

SECTION 01000 - GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1.1 **Scope:** This Section describes General Requirements applicable construction of any utility infrastructure to be dedicated to the City of Emerson within rights-of-way, easements, or other property owned or to be owned by the City of Emerson. The requirements of this Section are supplemental to and made a part of the City of Emerson Development Regulations.
- 1.2 **Administrative Procedures:**
- A. **Pre-Construction Meeting:** Schedule a Pre-Construction meeting with the City Manager or his/her representative and other City and regulatory agency representatives prior to start of any construction. Contractor's superintendent shall attend the meeting. The date and time of the meeting shall be as scheduled by the City Manager. Such Pre-Construction meeting shall not relieve the Contractor from cooperating should the City or other regulatory agencies desire additional meetings or visits.
 - B. **Construction Schedules:** Submit a proposed Construction Schedule to the City at the Pre-Construction Meeting.
 - C. **Construction Sequence:** Perform Work in a sequence to be agreed to at the Pre-Construction Meeting, unless otherwise directed.
 - D. **Construction by Others:** Coordinate with related construction projects of the City of Emerson or by others, if any.
 - E. **City of Cartersville Sewer System Regulations:** The design, construction, testing and approval of sanitary sewerage facilities intended to convey sewage to the City of Cartersville sewer system, shall comply with current ordinances and regulations of the City of Cartersville, or City of Emerson Standard Specifications, whichever are more stringent, as determined by Emerson.
 - F. **Insurance Requirements:** Provide certificate of liability insurance to the City Manager for approval prior to start of any construction. The insurance requirements, which are set forth in the City of Emerson Development Regulations, Section 209, require \$1,000,000 in general liability insurance coverage for all contractors, subcontractors, property owners, or entity working on the project, with the City of Emerson listed as co-insured.
- 1.3 **Safety and Security:**
- A. Contractors undertaking Work under these Standard Specifications of the City of Emerson are solely and fully responsible for the protection and **SAFETY** of the site(s) of the Work, including the public, the workmen, the City's employees and representatives, and other regulatory personnel.
 - B. Provide all construction aids and equipment required for job safety, for protection of the public, to facilitate execution of the Work and to facilitate access by the City representatives and regulatory personnel.
 - C. Provide fences, barriers, lights, signs, ladders, sheeting, shoring, railings, hoists, and other such facilities and equipment and maintain all such facilities and equipment in "like new" condition.
 - D. **Traffic Regulation:** Comply with traffic control and safety requirements of local authorities **and** any Georgia DOT permits applicable to the Work.

1. Provide and operate traffic control and directional signals, barricades, warning signs, etc. to direct and maintain an orderly safe flow of traffic in all areas affected by Contractor's operations.
2. All traffic control signs, barricades, etc. shall be clean, in a "like-new" condition, and easily seen and read. **Old, faded, and/or dirty signs will not be allowed at the site(s) and shall be replaced.**
3. Provide qualified and suitably equipped flaggers whenever and wherever construction operations encroach on traffic lanes, as required for regulation of traffic, and/or as required by applicable DOT permits, and/or the City representatives.
4. Provide lights at night and during periods of low visibility to clearly delineate traffic lanes and to alert traffic to construction operations underway.

1.3 Submittal Procedures:

- A. Unless otherwise specified, submit at least 4 copies (includes only 1 for return to Contractor) of required submittals to the City at least 7 days prior to start of the Work. If re-submittals are required, the Contractor will be notified in writing of required corrections or of rejected submittals and shall submit new or corrected submittals within 5 days after such notification.
- A. Each submittal shall include the Contractor's statement that the submission has been **reviewed and APPROVED** by the Contractor. This statement shall warrant that the submittal conforms to the requirements of these specifications except for any deviations, which shall be clearly noted.

1.4 Permits & Regulations:

- A. Verify that applicable Land Disturbing Activity Permits have been obtained for land disturbing activities associated with the water and sewer utility Work.
- B. Obtain NPDES permit for construction activities, if applicable, under the Georgia EPD General Permit GAR100002, *Permit to Discharge Storm Water Associated with Construction Activity*.
- C. Provide an Erosion, Sedimentation and Pollution Control Plan, issue a Notice of Intent (NOI), and undertake monitoring responsibilities related to the Georgia EPD General Permit, GAR100002.
- D. Verify that Georgia DOT utility encroachment permits, if required, have been issued for the Work. Provide advance notice to the Georgia DOT Utilities Engineer prior to excavating bore pits, jacking, boring or tunneling pipe, excavating within rights-of-way, making tie-ins or cross connections, or storing any material on rights-of-way. Obtain all blasting permits, if required. Contractor's work shall conform to all requirements of applicable DOT permits.
- E. Prior to start of construction, confirm that all required approvals and permits for construction of water and sewer utilities have been obtained from the Georgia Environmental Protection Division.
- F. All construction shall comply with the Department of Labor, Occupational Safety and Health Administration, 29 CFR Part 1926, Subpart P, latest edition.

