

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.01 REQUIREMENTS INCLUDED

- A. This Section specifies administrative and procedural requirements to define pay items and determine payable amounts, and includes but is not limited to:
 - 1. General Provisions
 - 2. Cash Allowances
 - 3. Work Not Paid for Separately
 - 4. Measurement for Payment

- B. Related Sections:
 - 1. General and Special Conditions
 - 2. JWSC Standards for Water and Sewer Design and Construction

1.02 GENERAL PROVISIONS

- A. This specification includes standard descriptions for all bid items. This Contract's specific bid items are listed in the Bid Form which will be used to develop an approved Schedule of Values.

- B. The total Contract Amount shall cover the Work required by the Contract Documents. All costs in connection with the successful completion of the Work, including furnishing all materials, equipment, supplies, and appurtenances; providing all construction, equipment, and tools; and performing all necessary labor and supervision to fully complete the Work, shall be included in the unit and lump sum prices bid. All Work not specifically set forth as a pay item in the Bid Form shall be considered a subsidiary obligation of the Contractor and all costs in connection therewith shall be included in the prices bid.

- C. If used, all estimated quantities stipulated in the Bid Form or other Contract Documents are approximate and are to be used only (a) for the purpose of comparing the bids submitted for the Work, and (b) as a basis for determining an initial Contract Amount. The actual amounts of Work completed and materials furnished under unit price items may differ from the estimated quantities. The Owner does not expressly or by implication represent that the actual quantities involved will correspond exactly to the quantities stated in the Bid Form; nor shall the Contractor plead misunderstanding or deception because of such estimate or quantities or of the character, location or other conditions pertaining to the Work. Payment to the Contractor will be made only for the actual quantities of work performed or material furnished in accordance with the Drawings, Specifications,

and other Contract Documents, and it is understood that the quantities may be increased or decreased as provided in the General Conditions.

- D. If used, the unit prices listed in the Bid Form shall include all services, obligations, responsibilities, labor, materials, devices, equipment, royalties and license fees, supervision, temporary facilities, construction equipment, bonds, insurance, taxes, clean up, traffic control, control surveys, field offices, close out, overhead and profit and all connections, appurtenances and any other incidental items of any kind or nature, as are necessary to complete the Work in accordance with the Contract Documents, unless otherwise noted.
- E. Payment for Work will be based on the percent of completed work of each item in the Schedule of Values, including stored materials, as determined by the Owner. Progress of work in each item of the Schedule of Values will be determined separately by the Owner. However, the Owner will issue a single payment certificate for progress on the Contract.
- F. The Contractor agrees that it will make no claim for damages, anticipated profits, or otherwise because of any difference between the amounts of work actually performed and materials actually furnished and the estimated amounts therefore.
- G. Where payment by scale weight is specified under certain items, the Contractor shall provide suitable weighing equipment which shall be kept in accurate adjustment at all times and certified. The weighing of all material shall be performed by the Contractor in the presence and under the supervision of the Owner.
- H. All schedules included in the Contract Documents are given for convenience and are not guaranteed to be complete. The Contractor shall assume all responsibility for the making of estimates of the size, kind, and quantity of materials and equipment included in Work to be done under this Contract.
- I. Where pipe fittings are noted on the Drawings, such notation is for the Contractor's convenience and does not relieve the Contractor from laying and jointing different or additional items where required.

1.03 CASH ALLOWANCES

- A. The Contractor shall include in the Total Bid Amount, all cash allowances stated in the Contract Documents and listed in the Bid Form. Items covered by these allowances shall be supplied for such amounts and by such persons as the Owner may direct.

- B. The Contractor will obtain the Owner's written acceptance before providing equipment, materials or other Work under a cash allowance. Payments under a cash allowance will be made based on actual costs, excluding costs of general conditions, handling, unloading, storage, installation, etc., which will be considered to be included within the Contract Price. Payments within the limits of any allowance will exclude overhead and profit and bond and insurance premiums, since those costs will be considered to be included within the Contract Amount. The Contractor shall submit appropriate documentation to validate the actual cost of the item.
- C. The amount of the allowance shall be adjusted accordingly by Change Order to recognize the allowable cost incurred by the Contractor.

