



---

360 Main St. • Delta, Colorado 81416 • Phone (970) 874-7566 • Fax (970) 874-8776

---

## CONTRACTOR INFORMATION FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS

### **Introduction:**

This document is to serve as a guideline for contractors doing work in the City of Delta. This document does not replace the requirements in the City of Delta Standards and Specifications for the Design and Construction of Public Improvements, Subdivision Regulations or any other requirements outlined by the city. In the event of conflicting information, the information in this document is superseded by the governing documents. The contractor shall have a copy of the standards and specifications, approved construction drawings, and change orders/design changes on site at all times. *The contractor will also be required to obtain a right-of-way excavation permit for all work that will occur in the city right-of-way.*

### **Waterline Installation:**

- Contractor installs waterline and appurtenances according to city specifications and the approved drawing requirements
- Contractor shall use chlorine tablets, as specified in the specifications, unless otherwise approved by the Utility Director.
- Contractor notifies the city after completion of waterline installation to schedule service installation and testing.
- Any appurtenances (new or old) damaged during construction will be replaced at the expense of the Developer/Contractor

#### Service Installation

- Contractor will dig the trench for all services from the water main to the meter pit location. Trench to be dug perpendicular to water main.
- Contractor will provide top back of walk elevation adjacent to each meter pit so that meter pit is set at correct elevation (the depth of the trench at the meter pit location shall be 49" deep to allow for the meter pit and cover) Any reset due to improperly marked elevations or locations shall be charged to the Contractor/Developer on a time and materials basis.
- At locations where more than one service is to be installed in a single trench, adequate space needs to be provided so that the saddles can be installed with a minimum of 24" separation. Adequate trench width also needs to be provided to allow for a minimum of 12" separation from pipe bells.
- The City will bring a 2' stub of 1" PVC out of the resetter for the homeowner to tie into unless the Contractor/Developer prefers to run copper to the home, in which case the Contractor/Developer/Builder will be responsible making the tie-in to the resetter.
- Contractor backfills trench according to city specifications

#### Testing

- Contractor will provide a minimum of 48 hours notice that the waterline is ready for testing. No testing will be conducted until backfilling is complete.
  1. Filling: City will fill line and allow the water to sit in the line for a minimum of 24 hours for disinfection after all thrust blocks have been allowed to cure for a minimum of 48 hours.
  2. Pressure Test: City will pressure waterline to a minimum of 150 psi
  3. Flushing: City will flush waterline after a satisfactory pressure test
  4. Bac-T Testing: City will collect a Bac-T sample to confirm adequate disinfection

### **Sewerline Installation:**

- Contractor installs sewerline, sewer services and appurtenances according to city specifications and the approved drawing requirements
- Manholes shall be installed with rubberneck and each horizontal seam shall be grouted. All pipe connections to manhole shall be grouted.
- Contractor notifies city after completion of sewerline installation to schedule testing
- Any appurtenances (new or old) damaged during construction will be replaced at the expense of the Developer/Contractor

### Testing

- Contractor to provide a minimum of 48 hours notice that sewerline is ready for testing. No testing will be conducted until backfilling is complete.
  1. Air Test: Contractor to provide equipment for testing. Test will be observed by a city representative. Testing will be conducted in accordance with the requirements specified in the standards and specifications.
  2. Camera Test: Test will be performed by the city. Contractor will ensure accessibility to all manholes.
  3. Lamp Test: Test will be performed by the city. Contractor will ensure accessibility to all manholes.

### Trench Excavation and Backfilling:

- Contractor shall follow all applicable laws and requirements with regards to trench safety. If an inspection is required inside an open trench, contractor will provide appropriate safety measures before a city representative enters the trench.
- Contractor will backfill all trenches in accordance with the requirements in the standards and specifications. In general, material shall be compacted in 6" compacted lifts.
- Contractor shall provide nuclear gauge testing at least once every 100 linear feet and shall begin at a depth of 18 inches above the pipe and in 12 inch vertical increments to finish grade. Once a method of compaction is established, the requirements **MAY** be less restrictive with approval of the City.
- Any appurtenances (new or old) damaged during construction will be replaced at the expense of the Developer/Contractor

### Road Preparation

- Contractor to prepare road area according to city specifications and requirements in approved set of construction drawings.
- After the contractor has brought the road footprint to subgrade elevations a proof roll will be required. Contractor will provide a loaded truck and driver to perform the test. A city representative will be observe the test and delineate areas that fail. Proof roll will be performed at each flowline and along the centerline of each footprint.
- Road base and asphalt will be tested according to the requirements in the city specifications.
- After the subdivision is completed, the City will install the required signage for the subdivision and charge the Developer on a time and materials basis.
- Any appurtenances (new or old) damaged during construction will be replaced at the expense of the Developer/Contractor

### Electrical System Installation:

*(This section only applies to City of Delta Service Areas, Contact DMEA for requirements in their service area)*

- The Contractor/Developer is to provide all trenching, backfill-compaction and will establish final grade. The bottom of trenches are to be smooth and free of caved off material before City crews are informed that they are open. An electric marking tape, provided by the City, shall be installed by the contractor before the last lift of cover is applied but not more than one foot below finished grade. All trenches are to be 20 inches wide, minimum. Trenches for primary voltage circuits will be four feet deep. Trenches for 600 and lower voltage circuits will be three feet deep.
- The City will provide and install all conduit, transformers, and junction cabinets-boxes. The City will provide and install primary voltage conductor and residential secondary conductor. For most commercial electric services the Contractor/Developer will provide secondary conduit and conductor. Most transformers for commercial services are to be installed on a concrete pad. Said pad is to be build by the Contractor/Developer according to specifications supplied by the City of Delta. All conduits to and from the transformer pad, rather needed by the City or the Developer, will be installed to specification (City or NEC, respectively) before the concrete pad is poured. Check with the Municipal Light and Power Electric Department Superintendent to obtain transformer pad specifications.
- Telephone and cable television conductor may be installed in the same trench as the electric service but must be one foot or more above electric conduits. Water, sewer and gas lines must be trenched separately.
- The City will not install any above ground electrical structures (transformers, cabinets, etc.) until the Contractor affirms that final grade is in place.
- Any conduit, conductor or electrical equipment (transformers, cabinets, poles etc.), damaged during backfilling or establishing-finishing final grade will be repaired and charged to the Contractor/Developer on a time and material basis. Any trench opening and backfill needed to expedite these repairs is to be provided by the Contractor. The Contractor/Developer is responsible for seeing that the placement of ground level pits, above ground boxes, poles, etc owned by other utilities such as Water, Sewer, Telephone, Cable TV and Delta Montrose Electric Association are positioned so as not to interfere with the installation, operation and maintenance of the electrical system and will be charged on a time and material basis for any moves of said equipment required by the City.

### City Contact Information (City Website: [www.cityofdelta.net](http://www.cityofdelta.net))

- City Hall – 970-874-7566 (This number is used to contact all people listed below.)
- Director of Utilities/Public Works
- Streets Supervisor
- Utilities Supervisor
- Electric Department Superintendent