1.5 Reference Standards: Comply with specified Reference Standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher

standards or more precise workmanship. Conform to reference standards by date of issue current as of the date of approval of the Drawings by the City.

1.6 Construction Quality Control Testing and Inspection:

- A. Employ an independent testing laboratory, acceptable to the City, for performing all specified field and laboratory quality control testing and inspection specified herein at Contractor's expense.
- B. Schedule required quality control testing, cooperate with all testing personnel, and provide equipment and labor required for all sampling, preparation of samples, field testing, and transport of samples to the testing laboratory.
- C. The City may also employ a testing laboratory for performing all specified field and laboratory quality control testing. If the City's quality control testing indicates Contractor's failure to meet specifications, the cost of such tests, and subsequent re-tests, shall be borne by the Contractor.
- D. Provide two signed copies of each field and laboratory testing report to the City immediately upon receipt.
- E. When any portion of the Work is ready for final testing, Schedule the testing, provide the specified notice to the City, and conduct the tests in the presence of the City's Representative(s).

1.7 Protection of Existing Facilities:

- A. The Work may require Contractor operations on, or in the vicinity of, existing public or private utility systems. Protect existing underground and overhead utility pipes, poles, lines, services, structures, etc. from damage or interruption of service by the conduct of construction operations. Provide at least 24 hour advance notice to the Utility Owner for any planned interruptions of service. Furnish and have available at all times an electronic pipe detector in working order, and use to survey the proposed path of trenching prior to excavation.
- B. Comply with the Georgia Utility Facility Protection Act and the Georgia High Voltage Safety Act. The position of known underground and overhead utilities as shown on drawings or flagged by Utility Owners for the Contractor's information may not be accurate or complete. The accurate location and protection of all underground and overhead utilities and structures in the construction area is the sole responsibility of the Contractor.
- C. Take extreme care to avoid contamination or unnecessary interruption of service to the public. Should contamination or unplanned interruption occur, devote full efforts, in coordination with the Utility Owner's personnel, to correcting the problem without delay. It is the Contractor's responsibility to shall have a representative on call at all times and shall maintain a crew with necessary tools and equipment available on call after normal working hours, on weekends, during inclement weather and other times when work is not in progress, to perform any necessary emergency repair work which may occur. Failure to promptly repair in such situations shall be just cause for the City of Emerson to take whatever action necessary to remedy the situation and to invoice the cost to the Contractor.
- D. The Contractor shall be responsible for paying all fines, penalties, and other costs resulting from damage to existing utilities and other facilities resulting from the Contractor's operations.

1.8 Site Conditions:

- A. Maintain access to the existing facilities and private property at all times. Provide crushed stone, cover plates, or temporary pavement as necessary to maintain roadways in a safe and passable condition at all times until the permanent roadway surface is repaired.
 - B. Protect carefully all existing benchmarks, monuments, and other reference points. Replacement, if required, shall be by a licensed land surveyor at Contractor's cost.
 - C. Conduct all Work required on public rights-of-way in strict conformance with rules, regulations, and permit conditions of governing bodies having jurisdiction over the Work.
 - D. If articles of historical or archaeological value, including coins, fossils, and articles of antiquity are uncovered by the Work, or otherwise brought to the attention of the Contractor during the course of the Contract, all construction activities in the vicinity shall be stopped and the City shall be notified immediately. All such articles of historical or archaeological value found in the public rights of way shall remain the property of the City of Emerson.
 - E. Do not conduct blasting operations for rock removal within six feet (6 feet) of edge of any public roadway pavement.
 - F. Check existing grades on the site prior to starting. Beginning of any grading shall constitute acceptance of the existing site conditions.
 - G. Prior to starting any excavation contact the Utilities Protection Center, "Call Before You Dig," telephone number 1-800-282-7411.
 - H. Allowable borrow or waste areas, unless designated on the Drawings, shall be approved by the Owner prior to start of construction.
 - I. All unsuitable excavated material must be properly disposed of in a manner acceptable to the Owner and in a manner that will not adversely impact the environment.
 - J. The bypassing of raw wastewater onto the ground or into a receiving stream is prohibited.
- 1.9 Temporary Utilities: Provide and maintaining temporary utilities and facilities/controls as necessary for construction.
- A. Temporary Electricity: Provide temporary electric power service to the site(s) for the duration of construction activities as required for the Work.
 - B. Temporary Lighting: Provide temporary lighting for the site(s) as necessary for safety, for construction operations, and for the Contractor's and City's quality control inspections.
 - C. Temporary Telephone Service: Provide temporary telephone service to the site(s). Contractor's personnel shall have a functional cell telephone activated at site(s) at all times that construction activities are taking place.
 - D. Temporary Trash and Garbage Disposal: Provide trash containers for the site(s) and properly dispose of all trash, debris and garbage as necessary to keep the site(s) clean and sanitary at all times, including storage and parking area, along access roads, and haul routes.
 - E. Temporary Water Service: Provide temporary water as needed for construction activities on the site(s).