1.04 WORK NOT PAID FOR SEPARATELY

- A. Delivery: Payment for equipment delivery, storage or freight shall be included in the pay items including their installation and no other separate payment will be made therefore.
- B. Bonds: Payment for bonds required by the Contract shall be included in the pay items for the Work covered by the required bonds and no separate payment will be made.
- C. Preparation of Site: Unless otherwise noted, payment for preparation of site shall be included in pay items proposed for the various items of Work and no separate payment will be made therefore. Preparation of site includes setting up construction plant, offices, shops, storage areas, sanitary and other facilities required by the specifications or state law or regulations; providing access to the site; obtaining necessary permits and licenses; payments of fees; general protection, temporary heat and utilities including electrical power, water and sewer; providing shop and working drawings, certificates and schedules; providing required insurance; pre-construction and construction progress photographs and videos; clearing and grubbing; trench excavation, sheeting, shoring and bracing; dewatering and disposal of surplus water, backfill, compaction and grading; testing materials and apparatus; maintenance of drainage systems; appurtenant work; and close-out documentation; cleaning up; and all other work regardless of its nature which may not be specifically referred to in a Bid Item but is necessary for the complete construction of the project set forth by the Contract.
- D. Permitting & Permit Fees. Section 01065: Permits and Fees identifies all permits which the Owner has obtained or submitted applications for. All other permits and fees necessary for the project are the responsibility of the Contractor, shall be included in the pay items for the Work requiring the permits, and will not be paid for separately.

- E. The Owner reserves the right to delete any item included in the Bid Form/Schedule of Values and decrease the Contract Price by the scheduled amount for the item deleted.

1.05 MEASUREMENT FOR PAYMENT

A. Methods of Measurement - Generally:

- 1. Units of measurement shall be defined in general terms as follows:
 - a. Linear Feet (LF)
 - b. Square Feet (SF)
 - c. Square Yards (SY)
 - d. Cubic Yards (CY)
 - e. Each (EA)
 - f. Lump Sum (LS)
- 2. Unit Price Items:
 - a. Linear Feet (LF) shall be measured along the horizontal length of the centerline of the installed material, unless otherwise specified. Pipe shall be measured along the length of the completed pipeline, regardless of the type of joint required, without deduction for the length of valves or fittings. Pipe included within the limits of lump sum items will not be measured.
 - b. Square Feet (SF), Square Yards (SY), Cubic Yards (CY), and Each (EA) shall be measured as the amount of the unit of measure installed and accepted as complete within the limits specified and shown in the Specifications and Drawings. Slope angles and elevations shall be measured using land-surveying equipment. Contractor shall provide supporting documentation (i.e. drawings, delivery tickets, invoices, survey calculations, etc.) to verify actual installed quantities.
- 3. Lump Sum Items:
 - a. Payment will be made for each individual lump sum item on a percentage of completion basis as estimated by the Contractor and approved by the Owner.
- 4. Adjustments to costs provided in the accepted Schedule of Values may be made only by Change Order.
- 5. The Owner reserves the right to delete any item included in the Bid Form/Schedule of Values and decrease the Contract Price by the scheduled amount for the item deleted.

