanceswhere GPIWA requirements differ from Lee County Standards. All other provisions of the Lee County manual apply. Design professionals should be aware of these minor differences before specifying water service in the GPIWA franchise area. Any deviations with the technical specifications and details or conflicts with local codes and ordinances should be noted prior to plan submittal.

#### **PRELIMINARY PLANNING**

Developers, Owners, Contractors, and others (Developers) wishing to add infrastructure that is 4" or above line size to the GPIWA water system should contact the Association's Membership Coordinator to confirm that water service is available from GPIWA and pick-up a copy of GPIWA's "Application to Construct". If the line size to be extended is 3" and below you should contact the Membership Coordinator to confirm that water service is available from GPIWA and refer to **Addendum A** in the Development Handbook.

If the Developer wishes to move forward with his/her project, The <u>Application to Construct</u> (appendix "A") should be filled out and submitted to the GPIWA offices with preliminary plans, drawings and/or specifications, along with a non-refundable **\$115.00 Plan Review Fee**. Plans at this stage will be considered 60% complete by GPIWA.

Upon receiving the application, the General Manager, (usually within two weeks) will have the application reviewed by GPIWA management and staff. Once reviewed, comments and corrections shall be sent back to the Developer/Engineer. Plan corrections should be made based on the initial GPIWA plan review and a sent back to GPIWA. Plans at this point shall be considered 90% complete. GPIWA will perform a final plan review at this point and forward any additional comments back to the developer. Incorporating these final comments into the development plans, will bring theplans to the 100% approval level.

Three (3) copies of the Final Plans should be submitted to GPIWA with the developer's request to have Florida DEP form 62-555.900(7), "Notice of Intent to Use the General Permit for Construction of Water Main Extensions. GPIWA requires up to 14-days to review the final plans and execute the Florida DEP form.

#### **RESERVATION OF CAPACITY - CAPITAL CHARGES**

The Developer shall pay to GPIWA fifty percent (50%) of the Capital Charges calculated for the Development prior to the execution of the FDEP form 62-555.900(7), which effectively reserves water system capacity for the development. GPIWA's Membership Coordinator should be contacted for a determination of the actual dollar amount.

#### PRE-CONSTRUCTION MEETING

The Developer may schedule a pre-construction meeting with the GPIWA staff after FDEP has approved the "General Permit to Construct" application (62-555.900(7). A copy of the approved FDEP permit for general utility construction should be given to GPIWA at this time (if not previously forwarded). Appendix B is a listing of preconstruction topics and milestones that require notification and inspection during the course of construction. Following a successful pre-construction meeting, and payment of a \$25.00/unit Construction Inspection Fee, a "Notice to Proceed" will be issued.

#### CONSTRUCTION

The Developer shall be responsible for engineering, construction and permitting for all on-site infrastructure. This document shall be the controlling document for construction specifications. Upon completion of the project, ownership of all on-site water infrastructures shall be dedicated to the Association; such infrastructure shall have a one (1) year unlimited warranty for parts and labor.

The Developer shall also be responsible for all off-site engineering, construction and permitting (up to and including the physical connection) needed to connect to the Association's infrastructure to the Developer's infrastructure. Upon completion of the project ownership of all off-site water infrastructures shall be dedicated to the Association. Such infrastructure shall have a one (1) year unlimited warranty for parts and labor.

#### JOINT PARTICIPATION AGREEMENT

If during the planning process, GPIWA wishes to upgrade the Developer's proposed infrastructure, and that upgrade will solely benefit GPIWA, the Developer shall negotiate in good faith and make available pricing that will allow the Developer's contractor to make the upgrades at the expense of GPIWA.

#### **INSPECTIONS**

Exposing, tampering with, including making connections to the GPIWA water system, without notifying a GPIWA representative to be on-site to observe, is a Federal Offense. The GPIWA General Manager must be notified at least two working days in advance so that arrangements can be made for an Association employee to be on-site whenever a physical connection is made to the GPIWA water system. No physical contact shall be

made with existing GPIWA water system infrastructure unless supervised by an employee of GPIWA. In addition, the Association reserves the right to inspect any supplies, materials, appearances, construction technique, and/or installations for the project.

GPIWA personnel shall be present during all hydrostatic testing (Form Appendix "D") of pipe and/or fittings if the test is to be considered valid. The Developer shall also be responsible for all required bacteria testing and/or main line clearances. In addition, GPIWA reserves the right to enter the construction area at any time during construction to inspect the placement of appurtenances to be dedicated to the Association.

#### **EASEMENTS**

Through the dedication process, the Developer will grant and convey to the Association, its successors and assigns the non-exclusive right or privilege to maintain water facilities in, under, upon, over, and across those portions of the Developer's Property. In accordance therewith, the Developer agrees to execute specific easementagreements to be recorded in the public records.

For dedicated easement contained on private property, repair/replacement maintenance of any water infrastructure associated with the project shall be limited to the excavation, repair/replacement, backfilling and/or compaction within the easement repair site. Repair/replacement of any disturbed, broken or removed concrete, asphalt, landscaping, irrigation, signs, parking structure, lighting, stanchions, mailboxes, and like structure shall be the responsibility of the Developer or the owner/successor.

#### **RIGHTS OF INGRESS AND EGRESS**

The foregoing grants include the necessary right of ingress and egress to any part of developer's property upon which Association is operating or maintaining water facilities.

#### **DEDICATION OF WATER FACILITIES**

Upon project completion, the Developer will dedicate the constructed water lines, facilities, and/or infrastructure to the Association. Water service will not be provided until all items are complete. Items to be submitted by the project Engineer are included in the Appendix section of this document.

#### **APPLICATION FOR SERVICE**

Once the facilities are dedicated, the Developer or its successors or occupant(s) of Developer's Property, shall make written application through the Association's Membership Coordinator for the opening of an account(s) for service. At the time of application for service, the applicant must become a member of the Association and pay all requisite service charges

#### **TECHNICAL SPECIFICATIONS**

#### **GENERAL:**

Plans must show proposed lines (location, size, type of pipe, etc). They must also show location of valves, fire hydrants, etc.

Upon approval, the plans will be returned to the developer, one (1) set will be retained by GPIWA.

