



Bartow County Water Department
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BARTOW COUNTY WATER & SEWER SYSTEM **WATER SERVICE MAIN INSTALLATION SPECIFICATIONS**

For the purpose of installing water service mains within the Bartow County Water System or any private Developers that connect to existing Bartow County Water System water service mains, the following Water Service Installation Specifications shall be followed:

- 1- Under no circumstances shall anyone be permitted to either connect or tamper with any Bartow County Water System water service main or other utility system component without prior approval from the Bartow County Water Department. Violators of this regulation are subject to a minimum \$500.00 Tampering Fee and potential litigation as determined by the Water Department Superintendent.
- 2- All Contractors must possess a valid Georgia Utilities Contractor License and shall be formally approved by the Bartow County Water Department prior to performing any installation and/or connection procedures associated with the Bartow County Water System.
- 3- All water service mains shall either meet or exceed Bartow County Water Department Specifications; no less than PR 350 Ductile Iron Piping (DIP) or as specified for special conditions such as ditch crossings, cross drains, stream crossings, etc. which shall be addressed on a per-development basis. (Note: The Bartow County Water Department will instruct contractors as to any special provisions regarding these conditions.) If a water service main has been proposed to cross private properties and/or roadways, the person(s) contracting the project shall obtain a 20-foot Utility Easement and provide a recorded copy of said Utility Easement to the Bartow County Water Department prior to final acceptance.
- 4- Transitions from DIP to PVC piping must be made with solid sleeves only! (Note: Tees, bends, valves and other water system components must possess at least five (5) feet of DIP in every direction before transitions to PVC piping are made.)
- 5- All service mains crossing existing roads shall be bored and cased per required specifications. (Note: On newly constructed roads, ductile iron piping may be buried directly without casing based upon final approval from the Bartow County Water Department.)
- 6- All water service mains shall be buried with no less than 42" of cover. All excavation work performed to install water service mains shall be compacted to 95% by the contractor whether the service main has been installed within the road right-of-way or upon private property. If service piping will be installed within rock, then said rock must be excavated at least 6" below the bottom of the pipe and a minimum bed of 6" of clean dirt (or sand) shall be constructed and compacted per required specifications prior to pipe installation. Once approved bedding has been established and service piping has been laid, then a 12" layer of clean dirt (or sand) shall be installed on top of piping prior to filling trench to final grade.
- 7- All water service mains, regardless of their size, branching off the main service trunk line shall be valved and properly installed within cast iron valve boxes. (Note: Water valves are never to be placed in the paved areas of roadways!!) All water valves shall be Mueller® gate valves (or an approved equal) with a resilient seat supplied with a cast iron valve box. Water valves are also required to have pre-cast concrete pads constructed around them with a minimum 6" thickness. (Note: Bronze or brass hand-wheel gate valves will not be permitted!). Water valves locations shall be properly indicated with a "W" either sawed or stamped on curbs.

- 8- All water service taps crossing streets shall be installed either in a conduit or casing large enough to enable proper replacement of water service mains. All long-side water service taps shall be properly indicated on curbs.
- 9- If the Contractor installs water service taps, the fittings used shall be the type specified by the Bartow County Water Department:
 1. Service saddles for 8” diameter piping or smaller shall be Dresser #194 while service saddles larger than 8” diameter piping shall be #291 Double Strap.
 2. Corporation stops shall be manufactured by either Mueller® or Ford®.
 3. Service tubing shall be Type-K Soft Copper.
 4. Adapters on the inlet end of meter setters shall be Mueller® or Ford® 45°.
 5. Meter setters shall be either Mueller® B 2434R-2 or Ford® VBHH72-7W-MM-33 with a 7” riser and installed 10” below the top of meter boxes with a 12” long PVC pipe brace.
 6. Meter boxes shall consist of a plastic body with solid cast iron lids, set flush with the ground, centered over meter setters and must be placed completely clear of ditches! *(Note: Additional right-of-ways may have to be acquired.)*
 7. Outlet sides of meter setters shall consist of minimum 12” nipple Schedule 80 male threads.
- 10- All commercial and industrial developments shall have a minimum of 8” water service mains installed. Fire hydrant spacing shall not exceed 500 feet. Minimum pipe specifications shall be Class 50 Ductile Iron Pipe (DIP) with Type-K Soft Copper for service lines up to 2” diameter. All services lines larger than 2” diameter shall be ductile iron piping consisting of mechanical joint and flanged fittings.
- 11- Fire hydrants shall be installed upon no smaller than 6” diameter water mains and placed across ditches, providing unobstructed access for road maintenance crews. Fire hydrant spacing shall not exceed 1,000 feet and must be installed within 500 feet from the furthest property located within a low-density residential development. *(Note: Spacing for commercial, industrial and high-density residential developments shall not exceed 500 feet.)* Fire hydrants located within subdivisions must be installed upon property lot lines. A fire hydrant must also be installed at the end of each water service main.
- 12- Fire hydrants shall be valved between tees and hydrants with tie rods installed between the tee and valve as well as the valve and hydrant within cast iron valve boxes. *(Note: Anchor couplings may be used instead of tie rods.)* Fire hydrant valves must be installed either on the road should or adjacent to fire hydrants clear of ditches. *(Note: Additional right-of-way may have to be acquired.)*
- 13- The Contractor shall furnish and install plugs or caps at the end of each water service main with a concrete thrust blocking to prevent potential “blow-offs”.
- 14- All water service mains shall be pressure tested by Contractors at either 50 p.s.i. above static pressure or no less than 200 p.s.i. and maintain said pressure for a minimum period of two (2) hours. Subsequent to testing procedures and prior to the removal of all testing equipment, water service mains shall be thoroughly inspected by the Bartow County Water Department to verify compliance with pressure testing specifications. Water service mains shall also be subject to leakage and bacteriological testing as indicated per Bartow County Water System Specifications.
- 15- The Developer shall be solely responsible for all water and/or sewer system repairs within the project for a period of one (1) year from the date of final approval. Should a leak or blowout occur during the required one-year warranty period, the Developer will be responsible for all necessary repairs, estimated water loss, retesting of the utility system and reimbursement of any associated expenses incurred by the Bartow County Water Department.