1.06 PAYMENT ITEMS

A. Mobilization and Demobilization

1. Measurement: Measurement of various items for Mobilization and Demobilization shall not be made for payment and all items shall be included in the lump sum price. This lump sum price shall not exceed 5% of the total of all bid items.
2. Payment: Payment of 75 percent of the applicable lump sum price for the item shall be full compensation for the Work consisting of the preparatory Work and operations in mobilizing for beginning Work on the Contract, including, but not limited to, movement of those personnel, equipment, supplies and incidentals to the project site, preparation of submittals, and for the establishment of temporary offices and buildings, safety equipment and first aid supplies, project signs, field surveys, sanitary and other facilities required by these specifications, and State and local laws and regulations. The costs of General Requirements, bonds, permits, and any required insurance, and any other preconstruction expense necessary for the start of the Work, excluding the cost of construction materials, shall also be included. This Work also consist of the general project management of the Work including, but not limited to, field supervision and office management, as well as other incidental cost for management of the Work during the duration of the Contract. This Work also includes maintenance of the field office for the duration of the Contract.
3. Payment of the remaining 25 percent of the applicable lump sum price for this item shall be full compensation for the Work consisting of demobilization or the operations normally involved in ending Work on the project including, but not limited to, termination and removal of temporary utility service and field offices; demolition and removal of temporary structures and facilities; restoration of Contractor storage areas; disposal of trash and rubbish, removal of equipment from the site, and any other post-construction work necessary for the proper conclusion of the Work.

B. Maintenance of Traffic

1. Measurement: Measurement shall be based on satisfactory Control and Maintenance of Traffic in accordance with the Construction Drawings, Glynn County requirements and associated permit requirements.
2. Payment: Payment of the applicable Contract lump sum price will be full compensation for furnishing all labor, materials, and equipment necessary to maintain public roadway and pedestrian/bicycle traffic including flag men, uniformed police officers, barricades, warning lights/flashers, lighted sign boards, and signs. Also included is furnishing, installing, maintaining, and removal of a Traffic Control Plan, control and safety devices, control of dust, temporary crossing structures over trenches, temporary pedestrian/bicycle

pathway including matting and netting systems, any necessary detour facilities, and other special requirements for the safe and expeditious movements of traffic, including vehicular, bicycle, and pedestrian. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

C. Erosion, Sedimentation and Pollution Control

1. Measurement: Measurement shall be based on satisfactory Erosion, Sedimentation and Pollution Control in accordance with the Construction Drawings, Contract Documents and all Federal, State and local requirements and associated permit requirements.
2. Payment: Payment of the applicable Contract lump sum price will be full compensation for furnishing all labor, materials, and equipment to control and prevent erosion and sediment transportation from the Work area to adjacent properties and waterways, including installation, maintenance, monitoring, inspection and reporting, and removal of temporary erosion, sedimentation and pollution controls. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

D. Pressure Piping (Forcemain) – Horizontal Directional Drill

1. Measurement: Pressure Piping (Forcemain) – Horizontal Directional Drill installation shall be measured in actual linear feet satisfactorily furnished and installed, as measured along the length of the centerline of the completed directionally drilled pressure forcemain piping in accordance with the Construction Drawings and Contract Documents. The Contractor shall include in the Contract unit price its allowance for horizontal deflection, vertical deflection, and all wastage.
2. Payment: Payment will be made at the Contract unit price per linear foot for Pressure Piping (Forcemain) – Horizontal Directional Drill. Payment shall be full compensation for all labor, materials, and equipment to construct the respective pipeline including coordination with existing utilities, protection of existing utilities including service connections, tree protection, excavation, sheeting, shoring and bracing, dewatering, groundwater treatment and disposal, backfill, compaction, and grading, project planning, submittals, and calculations; horizontal directional drilling and related systems, mud recycling, entry/back reaming pits, laying and fusing/joining pipe; locate wire system; testing; swabbing, flushing; site restoration (unless specifically noted otherwise), clean-up, proper disposal of all remaining drilling mud, other fluids, and solids, and bore logs and reports. This item also includes all necessary restraining devices; identification markers; and all necessary adapters and fittings not specifically called out in other line items. Any temporary water service lines the Contractor installs to provide water for the Horizontal Directional Drill operations shall be included in this item and shall include cost of piping installation and abandonment. Contractor shall be

responsible for removal, clean-up, and disposal of drill fluid breakouts.