Standard details included in this manual must be included in Engineer's plan sets.

A licensed Contractor shall be utilized for all water main extensions to be dedicated to GPIWA.

#### **MATERIAL:**

All materials must use must meet or exceed the appropriate NSF/ANSI 60 (chemicals), NSF/ANSI 61 (Drinking Water Components), NSF/ANSI 14 (Plastic Piping Components and Materials). In addition, AWWA, GPIWA, and/or Lee County specifications, for materials and construction, where appropriate, must be observed.

#### **WATER MAINS**:

Minimum water main size will be dictated by Lee County Development Standards. Minimum main size for feeding a fire hydrant in the GPIWA system is eight inch (8").

Water mains shall be AWWA C-900, DR18, rubber-gasketed pipe with bell and spigot ends. 3" and smaller lines shall be Schedule 40, PVC rubber-gasketed pipe with bell and spigot ends.

NOTE: A two-inch (2") water line may serve a maximum of five (5) residential lots.

#### **ROAD CROSSINGS:**

All water mains that are placed under concrete or asphalt must be sleeved. Carrier pipe may be DIP, PVC or HDPE.

Casing shall extend a minimum of five (5) feet past roadway edges.

DIP – shall meet the requirements of ASTM A 139, Grade B, with the following wall thickness: 4" - 20" .250 inches 20" - 30" .312 Inches

PVC - DR 14. C-900 HDPE - SDR - 11

At a minimum, all casing pipe shall be twice the diameter of the carrier pipe.

#### **PIPE MATERIAL - GENERAL:**

No Ductile Iron pipe shall be used to transmit water in the GPIWA System.

All pipe used to carry water shall meet NSF/ANSI-14 standards.

PVC pressure pipe for main lines four(4) inches in diameter and greater shall conform to AWWA C-900 and be pressure class 200 psi (DR-18). All PVC pressure pipe smaller than four (4) inches in diameter shall be Schedule 40, (SDR 21, PR200) and shall conform to ASTM D2241. Solvent cement joints shall not be used on any mainline. All materials shall be in accordance with AWWA C-900 and ASTM D2241.

All service piping (under 2") shall be Copper Tube Size (CTS) Polyethylene with a working pressure of 200 PSI and conform to AWWA C901, ASTM3350 and ASTM2737.

#### **PIPE JOINTING:**

Materials and methods shall be in strict accord with the recommendations of the respective pipe manufacturer.

#### **VALVES:**

Gate valves 2" to 3" shall be resilient seat iron body, bronze mounted, non-rising stem type with 0-ring stem seals. Gate valves 4" and larger shall be Tyler DRS 250 or approved equal iron body, resilient seat type in accordance with AWWA C509, with non-rising stem and 0-ring stem seals. All valves shall have a 2" square nut operator. Valves shall meet applicable AWWA Standards.

#### **VALVE BOXES:**

Valve boxes shall comply with the following requirements:

For 2" and larger valves, boxes shall be approved standard Buffalo type, cast iron, adjustable shaft boxes having a minimum shaft diameter of 5-1/4". The castings shall be coated with two coats of coat-tar pitch varnish. The lids of all boxes shall bear the word "Water" or the letter "W". Lids shall be painted blue, except for hydrant valves which shall have the lids painted red.

#### WATER SERVICES - GENERAL (DWG 15 & 16)

The Developer shall be responsible for the placement of a water service and meter box at each location at which a water meter will be needed. Detail w-15 and 16 include the specifications for water service taps and associated appurtenances.

Service lines shall be run to all lots and installed in such a manner so that two lots may be serviced from one location.

Water Services shall consist of the following: stainless tapping saddle, corporation stop, service line, curb stop and meter box. Owner shall be responsible for relocation in the event of grade changes. The minimum size water service line shall be 1". No more than 2 - 5/8" meters may be served by a 1" service line.

Water service lines located under an asphalt or concrete shall be sleeved. Carrier Pipe specifications are defined in "Road Crossing" section.

#### **WATER SERVICES - SPECIFICATIONS**

#### **LOCATION**

Services shall be placed in the utility easement 1-foot inside property corner and extend a minimum of 2' above finish lot grade and placed in meter box, DPW Model D1200 or approved equal.

#### **TAPPING SADDLES:**

Tapping saddles shall be stainless steel, Romac Style 306, or approved equal.

Hot taps for  $1\frac{1}{2}$ " services shall be 2" with a 2" operation nut on the valve and then reduced to  $1\frac{1}{2}$ ".

All services for 1½" or 2" meters shall be 2" service lines.

#### **BALL CORPORATION STOP**

Ball Corporation stops shall be Ford FB-500 or approved equal.

#### CURB STOPS:

Angle stops will be Ford B43-342W with padlock wings.

#### **SERVICE LINES:**

Service lines will be Schedule 40 PVC pipe. Pipe will be capped and marked from the main to the cap with blue tape. Pipe will be staked with a two-by-four, 2' above finish grade and left staked until meter box or vault is installed to finish grade. All PVC service lines will have detection tape. Detection tape will tie back to main line detection tape.

NOTE: The above items are specified exactly in order to maintain standardization throughout the system.

#### FIRE HYDRANTS: (DWG W 2 thru 4)

Hydrants will have a valve between the hydrant and the main. Fire hydrants will have to be approved by the Matlacha-Pine Island Fire Control District. Please refer to standard details for manufacturer. Two valves shall be required if distance from hydrant to main exceeds fifty feet. Hydrant services will be subject to HRS bacteriological testing. See Appendix C.

#### **FIRELINES**: (DWG W-12)

Fire lines are to be tapped directly into water main and a backflow preventer is to be installed. (See Page 12 - Backflow Prevention). The fire line tap fee is listed in GPIWA's Schedule of Fees and Water Rates and GPIWA personnel are required to be present at time of tap. All fire lines will be bacteriologically tested (by Lee County Health Department) from main valve on utility main to the backflow preventer. Fire line backflow preventers must be tagged UL approved. Fireline's 3" and larger shall be equipped with a Double Check Detector Assembly (DCDA), Wilkins 350ADA or approved equal. Fire systems which use chemical additives or auxiliary water supplies shall have an approved Reduced Pressure Detector Assembly (DCDA) installed prior to the connection point to GPIWA's potable water system.

