

SECTION 01026

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Explanation and Definitions
- B. Measurement
- C. Payment
- D. Schedule of Values
- E. Application for Payment

1.2 EXPLANATION AND DEFINITIONS

- A. The following explanation of the Measurement and Payment for the bid form items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the CONTRACTOR of the necessity of furnishing such as a part of the Contract.

1.3 MEASUREMENT

- A. The quantities set forth in the bid form are approximate and are given to establish a uniform basis for the comparison of bids. The OWNER reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accord with the terms of the Contract.
- B. All measurements for payment shall be measured/verified by The OWNER'S REPRESENTATIVE.

1.4 PAYMENT

- A. Payment shall be made for the items listed on the Bid Form on the basis of the work actually performed and completed, such work including but not limited to, the furnishing and mobilization of all necessary labor, materials, equipment, transportation, clean up, restoration of disturbed areas, and all other appurtenances to complete the construction and installation of the work as shown on the drawings and described in the specifications.

- B. Payment shall fully reimburse the Contractor for cooperating with and meeting all the requirements of the State of Florida Trench Safety Act (90-96).
- C. Unit prices are used as a means of computing the final figures for bid and Contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.

1.5 SCHEDULE OF VALUES

- A. Approval of Schedule: Submit for approval a preliminary schedule of values, in duplicate, for all of the Work. Prepare preliminary schedule in accordance with the General Conditions. Submit preliminary schedule of values within 10 calendar days after the Effective Date of the Agreement. Submit final schedule of values in accordance with the General Conditions.
- B. Refer to Article 14 of the General Conditions (Part G) and Supplementary General Conditions (Part H) of these Contract Documents for additional requirements.

1.6 APPLICATION FOR PAYMENT

- A. Required Copies: Submit three (3) copies of each application on the "Estimate and Requisition for Payment" form CMO:013. Present required information in typewritten form or on electronic media printout.
- B. Prepare the Application for Payment in accordance with Article 14 of the General Conditions (Part G) and Supplementary Conditions (Part H) of these Contract Documents. Execute certification by signature of authorized officer, with original signature on each copy of application for payment.
- C. Use data from approved Schedule of Values.
- D. Stored Materials: When payment for materials stored is permitted, submit a separate Schedule for Materials Stored showing line item, description, previous value received, value incorporated into the Work and present value.
- E. Change Orders: List each authorized Change Order as an extension on continuation sheet, listing Change Order number and dollar amount as for an original item of work.
- F. Final Payment: Prepare Application for Final Payment as required in the General Conditions (Part G) of these Contract Documents.
- G. Submit an updated construction schedule for each Application for Payment.

PART 2 EXECUTION

2.1 MEASUREMENT AND PAYMENT

- A. Payment shall be made on the basis of work actually performed completing each item in the Bid, such work including, but not limited to:
1. the furnishing and mobilization of all necessary labor, materials, equipment, and transportation
 2. test pits or other methods required to locate existing underground utilities and/or structures
 3. Maintenance of Traffic
 4. erosion and sedimentation control
 5. excavation, backfilling, and compaction
 6. sheeting, shoring and bracing
 7. protection of existing structures, utilities, and customer service lines
 8. de-watering
 9. installation of Water Main and appurtenances
 10. grouting of existing AC Water Main (in accordance with all state, county and federal rules and safety guidelines)
 11. pressure testing and leakage testing
 12. bacteriological sampling and clearing
 13. reconstruction and regrading of pavement areas, road shoulders, and ditches or swales disturbed by construction activity
 14. finish grading and disposal of surplus material, unsuitable material and all debris
 15. cleanup and restorations
 16. All other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the drawings and described in the specifications.
 17. All work, materials & Installation are to be in accordance with LCU Design Standards
- B. Retainage will be withheld from the final payment until written acceptance by the Owners Representative for all final clean up, restoration and Record Drawings / As-Builts.
- C. PAYMENT ITEMS:

101 1 Mobilization/Demobilization: Payment for mobilization will be made at the contract lump sum price. This item shall include full compensation for mobilization, demobilization, pre-construction video, bonds & insurance, disposal of materials, clean up, all restoration and other miscellaneous items for a complete installation.

0102 1 Maintenance of Traffic: Payment for maintenance of traffic will be made at the contract lump sum price. This item shall include all labor, equipment and traffic control devices as directed by the FDOT standard index. Maintenance of traffic shall be performed in accordance with the FDOT standard index and approval of MOT plans may be required by the FDOT and Lee County prior to implementation.