In order to expedite construction of the project, Owner has pre-purchased 11,000 linear feet of 16-inch HDPE (DIPS DR11) forcemain piping. All other piping necessary for the Base Bid installation shall be provided by the Contractor and shall be included in the unit cost of this item. All piping for the Additive Alternate installation shall be provided by the Contractor and shall be included in the unit cost of the item.

E. Pressure Piping (Forcemain) (Varies by Size, by Open Cut)

1. Measurement: Pressure Piping (Forcemain) – Open Cut installation regardless of size shall be measured in actual linear feet satisfactorily furnished and installed, as measured along the length of the centerline of the completed open cut pressure forcemain piping in accordance with the Construction Drawings and Contract Documents, regardless of the type of joint required, without deduction for the length of valves and fittings. Pipe included within the limits of lump sum pay items will not be measured for payment under this item. Piping installed by horizontal directional drill has a separate description.
2. Payment: Payment will be made at the Contract unit price per linear foot for Pressure Piping (Forcemain) – Open Cut. Payment shall be full compensation for all labor, materials, and equipment to construct the respective pipeline including coordination with existing utilities, protection of existing utilities including service connections, tree protection, excavation, sheeting, shoring and bracing, dewatering, groundwater treatment and disposal, backfill, compaction, and grading, all testing, swabbing, flushing, site restoration (unless specifically noted otherwise), and clean-up. This item also includes all necessary restraining devices, locate wire system, detection tape, and identification markers. All piping for this item shall be provided by Contractor and shall be included in the unit cost of the item.

F. 10-Inch Discharge Bypass Assembly at LS2032 Site

1. Measurement: 10-Inch Discharge Bypass Assembly at LS2032 Site shall be measured by satisfactory installation of the discharge bypass assembly complete and operational in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment of the 10-Inch Discharge Bypass Assembly at LS2032 Site will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to construct the assembly including excavation, backfilling, compacting and grading; necessary mechanical restraints; concrete support ring; assembly components from buried MJt DI 90° bend through check valve and blind flange, 316 SS pipe support, and concrete pad; and related work to complete the installation. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the

Owner.

G. Fittings and Piping Accessories (Varies by Material, Type, Size)

1. Measurement: Fittings and Piping Accessories installation regardless of material, type, and size shall be measured by the actual number satisfactorily furnished and installed in accordance with the Contract Drawings and Contract Documents.
2. Payment: Payment will be made at the Contract unit price for each Fitting or Piping Accessory of each material, type, and size. Payment shall be full compensation for all labor, materials, and equipment to furnish and install Fittings and Piping Accessories, including any necessary mechanical restraints, tie rods, or supports, with all required excavation, backfill, and compaction, and all necessary incidentals required to complete and test the work.

H. Valves (Varies by Type and Size)

1. Measurement: Valves regardless of type and size shall be measured by the actual number satisfactorily furnished and installed in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment will be made at the Contract unit price for each Valve of each type and size. Payment shall be full compensation for all labor, materials, and equipment necessary to furnish and install the Valve with noted operator, complete, with all required excavation and backfill, necessary jointing, adapter/extension pieces, supports (if applicable), mechanical restraints at valve, nuts, bolts, socket clamps, sleeves; valve box and cover, valve tags, electronic ball markers; valve box extension (if applicable); debris shield; flushing; testing; and all incidental and related work required to complete the Valve. Air Release Valves shall have separate descriptions.

I. Air Release Valve Assembly in Pedestal

1. Measurement: Air Release Valve Assembly in Pedestal installation shall be measured by the actual number satisfactorily furnished and installed in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment will be made at the Contract unit price for each Air Release Valve Assembly in Pedestal. Payment shall be full compensation for all labor, materials, and equipment necessary to furnish and install the Air Release Valve Assembly in Pedestal including all excavation, backfill, and compaction; tapping or cutting pipelines; all piping, fittings and valves between air release valve and main, saddle, sleeve or tee fitting in main; pedestal box and support; and all incidental and related work to complete the Air Release Valve Assembly in Pedestal.