#### **JACK & BORE:**

All jack & bores are to be performed to Lee County Department of Transportation specifications.

#### **RESTRAINTS:**

Restraints will be Mega lug, Tyler MJR glands or approved equal. All threaded rod and nuts will be stainless steel.

#### **WATER FOR CONSTRUCTION:**

Contractor shall install an inline meter for metering all water used for construction. Meter to be furnished by GPIWA at a cost to the Contractor of \$30.00 per month rental fee and commercial rates per 1000 gallons used as detailed on the Schedule of Feesand Water Rates. A \$1,234.00. deposit on the 2" meter will be required and \$1,939.00 on a 3" meter will be required. Deposit will be refunded when the meter is returned to GPIWA in proper working condition and the final bill paid in full.

#### **MISCELLANEOUS INFORMATION:**

Movement of Traffic (MOT) shall be set up in accordance with State and/or County D.O.T. regulations, whichever one has jurisdiction of right-of-way being worked in.

GPIWA approval does not over-ride the need for obtaining applicable State, County, or health department permits.

All water lines shall be flushed at 4 fps.

All water lines will be pressure tested at 150 PSI for two (2) hours. Leakage allowed will be calculated as per AWWA C600-82.

Mains shall be disinfected in accordance with AWWA and FDEP standards; testing and certification for bacteria shall be by, or in accordance with the Lee County Health Department Standards.

If the road is a private road, a utility easement must be granted to GPIWA and properly recorded in the public records of Lee County. The size of the easement will be determined by GPIWA.

Upon final acceptance of water lines by GPIWA, all pipes will become the property of Greater Pine Island Water Association, Inc. Contractor will warrant all installations for one year from date of final acceptance.

#### **LOCAL STANDARDS:**

The term "local standards" as used in connection with the water distribution system, means the standards set by the Greater Pine Island Water Association, Inc., LeeCounty Prior to any construction, the Contractor shall contact the General Manager of Greater Pine Island Water Association, Inc. and arrange a pre-construction meeting.

#### **EXISTING IMPROVEMENTS:**

Maintain in operating condition all active utilities, sewers, gutters and other drains encountered in the utility installation. Repair to the satisfaction of the owner any surface or sub-surface improvement damaged during the course of the work (unless such improvement is shown to be abandoned or removed), whether or not such improvement is shown on the drawings.

#### INTERRUPTION OF SERVICE

Residential customer's whose water service must be discontinued due to development construction/tie-ins shall be notified by the Developer/Contractor at least 48-hours in advance; Five (5) days' notice shall be required for commercial customers. Non-

business hour construction may be needed if it is determined by the General Manager that the workflow of the commercial would be overtly affected.

The Developer/Contractor shall be responsible for issuing the appropriate "Boil Water Notices" and subsequent "Rescission Notices" as required by FDEP and the Lee County Environmental Health Unit. The Developer/Contractor will also be responsible for obtaining the appropriate bacteriological tests and approvals for service as required by FDEP and the Lee County Environmental Health Agency.

In extreme cases as defined by the General Manager, a by-pass to maintain water service to large areas or critical commercial accounts may be necessary.

#### PROTECTION OF PIPING LAID IN AREAS OF FILL: (DWG C-4)

The underground utilities specified in this document shall not be laid in areas of fill prior to the actual performance of the grading operation, unless the depth of the cover over such utilities below existing ground surface is at least 30 inches for 10" and under and 36" for all pipe larger than 10". Such depth of cover requirement may be reduced provided the pipe is protected by concrete cradling, encasement or other mannersatisfactory to GPIWA. Lines in excess of 48" deep require specific approval and shallbe restrained.

#### TRENCHING AND BACKFILLING

#### GENERAL

- A. In all cases, it is the Developer/Contractor's responsibility to follow Florida's regulations (Sunshine State One-Call of Florida, Inc.) for locating utilities in easements.
- B. Pipe should be laid in an open trench except unless written permission isobtained from the General Manager for tunneling in advance. The trench should be opened sufficiently ahead of pipe-laying to reveal obstructions. Appropriate trench crossings should be used as necessary to accommodate public travel.
- C. <u>WIDTH OF TRENCH</u>: The minimum width of the trench shall be equal to the outside diameter of the pipe at the joint plus 8 inches for unsheeted trench or 12 inches for sheeted trench. The maximum width of trench, measured at the top of the pipe, shall not exceed the outside pipe diameter plus 2 feet, unless otherwise shown on the drawing details or approved by GPIWA. Trench walls shall be maintained vertical from the bottom of the trench to a line measured one foot above the top of the pipe. From one foot above the top of the pipe to the surface the trench walls shall be approximately vertical, or as specified to conform with OSHA Regulations.

- D. <u>SHORING AND BRACING</u>: Shore and brace trenches as required by State Statutes to protect workmen and adjacent structures. Comply with local regulations or, in the absence thereof, with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America, Inc. Do not remove shoring until trench is backfilled sufficiently to protect pipe and prevent injurious caving.
- E. <u>WATER REMOVAL</u>: Keep trenches free from water while construction is in progress. Under no circumstances lay pipe or appurtenances in water. Pump or bail water from bell holes to permit proper jointing of pipes. Conduct the discharge from trench dewatering to drains or natural drainage channels. Contractor is responsible for all applicable state and local regulations regarding offsite discharge of water and turbidity control per Engineer's instructions. If sub-surface water is encountered, the Contractor shall use approved means to dewater the excavation. A well point system or other approved equipment shall be installed if necessary to maintain the excavation in a dry condition for placing of concrete and setting pipelines.
- F. <u>DISPOSITION OF UTILITIES</u>: Rules and Regulations governing the respective utilities shall be observed in executing all work under this heading. Active utilities, if encountered, shall be protected in accordance with written instructionsof the Engineer. Inactive and abandoned utilities encountered in trenching operation shall be removed, plugged or capped. In absence of specific requirements, plug or cap such utility lines at least 3' from utility line to be installed or as required by local regulations.

#### G. GRADING TRENCH BOTTOM:

- 1. As an alternate method, optional with the Contractor, excavate trenches to at least 6" below the required bottom levels and refill to the proper grade with sand or gravel firmly compacted.
- In rock, cemented gravel, old masonry, or other hard material, excavate to at least 6" below the pipe at all points and refill to grade with sand or gravel firmly compacted.
- 3. In fill containing refuse, organic matter or similar substances, remove such material to a depth of at least 6" below the pipe at all points and refill to grade with sand or gravel firmly compacted.
- H. <u>TREE PROTECTION</u>: Exercise care to protect the roots of trees to remain. Within the branch spread of such trees, perform all trenching by hand. Open thetrench only when the utility can be installed immediately; prune injured roots cleanly and backfill as soon as possible. Perform all this work under direction of the Engineer.

- I. <u>BACKFILLING</u>: Backfill trenches only after piping has been inspected by GPIWA and locations of pipelines and appurtenances have been recorded.
  - 1. For a depth of at least 12" above the top of the pipe, with earth or granular material free from large stones, rock fragments, roots and sod; exclude cinder, junk, refuse, scrap iron and unused portions of welded rods from trenches in which metal pipes are to be laid; tamp this backfill thoroughly in layers not exceeding 4" in thickness, taking care not to disturb the pipe or injure the pipe coating.
  - 2. For the remaining trench depth, backfill with material as specified in the preceding sub-paragraph, except the material may contain stones, or rock, but no cinders, with a maximum dimension of 4" provided the voids in such coarse material are completely filled with earth or granular material. Compact to 95% maximum with mechanical tampers in layers not more than 12" thick measured loose.

#### **BACKFLOW PREVENTION: (DWG W-12)**

Greater Pine Island Water Association, Inc. has adopted the regulation of Backflow Prevention and Cross Connection to eliminate actual or potential cross connections between potable and non-potable sources.

A double check backflow preventer should be used on all connections with low health hazard conditions. Double check backflow preventers approved by GPIWA include: Febco, Wilkins, and Conbraco.

A reduce pressure principle backflow preventer will be used for all potable connections subject to back pressure or back-siphonage, where there is a high potential health hazard from contamination. Reduced pressure principle backflow preventers approved by GPIWA include: Febco, Wilkins, and Conbraco.

All test cocks must be plugged to insure proper testing.

#### WATER DISTRIBUTION SYSTEM INSTALLATION

#### CONNECTIONS TO EXISTING MAINS: (DWG W-14)

Contractor shall make all required connections to existing water mains, arranging therefore, with Greater Pine Island Water Association, Inc. to have supervision during the tap. All such connections will be pressure taps and subject to HRS sampling/testingand pressure tested according to AWWA standards.

#### **HANDLING AND STORING MATERIALS:**

Unload cast iron pipes by joists or skidding so as to avoid shock or damage. Handle and store all pipe in such a manner as to avoid deformation or other injury thereto. Store pipe and fittings on sills above storm drainage level and place wood stringers between layers of pipe. Place no pipe within pipe of a larger size. Deliver pipe for laying after the trench is excavated.

#### **IDENTIFICATION:**

When PVC is to be installed, tracer wire (#10 copper, magnetic tape, or equivalent) shall be placed along the entire pipe length. After backfilling, detection tests will be conducted every 1000 feet. In all cases, marking tape shall be installed 24" (61.0 cm) above the water/sewer main during backfill operations per standards outlined in the Utility Location and Coordinating Council's Uniform Color Code. Tape should be tied to provide continuity. Any previously installed tape damaged during excavation should be re-tied and repaired or replaced. Double tape - first on the pipe and second 18" below finish grade.

#### **PIPE LAYING - GENERAL:**

The interior of the pipe shall be clean and joint surfaces brushed and wiped clean and dry when the pipe is lowered into trench. Lower each pipe, fitting and valve into the trench carefully and lay true to line and without objectionable breaks in grade. The depth of cover below finished grade shall be not less than 30" and as much deeper as necessary to give proper clearance from other utilities and structures. Under no circumstances drop or dump pipe or appurtenances into the trench. Give all pipes a uniform bearing on the trench bottom. Allow no trench water or dirt to enter the pipe or joints space during laying. Insert a water-tight plug in the open end of the piping when laying is not in progress. Cut pipe as necessary to locate fittings and valves in the positions shown on the Drawings, cut the pipe squarely and neatly and without damage to the pipe. Set plugs in openings left for branches to be installed later.

- A. <u>Pipe Laying and Jointing</u>: Perform this work in full accord with the pipe manufacturer's published directions or specifications, a copy of which shall be furnished to GPIWA.
- B. <u>Fittings and Branch Connections</u>: Install proper fittings at all changes in direction, dead ends, and intersections of lines.
- C. <u>Setting Valves</u>: Before setting each valve, make sure the interior is clean and test opening and closing. Set valves and stops with stems plumb and at the exact locations shown. Provide a cast iron stop cock holder and a brick laid flat or another similar foot-piece under each curb box. Valve and service boxes shall be plumb, centered over valves, and with tops at finished grade. Tamp trench backfill thoroughly for a distance of 3' on each side of boxes. (DWG W-13)
- D. <u>Blocking</u>: When shown on the plans or when settlement or vibration or water hammer is likely to occur; including all bends, tees, valves, plugs, and hydrants, thrust blocks or approved megalugs or restraining glands shall be provided. No thrust blocks are to be installed between mains. Total restraint required using GPIWA specifications. (DWG C-2 and C-3)
- E. <u>Tests:</u> Provide the necessary material, equipment and labor necessary toperform a hydrostatic test and a leakage test on all water lines.
- 1. Hydrostatic Test: After the pipe has been laid, it shall be subjected to a hydrostatic test pressure of 150 PSI. When local conditions in the opinion of the Engineer are such that the trenches must be backfilled immediately after laying the pipe, the pressure test may be made after backfilling has been completed but before placement of permanent paving. Tests shall not be made for at least 36 hours after thelast concrete thrust block has been poured. Each pressure test shall be maintained forthe duration of two (2) hours unless otherwise directed by the Engineer. During filling of the pipe and before the test, all air shall be expelled from the lines. If necessary, air release valve shall be installed in the points of highest elevation to eliminate the air. After the test, these taps shall be tightly plugged to the satisfaction of the Greater Pine Island Water Association, Inc. During the test all pipe fittings, couplings, joints, valves and hydrants shall be closely examined for leaks and defects. If any are found, they shall be repaired or replaced. The test shall be repeated until satisfactory to the Engineer. Allowable leakage will be as indicated on the "Hydrostatic Test Results" form located in Appendix D.
- F. <u>Flushing Mains</u>: Upon completion of the water distribution system, test all valves to insure their full opening and flush out the system progressively by opening blow offs and building outlets, and before final acceptance of the work, make further tests from blow offs and outlets to ascertain if the lines are clear. All mains or service lines 6" or larger must be scheduled with prior approval from GPIWA. Jumper assemblywill be installed within 24 hours of full-bore flush. (DWG W-9)

- G. <u>Sterilization of Water Distribution System</u>: As soon as the water distribution system has been flushed out as above specified, it shall be sterilized in accordance with the requirements of the Health Department.
- 1. Introduce chlorine or a solution of calcium or sodium hypochlorite, filling the lines slowly and applying the sterilizing agent at a rate of 50 parts per million of chlorine, as determined by residual chlorine tests at the ends of the lines. Open and close all valves and hydrants while the system is being chlorinated.
- 2. After the sterilizing agent has been applied for 24 hours, test for residual chlorine at the ends of the lines. If less than 5 p.p.m. is indicated, repeat thesterilization process.
- 3. When tests show at least 5 p.p.m. of residual chlorine, flush out the system until all traces of the chemical used are removed.

GPIWA reserves the right to test the water again at any time prior to final acceptance of the work and, if found unsafe bacteriologically to require the Contractor to re-chlorinate the system until the water is proven equal to that supplied by the public system.

H. Obstructions: All water pipes, storm drains, force mains, gas or other pipe, telephone or power cables or conduits, curbs, sidewalks, all house services, and all other obstructions, whether or not shown, shall be temporarily removed from, or supported across utility line excavations. Underground sprinkler system piping encountered within the work area and interfering with swale grading or other work requirements, shall be capped-off and removed by the Contractor in such a manner as to not render the system unusable, if possible. Prior to sod placement, affected property owners shall be notified by the Contractor in sufficient time to allow the property owner to repair the system. Existing materials in the work area are to remain the property of the affected property owner(s) and if removed, shall be surrendered to same. Where it is necessary to temporarily interrupt house services, the Contractor shall notify the house owner or occupant, both before the interruption and again immediately before service is resumed. Before disconnecting any pipes or cables, the Contractor shall obtain permission from their owner, or shall make suitable arrangements for their disconnection by their owner. The Contractor shall be responsible for any damage to any such pipes, conduits or cables, and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power, and telephone installations along the route of new pipelines or in the vicinity of new work are shown but must be verified in the field by the Contractor. The Contractor shall uncover these pipes, ducts, cables, etc., carefully, by hand, prior to installing new utility lines. Any discrepancies or differences found shall be brought to the attention of the Owner in order that necessary changes may be made to permit installation of new pipe. These conditions are supplemental to general requirements elsewhere in these specifications. Where fences, walls, or other man-made obstructions exist illegally in the public right-of-way, the Owner shall have them removed upon adequate prior notice by the Contractor.

I. <u>Damage to Existing Structures and Utilities</u>: The Contractor shall be responsible for and make good all damage to pavement, buildings, telephone or other cables, water pipes, sanitary pipes, or other structures which may be encountered, whether or not shown on the Drawings.

Information shown on the Drawings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. This information is not guaranteed, however, and it shall be the Contractor's responsibility to determine the locations, character and depth of any existing utilities. He shall assist the utility companies by every means possible to determine said locations. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from his activities.

- J. <u>Notification Requirement:</u> Contractor to notify GPIWA inspector 24 hours prior to flushing.
- K. <u>Walk-Through</u>: Punchlist and final walk-through will include GPIWA representative, design Engineer and Contractor.
- L. <u>As built</u>: The Contractor shall record during water line installation the location of all valves, couplings, services, tees, etc. and the water line at a maximum spacing of 300 feet.

#### **FINAL INSPECTION:**

At the time of final inspection of the work performed under the contract, the utilities covered by this Division shall be complete in every respect and in perfect operating condition. All surplus materials of every character resulting from the work of this Division shall be removed. Any defects discovered in the utilities subsequent to this inspection shall have been corrected.

#### **APPENDIX A**

#### **DEVELOPER APPLICATION TO CONSTRUCT**

**INSTRUCTIONS**: This form is intended to be official notice to GPIWA that the Developer intends to construct water distribution system appendages that are intended to become part of, dedicated to, and serviced by the Greater Pine Island Water Association, Inc. This form should become the **COVER PAGE** for the initial plan review, also to include:

- Copy of recorded deed covering entire project
- Two (2) sets of initial Development plans.
- A check for the Plan Review Fee (\$115)
- If the project is phased, a copy of the Master Utility Plan

NAME OF PROJECT
OWNER/DEVELOPER
Address
Telephone No.() Fax()_
e-mail address
ENGINEER of RECORD
Company
Address
Telephone No.()Fax()
e-mail address

CONSTRUCTION PROJ	ECT MGR	
Company		
	Fax()	
e-man address		<del></del>
a map of general interest	(please be specific so that the development ):	
Proposed Construction	Schedule: Start: Phase 1	
Start Phase 2	Start: Phase 3	
Start Phase 4	Start Phase 5	
Estimated Date of Comp	letion	
BRIEF PROJECT DESC	RIPTION:	
This system will serve	Single Family Homes	
Multi-family Units	Commercial Units	

STATEMENT BY DEVELOPER	
Island Water Association, Inc. in enoted on this application to obse	o abide by the Rules and Regulations of Greater Pine effect and to retain the services of the project engineer erve and certify construction is in accordance with the d by Greater Pine Island Water Association, Inc.
	Signature of Developer*
	Print Name and Title

Estimated flow/demand for project (MGD)\_\_\_\_\_

#### **GREATER PINE ISLAND WATER ASSOCIATION, INC.**

#### Appendix B

#### PRECONSTRUCTION MEETING CHECKLIST

#### Areas to be Covered:

- 1. FDEP Permit for General Utility Construction in Hand?
- 2. 3-Sets of Final Plans in hand?
- 3. Determine in-progress inspections and locations.
- 4. Identify materials storage location, Available for inspection.
- 5. Water line depth Minimum 36" to maximum 48" cover from finish grade.
- 6. Deflections Deflect all pipe where necessary with 45° bends.
- Mechanical fittings (mega-lug) preferred over thrust blocks. If thrust blocks are used, wrap fittings with plastic, and if necessary, form to keep concrete offflanges and bolts. Must be inspected.
- 8. Water Services Developer Supplied
  - A. Refer to Developer Specifications & Detail W-15 and W-16
- 9. Hot Taps GPIWA personnel must be present. Tapping saddles accepted are Ford FS-303 tapping saddle and flanged by MJ tapping valve. Saddle must be pressure tested to 150 psi against a closed valve.
- 10. Fire Hydrants Must be 5 1/4" valve opening. Accept American. Must be set so there is a minimum of 18" from steamer cap to finish grade.
- 11. Valves All valves must be resilient seat iron body with 2" operation nut. All valves 4" & larger will be set on concrete pad or equivalent. All valves will have a6" riser pipe, if necessary, and valve box which will be set at finish grade and have an 18" x 18" x 4" concrete collar.
- 12. Metal tape shall be run the length of PVC water mains with spot tape at main line service taps.
- 13. Pressure Tests Line will be tested at 150 psi for a 2-hour period. Request presence of engineer representation.

- 14. Billing of water for construction use will be at the Association's commercial rate for meter size.
- 15. Bacteria testing for final line certification to be done by Lee County Health Dept. Contractor to schedule.
- 16. Contractor is to notify GPIWA inspector 24 hours prior to flushing.
- 17. Punch List Send punch list AFTER grades are set for proper valve pad elevation, hydrant elevation, services to be located & staked; all sampling points to be removed. Copy to Engineer & Contractor.
- 18. Final as-builts to include GPS locations for all mainline valves, to be submitted with project dedication. Hard copy and disk compatible with GPIWA CADD system.

#### **GREATER PINE ISLAND WATER ASSOCATION, INC.**

#### Appendix C

#### FIRE HYDRANT SPECIFICATIONS

- 1. All fire hydrants shall comply with AWWA STANDARDS C502, the latest revision thereof and following design standards.
- 2. Fire hydrants shall be of the compression type, closing with the line pressure.
- 3. Depth of bury shall be of the same as that specified for the pipe.
- 4. Hydrants shall be furnished with a sealed oil reservoir located in the bonnet, so that all threaded and bearing surfaces are automatically lubricated.
- 5. All hydrants shall have internal cast flanges.
- 6. The lower stem shall be located below top of lower barrel. The upper barrel will be fluted and ribbed above the safety flange.
- 7. The seat ring shall be bronze and thread into bronze bushing located between lower barrel and shoe.
- 8. The lower barrel shall be designed so the barrel can be removed from hydrant shown under pressure.
- 9. All hydrants will be cast marked or outside design shall be such that visible identification can be made as to type and design.
- 10. Hose and pumper nozzles shall be threaded with "O" ring seals and retained by stainless steel screws.
- 11. Valve seat removal wrench shall be a short pattern design and fitting all barrels.
- 12. Hydrants shall comply with head flow/loss table.
- 13. Maximum pressure loss allowable 2-2 1/2" lose and 1-4 1/2" pumper. 500 GPM (2 hose) 250 GPM (1 hose)

1000 GPM (1 pumper) 3.7 PSI

.5 PSI

1.1 PSI

14. Flow based on 5' bury with 6" diameter inlet.

15. Certification of these standards must be available.

- 16. American B-84 Zirk fitting stainless steel and Dresser M and H style or approved equal by Matlacha-Pine Island Fire Control District as authority having jurisdiction.
- 17. Approved hydrants shall have 5 1/4" main valves.
- 18. Hydrants are to be covered from the time of installation until the jumper assembly is removed and hydrant can be placed into service. No hydrant will be turned on until bacteriological tests are satisfied.

#### **Greater Pine Island Water Association, Inc.**

#### Appendix D

# PROCEDURE FOR DEDICATION OF WATER LINES APPROVAL FOR WATER SERVICE

PROJECT ENGINEER: Submittal Package

- 1. Cover letter
  - a. Requesting approval for service
  - b. Listing all items submitted
- 2. FDEP Application to Approve for Service (Copy)
- 3. FDEP letter certifying construction completion Permission to place water facilities in service.
- 4. Bill of Sale (Appendix E)
- 5. Affidavit of No Liens (Appendix G)
- 6. One (1) year warranty from Developer (Appendix F)
- 7. Material/cost breakdown from Contractor
- 8. Certification by Engineer of pipe quantities installed.
- 9. Engineer's certification of pressure test
- 10. Copies of bacteriological analysis
- 11. Easements (Appendix H)
  - a. Recordable Easements
  - b. Certification by Engineer that all improvements being dedicated are located within: (1) Dedicated County Right-of-way or (2) within recorded utility easements on plat. (NOTE: copy of plat to be submitted.)
  - c. Strap Numbers required for recording in Lee County.
- 12. Two (2) sets of as-built drawings signed and sealed by Engineer. Multi-phased projects should include an updated Master Utility Plan incorporating the added infrastructure. As-Builts to include GPS locations for mainline isolation valves and fire hydrants.
- 13. One (1) electronic disk of CADD drawing of as-builts.

## **GREATER PINE ISLAND WATER ASSOCIATION, INC.**

## **Appendix E**

## **BILL OF SALE**

KNOW ALL MEN BY THESE PRESEN	
business in the State of Florida, of the first parter Dollars, in lawful money (and other good Greater Pine Island Water Association, Inc., of Florida, of the second part, the receipt of which granted, bargained, sold, transferred, set over does grant, bargain, sell, transfer, set over and its successors and assigns, all those certain granted.	and valuable considerations) to it paid by of the County of Lee, and the State of the share acknowledged by it, has and delivered, and by these presents dideliver unto the party of the second part,
the attached Exhibit A (legal description relating to the components which are a	ents") on said real property described on n) along with all contractual guarantees ttached hereto as composite Exhibit B first part hereby guarantees to party of orkmanship and materials in the
TO HAVE AND TO HOLD the same ur successors and assigns forever.	nto the party of the second part, its
And the party of the first part, for itself a and with the party of the second part, its succession owner of the said goods and chattels; and is in right to sell the same as aforesaid, and that it the lawful claims and demands of all persons	n full possession of same; that it has good will warrant and defend the same against
IN WITNESS WHEREOF, the party of the first hereunto subscribed and its corporate seal to authorized, this theday of	be affixed by its officer hereunto duly
(Signature)	(Print or type name and title)

**CORPORATE SEAL** 

Bill of Sale Appendix E Page 2

Signed, sealed and delivered in our presence WITNESSES:	:
(Signature)	(Print or type name of witness)
(Signature)	(Print or type name of witness)
STATE OF FLORIDA COUNTY OF LEE	
The foregoing instrument was acknowledged	
By of	(date)
(name & title of officer or agent)	(Name of corporation)
on behalf of the corporation. He/she is person	nally known to me or has produced
as identificatio (Type of identification)	n and did (did not) take an oath.
SEAL	(Notary Public)

## **GREATER PINE ISLAND WATER ASSOCIATION, INC.**

## Appendix F

## **WARRANTY/GUARANTY**

The undersigned, and/or guarantee to Greater Pine Island Warmeters, valves, and appurtenances installed i legal description to be free from defects of mayear from the date of acceptance by Greate undersigned further agrees that it will, at its own or installations which violate the covenants he	n certain property described on the attached aterials and workmanship for a period of one er Pine Island Water Association, Inc. The wn expense, repair and replace all materials
(Signature)	(Print or typed name, title)
(Company)	-
STATE OF FLORIDA COUNTY OF	
The foregoing instrument was acknowledged	before me this
bv	(Date)of (Name of corporation)
by(Name & title of officer or agent)	(Name of corporation)
on behalf of the corporation.	
He/she is personally known to me or has prod	duced (Type of identification)
as identification and did (did not) take an oath	
(Not	ary Public)
,	,

SEAL

## **GREATER PINE ISLAND WATER ASSOCIATION, INC.**

## Appendix G

## **OWNER'S AFFIDAVIT OF NO LIENS**

On this	day of	, 20	,
	<u> </u>	,	(Name of person)
		, of	
(Title)		(Comp	(Name of person)
and all sub plans and s utilities facil	ocontractors, specifications lities on real e	who have furnisl , or extra items, estate hereinafter	I corporations, including the general contractor hed services, labor, or materials according to used in the construction or repair of the water described, have been paid in full and that such ted by the Owner.
pending on that no ch	behalf of, an attel mortgag	ly contractor, sub ges or conditiona	een made to the Owner by, nor is any suit now contractor, laborer or materialman, and further al bills of sale have been given or are now ities placed upon or installed in the aforesaid
encumbere	d by, or sub	ject to any real <sub>l</sub>	ilities described herein are not included in, property mortgage, chattel mortgage, security nancing statement, or any other encumbrance.
consideration Association contractor,	on hereby a n, Inc. harmles mechanic or	agree and guar ss against any lie materialman, and	of the subject utility facilities, does for valuable antee, to hold Greater Pine Island Water on, claim or suit by any general contractor, subdiagainst chattel mortgages, security interest or not is used as singular or plural, as the context
The utility fa		ed to herein are l	ocated within the real property described in the
(Signatur	e)		(Printed name and title)

Page 2 Signed, sealed and delivered in the presence of: WITNESSES: Print name: \_\_\_\_\_ Print name: STATE OF FLORIDA COUNTY OF \_\_\_\_\_ The foregoing instrument was acknowledged before me this \_\_\_\_ (Date) (Name of Corporation) \_\_\_\_of\_\_\_ (Name & title of officer or agent) on behalf of the corporation. He/she is personally known to me or has produced \_\_\_\_\_ (Type of identification) as identification and did (did not) take an oath. (Notary Public)

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SEAL

Affidavit of Liens Appendix G

## **GREATER PINE ISLAND WATER ASSOCIATION, INC.**

## **Appendix H**

## **GRANT OF UTILITY EASEMENT**

It is hereby agreed that
See Exhibit A (legal description including strap number) and Exhibit B (sketch to accompany legal description) attached hereto and made a part hereof, for the purposes of construction, operation maintenance, improving or replacing of one or more water, sewer and/or other utility transmission or distribution lines, and all normal appurtenances thereto, including the necessary rights of ingress and egress shall be exercised in a reasonable manner in accordance with the standard practices in the industry, together with the right and privilege to inspect, alter, remove, or relocate such lines, facilities and appurtenances thereto within the easement herein granted, with all rights and privileges necessary or convenient for the full use and enjoyment thereof for the above stated purposes.
The Grantor, however, reserves the right and privilege to use the above-described lands for any and all other purposes except as would interfere with the Grantee's use, occupation, or enjoymen thereof.
Grantee, to the extent responsibly possible, is required to restore the surface of the land to the same condition as it existed at the time of the grant of this Easement.
Grantee shall not unreasonably interfere at any time with the rights of Grantor, its successors and assigns, or any other party requiring access to any of the property over which saideasement is granted.
The cost of construction, operation, maintenance, repair, improvement and/or replacement of the above-described facilities shall be borne by Grantee, its successors, and assigns.
Executed thisday of20

(Printed or typed name and title)

(Signature)

Grant of Utility Easement Appendix H Page 2

Signed, sealed and delivered in the presence of:	
WITNESSES:	
Typed name:	
Typed name:	
STATE OF FLORIDA COUNTY OF	
The foregoing instrument was acknowledged	before me this(Date)
by(Name & title of officer or agent)	ofof(Name of Corporation)
on behalf of the corporation.	
He/she is personally known to me or has produce as identification and did (did not) take an oath	(Type of identification)
(Not	ary Public)

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SEAL

## **GREATER PINE ISLAND WATER ASSOCATION, INC.**

## Appendix I

## **HYDROSTATIC TEST RESULTS FOR WATER MAIN**

Project name		Date		
Client				
Test By	py			
Contractor		Foreman_		
Road/Street		Station	to Station	
Length of Pipe Tested (Ft), S	Nominal Pipe Diameter (In), D	Square Root of Test Pressure, P	*Allowable Leakage, L in gallons/hour L = <u>S x D P</u> 133,200	
		*As per AWW	A C600-82	
Test Began at		Pressure on Ga	auge	
First Hour Gallon L	Jsed	Pressure on Ga	uge	
Second Hour Gallo	n Used	Pressure on Gau	uge	
24 Hour Total Gallo	on Used	Pressure on Gau	ge	
	Results: Passed	Failed	J	
Remarks:				
				<u> </u>

Inspector's Signature\_\_\_\_\_

#### **ADDENDUM A**

#### **LINE EXTENSIONS 3" AND BELOW**

**GPIWA Reserves the First Right of Refusal** for any project that is adding a line extension to its infrastructure. There are two options to construct 3" and below water line extensions.

- A. GPIWA doing the construction.
- B. Member hiring an outside Underground Utility Contractor approved by GPIWA.

#### **GPIWA** doing the Construction

- 1. GPIWA will verify location and availability for water (one week for decision)
- 2. Fill out an "Member Application to Construct" *Addendum B* form in the Developers Handbook.
- 3. GPIWA will provide an engineered drawing of the scope needed for installation
- 4. GPIWA will provide a cost estimate

#### Member hiring an approved Underground Contractor

- 1. GPIWA will verify location and availability for water (one week for decision)
- 2. Contractors fill out an "Member Application to Construct" (*Addendum C*) form in the Developers Handbook
- 3. GPIWA will provide an engineered drawing of the scope needed for installation
- 4. GPIWA will inspect all pipe and fittings in ground during installation
- 5. GPIWA will observe Hydrostatic pressure test
- 6. Contractor and Member will need to have (Addendum D completed)

#### **ADDENDUM B**

## **Member Application to Construct**

**INSTRUCTIONS**: This form is intended to be official notice to GPIWA that the member intends to have GPIWA construct water distribution system appendages that are intended to become part of, dedicated to, and serviced by the Greater Pine Island Water Association, Inc.

- Copy of recorded deed
- Copy of site Plans for line extension purposes
- Boundary Survey
- Building Permit if applicable
- Appendix H for all easements if needed
- Water User's Agreement signed by Member after Meter install

Member	_
Address	_
	_
Telephone No.()Fax ()	
e-mail address	
Location (please be specific so that the development can be located on a mainterest):	p of general
Strap No	

## **Statement by Member:**

The undersigned herein agrees to abide by the Rules and Regulations of Greater Pine IslandWater Association, Inc. in accordance with the plans and specifications approved by GreaterPine Island Water Association, Inc.

Signature of Member		
Print Name and Date		

# Addendum C Member Application to Construct

Instructions: This form is intended to be official notice to GPIWA that the Member intends to have an approved Underground Contractor by GPIWA to construct water distribution system appendages that are intended to become part of, dedicated to, and serviced by The Greater Pine Island Water Association.

- Copy of recorded Deed
- Copy of site plans for the line extension
- Boundary Survey
- Building Permit if applicable
- Water User's Agreement signed by Member after Meter install

Member
Address
Telephone Number ()
FAX ()
E-Mail Address
Underground Contractor
Company
Address
Telephone Number ()
FAX ()
F-Mail Address

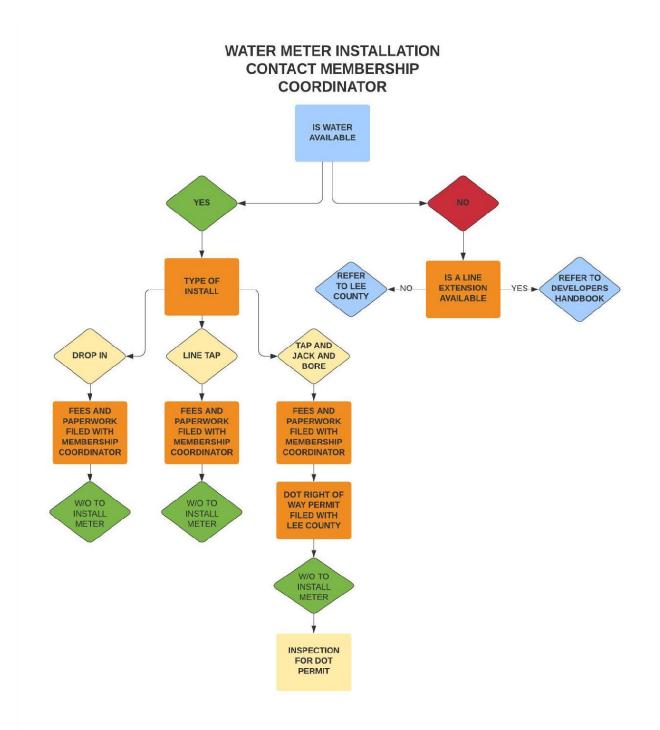
Line Extension location (Please be specific so that the location can be located on a map of general interest)
Strap Number
Estimated Date of Completion
Statement by Contractor
The undersigned herein agrees to abide by the Rules and Regulations of Greater Pine Island Water Association, Inc. In accordance with the plans and specifications approved by Greater Pine Island Water Association, Inc.
Signature of Contractor
Print Name and Date

#### **Greater Pine Island Water Association, Inc.**

# Addendum D Procedure for Dedication of Water Lines Approval for Water Service

Customer: Submittal Package

- 1. Bill of Sale (Appendix E)
- 2. One (1) year Warranty from Contractor (Appendix F)
- 3. Owner's Affidavit of No Liens (Appendix G)
- 4. (Appendix H) for all easements if needed
- 5. Hydrostatic pressure test (Appendix I)



## LINE EXTENSION PROCESS CONTACT MEMBERSHIP COORDINATOR

