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**SECTION 02 30 00**  
**SUBSURFACE INVESTIGATION**

**PART 1 – GENERAL**

**1.01 DESCRIPTION**

- A. This section includes subsurface data logs for information only.

**1.02 SOIL INVESTIGATION DATA**

- A. Subsurface data logs and geotechnical report are available for information only. Actual conditions may vary. If bidders are not satisfied with accuracy and completeness of all available data, they are at liberty to make borings or perform soil investigation work for their own use at its expense. If Contractor chooses to perform his own investigation, work shall be coordinated with the Owner and paid for by the Contractor. Any results from Contractor's investigation shall be shared promptly with the Owner and Engineer. Owner reserves the right to share Contractor's investigation data with other potential bidders if information could affect bidding process.
- B. The boring logs and test results are for information of the Contractor. Owner and Engineer assume no responsibility for the information.

**PART 2 – PRODUCTS**

**2.01 GEOTECHNICAL REPORT**

- A. See attached geotechnical report, completed by Terracon, and dated March 15, 2018, project number ES185011.

**PART 3 – EXECUTION**

None this Section.

END OF SECTION

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**SELECTIVE SITE DEMOLITION**

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**SECTION 02 41 13**  
**SELECTIVE SITE DEMOLITION**

**PART 1 – GENERAL**

**1.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions apply to work of this section. The existing treatment plant drawings will be provided to contractors to help in locating the piping and other structures. However, these drawings are provided as information only. There may be other underground utilities which contractor may encounter that needs to be removed from the site and shall be included in the lump sum contract.

**1.02 DESCRIPTION OF WORK**

- A. Extent of selective demolition work is indicated on drawings.
- B. Adhere to all Georgia EPD standards and requirements.

**1.03 SUBMITTALS**

- A. Schedule: Submit schedule indicating proposed methods and sequence of operations for selective demolition work to Owner's representative for review prior to commencement of work. Include coordination for shut-off, capping, and continuation of utility services as required, together with details for dust and noise control protection. Include schedule and location for return of any items identified on plans that are to be delivered to Owner.

**1.04 JOB CONDITIONS**

- A. Condition of Structures: Owner assumes no responsibility for actual condition of items to be demolished.
- B. Partial Demolition and Removal: Items designated for removal shall be removed as work progresses. Transport salvaged items from site as they are removed. Storage or sale of removed items on site shall not be permitted.
- C. Protections: Provide temporary barricades and other forms of protection as required to protect Owner's personnel and general public from injury due to selective demolition work.
- D. Protect all existing structures that are designated to remain throughout demolition operations. Remove protections at completion of work.

**1.05 DAMAGES**

- A. Promptly repair damages caused to adjacent facilities by demolition work at no cost to Owner.

**1.06 TRAFFIC**

- A. Conduct selective demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
- B. Do not close, block or otherwise obstruct streets, walks, or other occupied or used facilities without written permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways.

**1.07 EXPLOSIVES**

- A. Use of explosives will not be permitted.

**1.08 UTILITY SERVICES**

- A. Maintain existing utilities indicated to remain, keep in service, and protect against damage during demolition operations.
- B. Do not interrupt existing utilities serving occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to governing authorities.

**1.09 ENVIRONMENTAL CONTROLS & SPECIAL MATERIAL HANDLING**

- A. Use water sprinkling, temporary enclosures, and other suitable methods to limit dust and dirt rising and scattering in air to lowest practical level. Comply with governing regulations pertaining to environmental protection.
- B. Do not use water when it may create hazardous or objectionable conditions such as ice, flooding, and pollution.
- C. Contractor shall survey the existing site for possible asbestos and any other hazardous materials before start of the demolition. In case of any special handling material presence, the contractor shall remove the material in accordance to the GA. EPD requirements. The cost shall be included in the lump sum contract.

**1.10 MEASUREMENT AND PAYMENT**

- A. There will be no measurement for selective demolition. Payment will be made at the contract lump sum price. Payment will include equipment, labor, materials, protection, clean-up, disposal, and all work necessary to complete the selective demolition shown on the construction drawings.

**PART 2 – PRODUCTS**

None in this section

**PART 3 – EXECUTION**

### 3.01 PREPARATION

- A. Prior to commencement of selective demolition work, check areas in which work will be performed. Photograph or video existing conditions of surfaces, equipment, or surrounding properties that could be misconstrued as damage resulting from selective demolition work. Review items of concern onsite with Owner and Engineer. File with Owner or Engineer prior to starting work.
- B. Cover and protect equipment and fixtures to remain from soiling or damage when demolition work is performed in areas from which such items have not been removed.

### 3.02 DEMOLITION

- A. Perform selective demolition work in a systematic manner. Use such methods as required to complete work indicated on the plans in accordance with demolition schedule and governing regulations.
- B. As indicated on plans all underground utilities including water & sewer lines, power cable and conduits, concrete & wooden piles, manhole, all other structures, and foundations shall be removed to depth of not less than 10 ft. where new piling is to be driven over the existing structures (clarifiers, thickeners, wetwell, etc.) the entire bottom concrete slab (regardless of depth of the slab) must be completely remove.
- C. Demolish concrete in small sections. Cut concrete at junctures with construction to remain using power-driven masonry saw or hand tools. Do not use power-driven impact tools. All spoiled concrete, metals, pipes, rebars, and other building materials shall be properly removed from site and disposed of in according to EPD requirements.
- D. Completely fill below-grade areas and voids resulting from demolition work. Provide fill consisting of approved earth, gravel and sand, free of trash and debris, stones over two-inch diameter, roots, or other organic matter.
- E. If unanticipated mechanical, electrical, or structural elements, which conflict with intended function or design, are encountered, investigate and measure both nature and extent of the conflict. Submit report to Owner in written, accurate detail. Pending receipt of directive from Owner, rearrange selective demolition schedule as necessary to continue overall job progress without delay.

### 3.03 SALVAGE MATERIALS

- A. All equipment and materials desired by Owner shall be delivered to a designated location, not further than two miles from the job site. Desired equipment may include, but not be limited to, generator, transfer switch, pumps, motors, controls, valves, electrical panels, and other items.
- B. Any articles of historic significance will remain the property of the Owner. Notify Owner immediately if such items are encountered. Stop demolition or excavation work and obtain acceptance regarding further historical investigation, method of removal or salvage for Owner.

**3.04 DISPOSAL OF DEMOLISHED MATERIALS**

- A. Remove debris, rubbish and other materials resulting from demolition operations from site. Transport and legally dispose of materials off site.
- B. If hazardous materials are encountered during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling, and protection against exposure or environmental pollution.
- C. Burning of removed materials is not permitted on project site.

**3.05 CLEAN-UP AND REPAIR**

- A. Upon completion of demolition work, remove tools, equipment and demolished materials from site. Remove protections and leave site clean.
- B. Repair demolition performed in excess of required work. Return structures and surfaces to remain to the condition existing prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective demolition work.
- C. Fill in all voids created by selective demolition and grade site to drain. Grass all disturbed areas for erosion control.

END OF SECTION