- J. Air Release Valve Assembly in Manhole
1. Measurement: Air Release Valve Assembly in Manhole installation shall be measured by the actual number satisfactorily furnished and installed in accordance with the Construction Drawings and Contract Documents.
 2. Payment: Payment will be made at the Contract unit price for each Air Release Valve Assembly in Manhole. Payment shall be full compensation for all labor, materials, and equipment necessary to furnish and install the Air Release Valve Assembly in Manhole, complete, including all excavation; backfill, and compaction; tapping or cutting pipelines; HDPE manhole with hatch cover, all piping, fittings and valves between air release valve and main, saddle, sleeve or tee fitting in main, and all incidental and related work to complete the Air Release Valve Assembly in Manhole.
- K. Tie-In to 10-Inch Existing Forcemain at LS2032 Site
1. Measurement: Tie-In to 10-Inch Existing Forcemain at LS2032 Site shall be measured by satisfactory installation of the tie-inch complete and operational in accordance with the Construction Drawings and Contract Documents.
 2. Payment: Payment of the Tie-In to 10-Inch Existing Forcemain at LS2032 Site will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to identify the location of the existing 10-inch piping stub-out; excavation, backfilling, and compacting; tie-in of proposed and existing forcemains including any piping accessories or incidentals; dewatering; testing; and related work to complete the installation. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.
- L. 16-Inch Forcemain Connection to Existing Junction Box at Dunbar Creek WPCP
1. Measurement: Measurement for 16-Inch Forcemain Connection to Existing Junction Box at Dunbar Creek WPCP shall be measured by satisfactory connection of the tie-inch complete and operational in accordance with the Construction Drawings and Contract Documents.
 2. Payment: Payment of the 16-Inch Forcemain Connection to Existing Junction Box at Dunbar Creek WPCP will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to complete the work including excavation, sheeting, shoring and bracing, protection of surrounding structures and piping, dewatering, backfill, compaction, and final grading, core drilling concrete box, connection and sealing of proposed forcemain to box with LinkSeal, any necessary repairs to junction box wall due to construction, reforming flow line as necessary, grouting, clean-up, placing and removing all necessary signs and barriers, plus all incidental work necessary for a complete and operable

installation.

M. Recoat Existing Junction Box at Dunbar Creek WPCP

1. Measurement: Measurement of Recoat Existing Junction Box at Dunbar Creek WPCP shall be measured by satisfactory completion of the preparation and coating of the junction box, complete and operational in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment of Recoat Existing Junction Box at Dunbar Creek WPCP will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to remove and clean any solids from the junction box, properly dispose of all solids, remove the existing coating from the interior of the structure, repair any damage to the structure and prepare all surfaces in accordance with SewperCoat manufacturer's instructions, and for Bio-Nomic Services to properly install the SewperCoat product on the interior of the structure and provide a 10-year warranty on the materials and labor associated with the coating. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

N. Rehabilitate Existing Manual Screen Structure at Dunbar Creek WPCP

1. Measurement: Measurement of Rehabilitate Existing Manual Screen Structure at Dunbar Creek WPCP shall be measured by satisfactory completion of the demolition in the structure, and preparation and coating of the structure, complete and operational in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment of Rehabilitate Existing Manual Screen Structure at Dunbar Creek WPCP will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to remove and clean any solids from the structure, properly dispose of all solids, remove the remaining components of the screen frame and equipment from the structure, remove the existing coating from the interior of the structure, repair any damage to the structure and prepare all surfaces in accordance with SewperCoat manufacturer's instructions, and for Bio-Nomic Services to properly install the SewperCoat product on the interior of the structure and provide a 10-year warranty on the materials and labor associated with the coating. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

O. Rehabilitate Existing Manhole at Dunbar Creek WPCP

1. Measurement: Measurement of Rehabilitate Existing Manhole at Dunbar Creek WPCP shall be measured by satisfactory completion of the preparation and coating of the manhole and installation of frame and cover, complete and operational in accordance with the Construction Drawings and

Contract Documents.