- F. Temporary Sanitary Facilities: Provide and maintain required toilet facilities and enclosures and maintain in clean and sanitary condition for workmen's use.
- 1.10 Environmental Controls: Provide and maintain methods, equipment, and temporary construction, etc. as necessary to provide controls over environmental conditions at the construction site(s) and related areas under Contractor's control; removal of physical evidence of temporary facilities at completion of Work.
- A. Noise Control: Comply with all local, state, and federal (OSHA) requirements. Limit all operations, except during emergencies, to daylight periods when noise from operations will not disturb residential neighborhoods. No work shall be executed prior to 6 AM, after 10 PM, or on Sundays.
- B. Dust Control: Provide positive dust control methods at the site and all off-site borrow areas. Apply water or other dust control materials as required to minimize dust emissions from construction operations, and provide positive means to prevent air-borne dust from dispersing into the atmosphere at all times. Prevent dust being a nuisance to the public, the neighbors, and a detriment to the performance of work at the site(s).
- C. Storm Water: Comply with storm water controls specified by the applicable Land Disturbance Permit and approved Erosion Control Plan.
- D. Stored Materials: Provide methods to control surface water to prevent damage to the stored materials, installed work, the site, and adjoining properties. Control all earthwork filling, grading and ditching to direct surface drainage away from excavations, pits, tunnels and other construction areas; and to direct drainage to proper runoff.
- E. Debris Control: Maintain the site(s) and all areas under Contractor's control free of extraneous debris and prevent accumulation of debris at construction site, storage and parking areas, or along access roads.
- F. Pollution Control: Provide methods, means and facilities required to prevent contamination of soil, water or atmosphere by the discharge or spills of noxious substances from construction operations. Take special measures to prevent harmful substances from entering public waters. Prevent disposal of wastes, effluent, chemicals, or other such substances adjacent to streams, or in sanitary or storm sewers.
- G. Erosion Control: Do not begin clearing or grading operations until a Land Disturbance Permit has been issued. Periodically inspect excavated or disturbed areas to detect any evidence of the start of erosion, apply corrective measures as required to control erosion. Provide supplementary erosion and run-off control measures when it becomes apparent that additional problems exist.
- H. Removal of Temporary Facilities and Controls: Remove all temporary facilities and controls from the site(s) promptly upon completion of the Work.
- 1.11 Restoration:
- A. Restore all areas that are disturbed areas equal to their original condition, with the exception of trees or other physical features that are designated to be removed.
- B. Establish a full stand of permanent grass on all undeveloped areas that have been disturbed such as woods and open fields, to protect against erosion.
- C. Re-establish lawn and previously grassed areas that are disturbed by construction with permanent grass equal to that which existed prior to construction. Restored grass must be mowable with residential type lawnmower.

- D. Restore or replace all disturbed features of any type (including landscaping, shrubs, structures, fences, signs, mailboxes, bridges, walkways, pavements, etc.) equal to their condition prior to construction.
- 1.12 Record Drawings: Upon completion, testing, and acceptance of the Work, comply with as-built requirements of the City of Emerson Development Regulations.
- A. Keep an extra set of approved drawings on site and mark-up as the Work progresses to show all deviations from the approved Drawings and specifications. Upon completion of the Work, deliver the field set of "as-built" drawings to the City Manager.
 - B. Provide accurate as-built drawings prepared and certified by a licensed Professional Engineer or Land Surveyor. Submit two sets of certified drawings to the City Manager on standard 24"x36" sheets with maximum scale 1"=50"
 - C. Provide the as-built drawings in digital format in AutoCAD (2004 or newer) and ESRI shapefile format for inclusion in the City's Geographic Information System (GIS). Files must be geo-referenced and include all construction and project details which truly reflect the final project as it was constructed. All datums shall be Georgia West State Plane and NAVD88 respectively.

END OF SECTION