- 0104 1 Erosion Control and Maintenance: Payment for erosion control will be made at the contract lump sum price. Erosion control shall be maintained throughout the duration of the project. This item shall include all necessary labor, equipment and materials for the installation and removal of erosion control devices including but not limited to temporary turf, sandbags, rock bags, slope drains, sediment basins, berms, synthetic bales, temporary silt fence and staked turbidity barriers. Erosion control shall conform to the FDOT standard specifications.
- 0110 1 Clearing and Grubbing: Payment for clearing and grubbing will be made at the contract lump sum price. This item includes all necessary labor, equipment and materials to clear and grub existing right of way conditions.
- 0120 1 Finish Grading: Payment for finish grading will be made at the contract lump sum price. This item shall include full compensation for grading the Right of Way within the project limits to the previous elevations and shall be in accordance with the details of the Plans.
- 330 1 Full Depth Open Cut (Asphalt Driveways): Payment for full depth open cut will be made at the contract Lump sum price. Repair materials shall consist of embankment, 6" of Lime rock base and 3" of Type B 12.5 (two 1½" lifts) Asphalt and shall be replaced in accordance with the detail shown on the Plans. All material shall be compacted and density tested in accordance with FDOT standard specifications.
- 0430 1 18" M.E.S. Remove and Replace: Payment for removing and replacing existing Mitered End Section (MES) will be made at the contract unit price for each MES removed and replaced.. This item includes all necessary labor, equipment and materials to remove and replace existing MES in accordance with the details in the Plans and in accordance with FDOT standard specifications.
- 0430 2 18" RCP Remove and Replace: Payment for remove and replace existing RCP will be made at the contract unit price unit price per linear foot of RCP removed and replaced. This item includes all necessary labor, equipment and materials to remove and replace existing RCP in accordance with the details in the Plans and in accordance with FDOT standard specifications.
- 0522 2 6" Concrete Sidewalk & Driveways (Remove & Replace): Payment for remove and replace concrete sidewalk will be made at the contract unit price per square yard. This item includes all necessary labor, equipment and materials to remove and replace 6" thick concrete sidewalk in accordance with the details in the Plans and in accordance with FDOT standard specifications. Also, any and all ADA devices removed will be replaced in and included in the price per square yard.
- 0570 1 Sodding: Payment for sod will be made at the contract Lump sum price. Sod shall be provided and installed in all disturbed areas caused by construction of this project in accordance with FDOT Specifications. Sod shall be replaced with like species at no additional compensation.

0710 1 Signing and Pavement Markings (final): Payment for signing and markings will be made at the contract lump sum price. This item includes all necessary labor, equipment and materials to replace any damaged or removed existing traffic control signing, wheel stops, and pavement markings to original condition. Use only materials listed on the Approved Products List (APL) in accordance with FDOT standard specifications.

200 - 205 Furnish and Install Water Main Pipelines: Payment for furnishing and installing utility pipelines (various sizes and types) will be made at the contract unit price per linear foot for the pipe in place. This item includes all necessary labor, equipment and materials for the furnishing and direct bury / open cut installation of the pipe, locate tape, tracer wire, signs, dewatering, compaction, pipe bedding, backfilling, sheeting, joint restraint devices, polyethylene sleeve, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered including rock removal / disposal and replace with approved backfill material compacted (for bidding purposes assume 50% of the project piping installation will have rock removal to 12" below pipeline invert), clearing and grubbing, sidewalk removal, mailboxes, culverts, storm sewers, and any and all other materials not specifically designated in the Bid documents, clean-up, flushing, sterilization, and Bac-T tests. Measurement of the pipe shall be to the nearest foot along the centerline including the lengths of valves and fittings. Linear footage measurement shall be horizontal.

Payment for furnishing and installing fittings will be made at the contract unit price per linear foot price of waterline installation. All fittings installed in the work not shown on the plans and not ordered or approved by the ENGINEER in writing will not be measured for payment. No additional payment will be made for fittings. If earth, sand or stone is used for stabilizing the subgrade, no payment will be made under this item. Payment for earth, sand or stone materials used in stabilizing the subgrade shall be included in the price for installing pipe.

206 HDPE Directional Bore: Payment for furnishing and installing directional bore in crossings will be made at the contract unit price per linear foot of pipe installed (various sizes), measured horizontally along the top of the pipe. This item includes all necessary labor, equipment and materials for furnishing and installing the carrier pipe, maintenance of traffic, excavation pits, sheeting, de-watering, compaction, Directional Boring, necessary fittings and pipe restraints, Excavation of all material encountered including rock, back filling, restoration and any other items not specifically mentioned but are required for a complete installation. Measurement shall be to the nearest linear foot of pipe installed, as measured along the centerline. Directional bore carrier pipe will be paid based on quantity provided in plans and bid tabulation. No additional payment shall be made due to CONTRACTOR means and methods, equipment capabilities or presence of rock. During the bid, the CONTRACTOR shall analyze the directional bore lengths to determine feasibility based upon site conditions, means and methods, equipment to be used, and the presence of rock. No additional payments shall be made for extensions beyond plan and bid lengths.

207 Fire Hydrant Assembly: Payment for furnishing and installing fire hydrant assemblies will be made at the contract unit price for each assembly installed. This item includes the tee installed on the utility main, all necessary fittings, valve, joint

restraint from the valve to the tee and necessary piping from the tee to the hydrant location with the installation of barrel section to meet finished grade. All piping shall be six-inch (6") DIP PRESSURE CLASS 350 Minimum from the tee to hydrant. The CONTRACTOR shall be responsible to set the hydrant to grade in accordance with the detail shown on the Plans.

- 208 - 214 Furnish and Install 2" – 16" Gate Valves and Boxes: Payment for furnishing and installing valves will be made at the appropriate contract unit price per each valve acceptably installed with joint restraint devices. This item includes the valve, box, concrete pad with I.D. tag and all necessary labor, materials and equipment for installation, including valve stem and valve box extensions. This item also includes the installation of compacted base material below the valve in accordance with the detail shown in the Plans.
- 215 Connect to Existing Water Main: Payment for furnishing and installing materials necessary to connect the newly installed water main to the existing water main / master water meter services will be made at the contract lump sum price. This item includes all labor, equipment and materials for furnishing and installing all necessary pipe, fittings, joint restraint devices, valves, connections, temporary jumpers, protection of existing utilities and facilities, excavation, pipe bedding, dewatering, compaction, shutting down existing water main, assistance notifying customers of temporary shutdown, removal and replacement of grass, sod, shrubs, pavement, driveways, culverts and storm sewers, mailboxes, sidewalks and other surface materials not specifically designated in the Bid, cleanup, sterilization, testing and all other work for a complete installation.
- 216 Air Release Valve: Payment for furnishing and installing air release valves will be made at the appropriate contract unit price per each air release valve installed. This item includes the piping, making pipe connections, valves, pedestal housing, corporation stop and all other work for a complete installation. All air release valves shall conform to the detail shown on the Plans.
- 217 - 218 1" & 2" Poly Tube Water Service: Payment for furnishing and installing poly tube water service (one inch and two inch) will be made at the contract Lump Sum price for all of the services, bacteriologically cleared, operational and in place. This item includes all necessary labor, equipment and materials for Directional bore & open cut installation of the service line, reconnecting to the existing water service meters singles and doubles, new meter boxes, dewatering, compaction, backfilling, sheeting, casing, clamps, harnessing, plugs and caps, adapters, excavation of all material encountered including rock, backfill, clearing and grubbing, sidewalks, mailboxes, culverts, storm sewers, and other surface materials not specifically designated in the Bid, clean-up, sterilization, and tests. All per LCU design standards & details.
- 219 60" Water main Marker (Test Station): Payment for furnishing and installing water main markers will be made at the contract unit price per each water main marker installed along the top of the pipe in accordance with the plans. This item includes all necessary labor, equipment and materials for furnishing and installing water main marker, tracer wire and compaction.

- 220 Bacterial Sample Point: Payment for furnishing and installing bacterial sample points will be made at the contract unit price per each bacterial sample point installed. This item includes all necessary labor, equipment and materials for furnishing and installing the sample point, connection to the water main, pedestal housing and any necessary signs.
- 221 Leak Detection Meter Assembly: Payment for furnishing and installing leak detection meter assembly will be made at the contract unit price per each installed. This item includes all necessary labor, equipment and materials for furnishing and installing a Leak Detection Meter Assembly in accordance with the detail shown on the Plans.
- 222 Remove and Dispose Existing 10" and Smaller Water Main: Payment for removal and disposal of existing 10" and smaller Water Main pipe will be made at the contract unit price per linear foot if required and approved by the COUNTY and the ENGINEER. This item shall include removing from service and removal (and disposal of removed materials) of all existing utility systems called to be removed in the drawings including pipelines, valves, valve boxes, concrete pads, and services. Restoration to pre-construction conditions with sod.
- 223 Remove and Dispose Existing 12" and Larger Water Main: Payment for removal and disposal of existing 12" and larger Water Main pipe will be made at the contract unit price per linear foot if required and approved by the COUNTY and the ENGINEER. This item shall include removing from service and removal (and disposal of removed materials) of all existing utility systems called to be removed in the drawings including pipelines, valves, valve boxes, concrete pads, and services. Restoration to pre-construction conditions with sod.
- 224 Grout Existing Water Main 12" in Diameter or Larger: Payment for furnishing and installing concrete grout will be made per linear foot of existing main grouted. All concrete grout shall conform to the technical specifications, FDOT Specifications and a Grouting Plan approved by the ENGINEER. This item includes all necessary labor, equipment and materials to perform the grouting, grout-fill access points, plugs, caps, blow-offs, and all other items necessary for a complete installation.

END OF SECTION