2. Payment: Payment of Rehabilitate Existing Manhole at Dunbar Creek WPCP will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to remove and clean any solids from the manhole, properly dispose of all solids, remove and replace existing frame and cover with new frame and cover, remove the existing fiberglass liner from the interior of the manhole structure, repair any damage to the manhole and prepare all surfaces in accordance with SewperCoat manufacturer's instructions, and for Bio-Nomic Services to properly install the SewperCoat product on the interior of the manhole and provide a 10-year warranty on the materials and labor associated with the coating. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

P. 30-Inch Ductile Iron Gravity Sewer Rehabilitation by CIPP

1. Measurement: Measurement for payment of 30-Inch Ductile Iron Gravity Sewer Rehabilitation by CIPP shall be measured in actual linear feet satisfactorily rehabilitated with CIPP, as measured along the length of the centerline of the piping from the inside face of upstream to inside face of downstream structures, in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment will be made at the Contract unit price per linear foot for 30-Inch Ductile Iron Gravity Sewer Rehabilitation by CIPP. Payment shall be full compensation for all labor, materials, and equipment to prepare the existing pipeline and properly install the CIPP including pre- and post-installation inspection videos, pre-installation sewer pipe cleaning, clearing of any pipeline obstructions, all water and power necessary for the rehabilitation operations, furnishing and applying the Cured-In-Place-Pipe material, curing and trimming, testing, incidentals, and all other related and necessary items required to successfully complete the rehabilitation.

Q. 16-Inch Bypass Assembly at Dunbar Creek WPCP

1. Measurement: 16-Inch Bypass Assembly at Dunbar Creek WPCP shall be measured by satisfactory installation of the bypass assembly complete and operational in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment of the 16-Inch Bypass Assembly at Dunbar Creek WPCP Site will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to construct the assembly including excavation, backfilling, compacting and grading; necessary mechanical restraints; concrete support ring; assembly components from buried MJt DI 90° bend through FLG DI 90° bend and blind flange; and related work to complete the installation. Payment will be made based on a percentage of completion basis as estimated by the

Contractor and approved by the Owner.

R. Temporary Bypass System Operations at Dunbar Creek WPCP

1. Measurement: Temporary Bypass System Operations at Dunbar Creek WPCP shall be measured by satisfactory completion of the sewer bypass operations at Dunbar Creek WPCP during construction in accordance with the Construction Drawings and Contract Documents.
2. Payment: Payment of the Temporary Bypass System Operations at Dunbar Creek WPCP will be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, equipment and fuel, as necessary for temporary bypass system operations, including preparation of all submittals, calculations, and plans required; delivery, setup, takedown, and removal; pumps, controls, piping, and hoses, fittings, valves, supports, LineStops, insert valves, plugs, or other items needed to block upstream flow; modification and restoration of existing manholes and structures for suction and discharge; tanks, tankers, vacuum/pumper trucks, temporary bypass and service piping, hauling and proper disposal of sewage, cleanup, flow monitoring and logging equipment; gasoline/diesel fuel, protection of existing facilities, utilities, and property, traffic maintenance, bypass equipment protection, signs and barriers, monitoring, maintenance, and all incidental work required to satisfactorily complete this item. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

S. Restoration (Varies by Phase/Location)

1. Measurement: Measurement for Restoration shall be based on satisfactory restoration of all areas disturbed by construction activities in accordance with the Owner's requirements, Construction Drawings, and Contract Documents.
2. Payment: Payment of Restoration shall be made at the Contract lump sum price. Payment shall be full compensation for furnishing all labor, materials, and equipment to restore the areas disturbed by construction to equal or better than pre-construction condition. Areas covered by this pay item are highly established and landscaped. Satisfactory restoration of these areas includes restoration of all landscaping, mailboxes, trees, fences, signs, roadway paving, sidewalk, curb and gutter, driveways, lawn/grass and right-of-way areas with sod or seed as required, trees, mulch/straw, foundations, irrigation systems, and other structures and items disturbed by construction. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the project Owner, Glynn County, and Sea Palms POA representative.

