Section 15

Procedures for Submittal, Permitting, Construction and Acceptance of Private Development Projects

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15.01 Submittal

A. The applicant shall submit the following items for a project to be considered for a utility construction permit:

1. Completed Utility Construction Permit application, copy of Department of Environmental Protection (FDEP) permit applications (if applicable), copy of Department of Transportation (FDOT) permit application (if applicable), Indian River County Right-of-Way permit, legal description, and proof of payment of all applicable fees.

2. Three sets of 24 inch x 36 inch construction plans, signed and sealed by a Professional Engineer registered in the State of Florida, shall be submitted with application. Plans shall include a plan view of the water, wastewater, and/or reclaimed systems with all elevations and inverts, sewer profiles (gravity and force mains), all appropriate details, the location of all existing and/or proposed drainage facilities including catch basins, manholes, pipes, and top elevations and pipe inverts for same, and water line profiles where the water main crosses other utilities. All IRCDUS utility lines shall be stationed on the plans. All existing and proposed rights-of-ways, easements, and property lines shall be shown. Also, an accurate location map is to be provided. The limits of proposed dedication of the system(s) to IRCDUS shall be specified on the plans.

3. A complete engineer's design report, signed and sealed by a Professional Engineer registered in the State of Florida, setting forth the basis of design, shall contain the following, as a minimum:

   a. Water distribution system:
      (1) Description of geographic area to be served.
      (2) Existing and predicted population of areas to be served.
      (3) The effect of the proposed water distribution system on existing or proposed water distribution facilities.
      (4) The estimated daily flow.
      (5) Fire flow calculations for all hydrants being fed by lines smaller than 8 inch, or as required by IRCDUS.
      (6) Description of materials to be used.
      (7) A preliminary cost estimate.
      (8) An estimated completion date.
      (9) Any other factors which would affect design and use of the water distribution system.

b. Gravity sewer system:
   (1) Description of geographic area to be served.
   (2) Existing and predicted population of areas to be served.
   (3) The effect of the proposed gravity sewer collection system on existing and proposed gravity sewer collection systems or pumping stations and force mains. Pump stations shall be modeled, and all in-line pumping stations and force mains receiving these additional flows shall be considered.

c. The effect of the proposed gravity sewer collection system on the wastewater treatment plant receiving the flows.
   (1) The estimated daily flow.
   (2) Description of materials to be used.
   (3) A preliminary cost estimate.
   (4) Any other factors which would affect design and use of the sewer system.

d. Pumping station and force main system:
   (1) Description of geographical area to be served.
   (2) Existing and predicted population of area to be served.
   (3) Calculations for projected flows, wet well sizing, pump sizing and selection, force main sizing, and buoyancy of wet well.
   (4) The effect of the proposed pumping station and force main system on existing or proposed pumping station and force main systems or gravity sewer systems receiving these additional flows. Pump stations shall be hydraulically modeled, along with all in-line pumping stations and force mains.
   (5) The effects of the proposed pumping station and force main systems on the wastewater treatment plant receiving these flows.
   (6) Description of materials to be used.
   (7) A preliminary cost estimate.
   (8) The estimated completion date
   (9) Any other factor which would affect design and use of the pumping station and force main system.

4. A review fee, as set forth in the current rate schedule.

5. One original signed and sealed Department of Environmental Protection permit application for IRCDUS records.

15.02 Construction Permit

A. Prior to permit issuance and scheduling of a pre-construction meeting, three sets of construction plans and specifications shall be submitted, signed and sealed by a Professional Engineer registered in the State of Florida, to be approved, stamped, and signed by IRCDUS. One set shall be retained for

IRCDUS records, one set shall be delivered to the IRCDUS inspector, and one set shall be returned to the Engineer of Record.

B. Utility Construction Permits expire one year from the date of issuance and may be granted an extension for one year thereafter for a fee of $150. Only one extension will be granted. After the extension has expired, the Utility Construction Permit process will start over. IRCDUS reserves the right to request changes or modifications to utility designs that have been previously approved.

C. Payment of fees shall not constitute automatic approval of original plans.

D. The Utility Construction Permit does not constitute a permit for operation.

E. Construction shall not begin until the IRCDUS Utility Construction Permit is approved, and a copy of the Indian River County Right-of-Way Permit, Florida Department of Environmental Protection Permit, and any other required permits are submitted to IRCDUS.

15.03 Construction

A. Any contractor or sub-contractor constructing public underground water, sewer, and reclaimed utilities must be a licensed Underground Utility Contractor or licensed General Contractor in the State of Florida and Indian River County. A sub-contractor shall not qualify for an IRCDUS construction contract under the license of another General Contractor or Underground Utility Contractor. Any contractor or sub-contractor must qualify on their own merits.

B. IRCDUS reserves the right to request references and a list of projects performed in the last three years that are similar in nature to the project in which the contractor is proposing to construct.

C. The Engineer of Record shall have a pre-construction meeting with IRCDUS a minimum of five working days before beginning construction, whereupon construction plans shall be reviewed, and a minimum of three sets of shop drawings shall be provided. One set is to be provided to Indian River County Utilities Department, one set to the IRCDUS inspector and the remaining set to the Engineer of Record. No appurtenances shall be installed until approved by IRCDUS.

D. The Contractor and Engineer of Record shall notify IRCDUS a minimum of 48 hours prior to beginning construction or performing any system tests.

E. The water distribution system shall be constructed, flushed, disinfected, and tested in accordance with FDEP and IRCDUS Specifications.

F. All fire hydrant assemblies shall be bagged and tagged as “Out of Service” until final acceptance.

G. All equipment, materials, and workmanship shall meet or exceed all current Indian River County Water, Wastewater and Reclaimed Water Utility

Construction Standards and shall be subject to the unconditional inspection and approval by IRCDUS.

H. The Engineer of Record shall have an on-site inspector who shall witness and document all materials used, installation procedures, problems encountered, and witness and certify all tests specified by the operation permit checklists. Daily construction reports shall be submitted monthly to IRCDUS, and no later than seven days after completion of the construction. Indian River County has unconditional rights to inspect the construction and materials at any time.

I. Where water outages will occur, a minimum of five (5) working days notice to IRCDUS and the public is required. The IRCDUS water plant operator shall be notified a minimum of five (5) working days prior to flushing of lines. Five (5) working days' notice is required for access to private property.

J. The Property Owner, Developer, Engineer of Record, and Contractor shall hold Indian River County harmless in any suits, claims, and/or liabilities arising from subject construction.

K. All connections to the IRCDUS water system shall be made in the presence of IRCDUS. For the purpose of flushing, testing, and putting the system on line, IRCDUS shall operate all valves on the IRCDUS systems.

15.04 Acceptance

A. No system shall be cleared for use by IRCDUS until all requirements of the operation permit checklist have been satisfied and approved by IRCDUS. See Part IV of these Standards for the requirements for IRCDUS Utility Construction Check Lists for Potable Water Distribution System and Wastewater Collection/Distribution System.

B. When a constructed potable water system or sewer system lies dormant for a period of more than six months, regardless of having received FDEP clearance or not, the system will be subjected to rigorous inspection, testing and cleaning, by methods to be determined by IRCDUS and in accordance with AWWA Standards C-651-99 or latest revision. Pressure testing, flushing and chlorination will be required. No potable water main shall be placed into service until bacteriological sampling and analysis have been made. Any constructed gravity sanitary sewer main and/or sewer lift station will be subject to the same methods as stated above, including but not limited to cleaning, television inspection, infiltration/exfiltration, or other methods to be determined by IRCDUS. Any deficiencies in construction shall be corrected immediately upon discovery and shall meet current IRCDUS Water and Wastewater Standards.

END OF SECTION