T. Tree Removal (Frederica Road and Palmetto Street)

1. Measurement: Tree Removal (Frederica Road and Palmetto Street) shall be

measured for the complete and satisfactory removal of the noted trees as identified on the Construction Drawings and in accordance with the Contract Documents, and Glynn County Tree Advisory Board requirements.

2. Payment: Payment of Tree Removal (Frederica Road and Palmetto Street) shall be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to remove and properly dispose of the trees identified on the Construction Drawings in accordance with Glynn County Tree Advisory Board guidelines. Only the noted trees are included. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.
3. Georgia Power has contacted JWSC and has offered to cut down the noted trees given the proximity to the overhead power transmission lines and power poles. Contractor shall be responsible for all other work necessary to properly remove and dispose of the noted trees. Georgia Power Forester contact information will be provided to Contractor for coordination.

U. Tree Removal (East of Dunbar Creek WPCP Entrance)

1. Measurement: Tree Removal (East of Dunbar Creek WPCP Entrance) shall be measured for the complete and satisfactory removal of the noted trees as identified on the Construction Drawings and in accordance with the Contract Documents, and Glynn County Tree Advisory Board requirements.
2. Payment: Payment of Tree Removal (East of Dunbar Creek WPCP Entrance) shall be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to remove and properly dispose of the trees identified on the Construction Drawings in accordance with Glynn County Tree Advisory Board guidelines. Only the noted trees are included. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner.

V. Disposal and Replacement (with A-3 Sand) of Unsuitable Soils

1. Measurement: Disposal and Replacement (with A-3 Sand) of Unsuitable Soils shall be measured in actual cubic yards of unsuitable soil material to be disposed of and replaced in accordance with the Contract Documents.
2. Payment: Payment for Disposal and Replacement (with A-3 Sand) of Unsuitable Soils shall be made at the Contract unit price per cubic yard and shall constitute full payment for all labor, materials, equipment, and transportation to remove from the job site and dispose of all unsuitable material and furnish, place and compact suitable backfill as specified in the Contract Documents. The cost of excavation of unsuitable backfill and dewatering shall be included with the cost of the related piping or structure

installation.

W. Water Service Repair

1. Measurement: Water Service Repair shall be measured by the actual number of water services satisfactorily restored in accordance with the Contract Documents.
2. Payment: Payment will be made at the Contract unit price for each Water Service Repair. Payment shall be full compensation for all labor, materials, and equipment necessary to restore a water service including furnishing and installing service piping; connection to water main and meter; corporation stop, curb stop, and service fittings; meter couplings; removal of old service piping (if applicable); cutting and threading existing pipe; all necessary jointing, removing, adjusting; all required removal of grassing; excavation; dewatering; backfill; compaction; locate wiring; boring (if required); flushing and disinfection, protecting existing structures; cleaning up the site; furnishing all material, labor, tools and equipment; and all incidental and related work to complete the item.

X. As-Built Documents and Drawings

1. Measurement: As-Built Documents and Drawings shall be measured for the complete and approved As-Built Documents and Drawings provided by Contractor to Engineer of Record in accordance with the Contract Documents, specifically the Special Conditions.
2. Payment: Payment of As-Built Documents and Drawings shall be made at the Contract lump sum price which shall be full compensation for furnishing all labor, materials, and equipment to accurately record, document, and prepare as-built drawings in AutoCAD format, in accordance with the Special Conditions. All survey work shall be performed by a surveyor licensed in the State of Georgia. Payment will be made based on a percentage of completion basis as estimated by the Contractor and approved by the Owner

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION