DATE: May 20, 2021

RE: Bid No. 13-21 ADDENDUM NO. 01

To prospective vendors:

The Utilities Commission is issuing the following addendum. As such it becomes an integral part of the proposal and must be acknowledged by the return of this signed form, with your proposal form, acknowledging receipt of the addendum.

WE ARE ALSO OFFERING A REMOTE CALL-IN FOR LISTENING TO THE BID OPENING. YOU CAN ATTEND BY DIALING 1 (646) 570-1040 PIN: 924-5593

A. Revised Bid Tabulation (pdf format), Bid Document Pages 36-39. Revisions are depicted in red. BIDDERS shall disregard the excel bid tabulation supplied in the original bid documents.

B. Revised Section 01010 – Summary of Work

C. Revised Section 01025 – Measurement and Payment

D. Revised Bid Plan Set (only the sheets that have revisions are attached)
   o A conformed set of plans will be issued for construction to selected Contractor.

E. GIS sketch of existing Sewer Infrastructure - MH 72-02 GIS & Lift Station 73

BIDDERS shall note the following statements when preparing bids for evaluation:

- Section 01010 – Summary of Work Revisions are:
  o Section 1.02 A – Lift Station No. 5
    - Remove all existing internal wet well and valve vault components, fill existing wet well, and remove valve vault.
● Install new wet well, submersible pumps, discharge piping, valves, and appurtenances.

● Relocate existing water service.

● Install new control panel with SCADA system.

● Miscellaneous site improvements including restoration

  ○ Section 1.02 A – Collection System:

    ■ Cut and cap existing Lift Station No. 5 force main on each side of the 8-inch force main.

    ■ Cut and cap existing 6-inch force main from lift station No. 35 to upstream of discharge manhole.

    ■ Remove and/or abandon existing 8-inch gravity sanitary sewer between lift stations No. 35 and No. 5.

    ■ Connect to existing gravity system.

    ■ Install approximately 105 LF of 8-inch SDR 26 PVC sanitary sewer connecting flow from existing manhole at the intersection of Beacon St and Inlet St to new lift station No. 5.

    ■ Install approximately 2,075 LF of 10-inch SDR 26 PVC sanitary sewer connecting flow from existing lift station No. 35 to new lift station No. 5.

    ■ Connect to existing wastewater collection pressure system.

    ■ Install approximately 400 LF of 6-inch DR 18 PVC force main from new lift station No. 5 to existing wastewater collection pressure system.

    ■ Install nine (9) new 4-ft diameter sanitary manholes.

    ■ Install fifty-one (51) new wastewater service connections.

➢ Section 01025 – Measurements and Payments Revisions are:

  ○ Replaced in its entirety – Revisions are marked.
Bid Plan Revisions are:

- Cover Page - Modifications for size of new force main in the Project Description.
- C-101 - Modifications to the legend of the gravity sewer pipe along Surf Street & Addition of legend to cut, cap, and abandon existing force main leaving Lift Station No. 35.
- C-102 - Extension of unpaved road removal and replacement and Addition of one (1) extra concrete driveway to be removed and replaced.
- C-201 - Modifications to Manhole SS-01 callout to list the removal of existing drop connection, Removal of existing drop connection in Manhole SS-01 profile view and Clarification of existing grade based on centerline of roadway (throughout).
- C-202 through C-207 - Update of Notes numbering callouts, Reposition of detail bubbles (C-202), Addition of sewer lateral and cleanout callout (C-203), Correct direction of Manhole SS-05 invert for the existing pipe flowing in from the West (C-204), and Replacement of gate valve for plug valve at the connection to the existing force main (C-207).
- C-301 - Modification of existing manhole callout to show as remaining in service.
- C-303 - Reposition of lift station layout to avoid existing gas utility.

The revised Engineer’s Opinion of Probable Cost is $2,100,000.00.

- The Engineer’s Opinion of Probable Cost does not include the bid alternates cost.

- Armorock polymer manhole is an acceptable manufacturer.
- The Solcon type RVS-DX shall be the soft start motor controller for the Lift Station.

The bid return address is:

Utilities Commission Reception
200 Canal Street
New Smyrna Beach, FL 32168
The awarded Contractor shall be cognizant of the fact that dewatering is anticipated for this project based on previously obtained soil conditions and the depth of proposed infrastructure. The awarded Contractor shall follow all applicable requirements for dewatering as defined in Specification section 02140, and as compensated in Bid Item #6 – Temporary Stormwater Control. Due to a lack of existing stormwater infrastructure within the area, direct discharge may be encumbered. The awarded Contractor shall utilize their means and methods for proper dewatering discharge to meet all applicable Federal, State, Local, and Contract requirements.

**BIDDER questions are in black. COMMISSION responses are in blue.**

1. ITB for this project indicates there is a bid alternate #3 for replacement of MH 72-02 & LS #73 valve vault as attachment 4. I cannot find this attachment on the UCNSB site or on Demandstar. Will this be part of bid?

   For Bid Alternate No. 3, in the original bid documents advertised, Attachment 4A was the Geotech and Attachment 4B was the survey for both locations. The work for Bid Alternate No. 3 is to replace existing infrastructure; therefore, the work does not warrant a design plan. For more clarification, GIS maps are attached (Attachment E) showing the infrastructure to be replaced.

2. Specification Section 16420, par 2.01,A, 1 calls out the brand of Soft-Start motor controller to be used. Please confirm that the UCNSB has standardized on Solcon type RVS-DX soft-start motor controllers and that this brand should be supplied. The Solcon type RVS-DX shall be the soft start motor controller for the Lift Station.
2. Will you please confirm that a chain link fence is required for Lift Station #5 upon completion? I cannot find a reference to the installation of a chain link fence in the bid documents. If those plans currently exist, will you please direct me to where to find them in the bid? In the Bid Set Submittal, it shows a silt fence installed on the East edge of the right-of-way between the existing Lift Station and the roadway (Beacon St.). The silt fence appears to be going across a residential driveway. Please confirm and advise if this is correct?

A fence is not proposed for the reconstructed lift station. Contractor will not block any driveway with silt fence.

3. Please advise whether or not all materials for this project are subject to the American Iron and Steel (AIS) requirements.

No, materials are not subject the American Iron and Steel requirements.

4. Please provide the Engineers Estimate for this project.

$2,100,000.00

5. Please advise whether or not a Field Office is required for this Project.

A Field Office is not required.

6. Please confirm that the City will reimburse the Contractor for the permit fees such as Volusia County Building permit, electrical permit, ROW permit, etc.

Please note, the Utilities Commission, City of New Smyrna Beach (COMMISSION) is a separate entity from the City of New Smyrna Beach. See Bid Item No. 2 measurement and payments for payment of permit fees. The COMMISSION is currently coordinating with the City and will obtain a City ROW permit for this work prior to Construction Notice to Proceed.

7. There is a Spec Section 02730 “Prefabricated Fiberglass wet well liners”. Is this Spec applicable to this project? Is so, please indicate where the fiberglass liners will be installed.
The wet well and manholes SS-09 & SS-10 shall be lined with Agru-Sure Grip Liner.

8. There is a Spec Section 02740 “Prefabricated Fiberglass Manhole liners”. Is this Spec applicable to this project? Is so, please indicate where the fiberglass liners will be installed.

The wet well and manholes SS-09 & SS-10 shall be lined with Agru-Sure Grip Liner.

9. Request for section 09913 Epoxytex Concrete Rehabilitation & Structural Lining, submittals subsection 1.04; A, 3 Mortartec Ceramico to replace Mortartec Silicate. Mortartec Ceramico is recommended on new concrete structures, to prevent out-gassing, resurface prepped concrete, and be applied as thin as 1/16”. Thank you.

The wet well and manholes SS-09 & SS-10 shall be lined with Agru-Sure Grip Liner.

10. Please confirm that the restoration required in connection with the work for Bid Items No. 12, 13, 14, 15, 16, 17 and 21 will be paid for under the corresponding restoration items No. 7, 8, 9, 10 & 11. includes wording that restoration shall be included in these items. However, there are specific bid items for the restoration work required for the work (Bid Items No. 7, 8, 9, 10 & 11)

Under bid items 12, 13, 14, 15, 16, 17 and 21, the restoration referred to in the measurements and payments are for miscellaneous restoration items which include, but are not limited to, mailbox, landscape pavers, fencing, irrigation, etc.

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_A Copy of This Signed Form Must Accompany Your Proposal_

**Acknowledgment of Receipt of Addenda No. 1**

Company_______________________________________

Title___________________________________________

Signature_______________________________________
## PART A: GENERAL REQUIREMENTS & GENERAL CIVIL

<table>
<thead>
<tr>
<th>Item</th>
<th>Item Name &amp; Category</th>
<th>Total Quantity</th>
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<th>Unit Cost</th>
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### EROSION AND SEDIMENTATION CONTROL AND GENERAL CIVIL

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Subtotal Part A: General Requirements & General Civil $
## PART B: WASTEWATER IMPROVEMENTS

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<th>Item</th>
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<td>Connection to Existing 8” Force Main</td>
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<td>Sanitary Sewer Laterals and Cleanout</td>
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## BID TABULATION

### PART B: WASTEWATER IMPROVEMENTS – CONTINUED

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<td>25</td>
<td>Reconfigure Existing Manhole Bench and Channel</td>
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<td>Sanitary Sewer 4' Diameter Manhole (14’-16' Depth)</td>
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### LIFT STATION NO. 5 IMPROVEMENTS

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<tr>
<td>Lift Station No. 5 Replacement</td>
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### LIFT STATION NO. 35 IMPROVEMENTS

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**Subtotal Part B: Wastewater**

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<table>
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<th>Total Bid (Figures)</th>
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BID ALTERNATIVES
(Do Not Include In Total Bid)

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<td>ALT 1</td>
<td>Polymer Concrete Manholes</td>
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<tr>
<td>1</td>
<td>Sanitary Sewer 4’ Diameter Manhole (8’-12’ Depth)</td>
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<td>EA</td>
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<td>3</td>
<td>Sanitary Sewer 4’ Diameter Manhole (8’-12’ Depth)</td>
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<td>ALT 2</td>
<td>Miscellaneous Sewer Improvements (Attachment #3)</td>
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<td>ALT 3</td>
<td>Lift Station No. 73 Improvements (Attachment #4)</td>
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<td>$</td>
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</tbody>
</table>

Should the Commission choose to include the bid alternate work, the bids will be evaluated on total cost of base bid cost plus bid alternate cost.

Upon bid evaluation, the Commission may choose not to include the bid alternate work; therefore, would evaluate bids on base bid cost only.

Bidders must sign bid form.
SECTION 01010
SUMMARY OF WORK

PART 1   GENERAL

1.01 THE REQUIREMENT

A. The Work to be performed shall consist of furnishing parts, tools, equipment, materials, supplies, and manufactured articles, and furnishing all labor, transportation, and services, including but not limited to fuel, power, water, essential communications, and performing all Work or other operations required in strict accordance with the Drawings and these specifications. The Work shall be complete, and all Work, materials, and services not expressly indicated or called for in the Contract Documents which may be necessary for the complete and proper construction of the Work in good faith shall be provided by the Contractor as though originally so indicated, at no increase in cost to the Utilities Commission of New Smyrna Beach (UCNSB).

1.02 THE WORK

A. This Contract is for the construction of modifications to Lift Station Nos. 5 and 35 and associated gravity sewer pipe and force main pipe, as shown on the Drawings and specified herein. Also included are miscellaneous sanitary sewer improvements along 5th Street and 6th Street as depicted in attachment 4. The Work consist of furnishing all labor, equipment, and materials for the construction of the facilities consisting of, but limited to, the following:

Lift Station No. 5

- Remove all existing internal wet well and valve vault components, fill existing wet well, and remove existing valve vault.
- Install new wet well, submersible pumps, discharge piping, valves, and appurtenances.
- Relocate existing water service.
- Install new control panel with SCADA system.
- Miscellaneous site improvements including restoration

Lift Station No. 35

- Remove all existing internal dry well, wet well, and valve vault components, fill existing dry well and wet well, and remove existing valve vault.
- Remove existing control panel, antenna, and water service.
Collection System

- Cut and cap existing Lift Station No. 5 force main on each side of the 8-inch force main.
- Cut and cap existing 6-inch force main from lift station No. 35 to upstream of discharge manhole.
- Remove and/or abandon existing 8-inch gravity sanitary sewer between lift stations No. 35 and No. 5.
- Connect to existing gravity system.
- Install approximately 105 LF of 8-inch SDR 26 PVC sanitary sewer connecting flow from existing manhole at the intersection of Beacon St and Inlet St to new lift station No. 5.
- Install approximately 2,075 LF of 10-inch SDR 26 PVC sanitary sewer connecting flow from existing lift station No. 35 to new lift station No. 5.
- Connect to existing wastewater collection pressure system.
- Install approximately 400 LF of 6-inch DR 18 PVC force main from new lift station No. 5 to existing wastewater collection pressure system.
- Install nine (9) new 4-ft diameter sanitary manholes.
- Install fifty-one (51) new wastewater service connections.

1.03 CONTRACT METHOD

A. The Work hereunder will be constructed under a Contract Agreement between the UCNSB and Contractor, with unit and lump sum prices for the elements of the Work.

1.04 WORK BY OTHERS

A. Interference With Work On Utilities: The Contractors shall cooperate fully with all utility forces of the UCNSB or forces of other public or private agencies engaged in the relocation, altering, or otherwise rearranging of any facilities which interfere with the progress of the Work, and shall schedule the Work so as to minimize interference with said relocation, altering, or other rearranging of facilities.

1.05 SUBCONTRACTOR USE OF SITE

A. The Contractor's use of the site shall be limited to its construction operations, including on-site storage of materials, on-site fabrication facilities, and field offices.

B. The Contractor shall continuously remove from the project excess fill, rock and construction debris regularly and shall remove it within 48 hours when directed to do so by the UCNSB. All removed corrugated metal pipe, storm drain structures, and other demolished items shall be removed from the site or placed in dumpster within 24 hours of removal.

C. The Contractor shall obtain all required municipal or other governmental permits for any offsite storage yards, processing areas, or other operations.
1.06 UCNSB USE OF THE SITE

B. The Utilities Commission of New Smyrna Beach may utilize all or part of the existing facilities during the entire period of construction for the conduct of the UCNSB’s normal operations. The Contractor shall cooperate and coordinate with UCNSB to facilitate the UCNSB’s operations and to minimize interference with the Contractor's operations at the same time. In any event, UCNSB shall be allowed access to the site at all times during the period of construction.
SECTION 01025
MEASUREMENT AND PAYMENT

1.01 GENERAL

A. The Contractor shall receive and accept the compensation provided in the Proposal and the Contract as full payment for furnishing all materials, labor, tools and equipment, for performing all operations necessary to complete the work under the Contract, and also in full payment for all loss or damages arising from the nature of the Work, or from any discrepancy between the actual quantities of work and quantities herein estimated by the Engineer, or from the action of the elements or from any unforeseen difficulties which may be encountered during the prosecution of the Work until the final acceptance by the Owner.

B. The prices stated in the Proposal include all costs and expenses for taxes, labor, equipment, materials, commissions, transportation charges and expenses, patent fees and royalties, labor for handling materials during inspection, together with any and all other costs and expenses for performing and completing the Work as shown on the Drawings and specified herein. The basis of payment for an item at the unit price shown in the Proposal shall be in accordance with the description of that item in this Section.

C. The Contractor's attention is again called to the fact that the quotations for the various items of work are intended to establish a total price for completing the work in its entirety. Should the Contractor think that the cost for any item of work has not been established by the Bid Form or Payment Items, he shall include the cost for that work in some other applicable bid item, so that his proposal for the Project does reflect his total price for completing the Work in its entirety.

1.02 MEASUREMENT

A. The quantities for payment under this Contract shall be determined by actual measurement of the completed items, in place, ready for service and accepted by the Owner, in accordance with the applicable method of measurement therefore contained herein.

1.03 PAYMENT ITEMS

A. The following will clarify the work included for bid items in the Pay Items Sheet:

1. Mobilization and Demobilization: (Bid Item #1)
   a. Measurement for mobilization and demobilization will not be made for payment, and all items shall be included in the Contract lump sum price.
b. Payment for mobilization and demobilization will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for the preparatory work and operations in mobilizing for beginning work on the Project including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site, and for the establishment of field office, building, safety equipment and first aid supplies, sanitary and other facilities, as required by these Specifications, and state and local laws and regulations; and any other pre-construction expense necessary for the start of the Work; the cost of permits and fees, construction schedules, preconstruction video and photographs, project signs, shop drawings, temporary facilities, laydown storage area, construction aids, work associated with contractor support during Owner/Engineer reviews and inspection, re-inspections and any re-work resulting from same, cleaning, project records documents, and operation and maintenance data. The Contractor shall submit invoices substantiating the cost of mobilization and demobilization with each pay request. Ten percent (10%) of the cost for mobilization and demobilization will be withheld until acceptance and final payment.

2. General Requirements, Bonds, Permits: (Bid Item #2)
   a. Measurement for general requirements, bonds and permits will not be made for payment, and all items shall be included in the Contract lump sum price.
   b. Payment for general requirements, bonds and permits will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all insurance requirement costs, the cost of all bonds, permits, and all administrative costs associated with acquiring and maintaining the necessary coverage as described in the Contract Documents. This item will be paid upon each payment request made by the Contractor. The Contractor shall attach with the pay request invoices to substantiate that the Contractor has obtained appropriate insurance and bonds.

3. Maintenance of Traffic: (Bid Item #3)
   a. Measurement for maintenance of traffic will not be made for payment, and all items shall be included in the Contract lump sum price.
   b. Payment for maintenance of traffic will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for labor, materials, permitting, and maintenance of any necessary detour facilities; the providing of necessary facilities for access to residences, businesses, etc., along the project; the preparation of maintenance of traffic plan required by the right-of-way agencies, the furnishing, installing and maintaining of traffic control, barricades,
railings, message boards, warning lights, and other safety devices during construction, the control of dust, providing the services of uniformed off-duty police officers, and other special requirements for the safe and expeditious movements of traffic as called for in the Specifications and shown on the Drawings.

4. Layout Survey, Utility Locates & As-Built Survey: (Bid Item #4)

a. Measurement for layout survey, utility locates and as-built survey as described in Section 01050 will not be made for payment, and all items shall be included in the Contract lump sum price.

b. Payment for layout survey and as-built survey will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all labor, materials, and equipment necessary for providing surveying, layout and field staking, including replacement/restoration of any damaged/removed items, shall be paid in equal monthly amounts based on the scheduled duration of the project from Notice to Proceed to Substantial Completion.

c. Payment for Locating Utilities in Advance of Construction will be made at the contract lump sum price for this item, which price and payment shall be full compensation for all labor, materials, and equipment necessary to physically locate all utilities in the immediate area using non-destructive digging equipment, supplies and personnel experienced in the use of subsurface utility engineering (SUE) to determine precise horizontal and vertical positions of all utilities within the project limits. The Contractor shall perform utility locates at least 21 calendar days in advance of construction in order to request clarification if required from the Engineer. The Engineer will have 7 calendar days to respond. This construction scheduling will allow all necessary decisions to be made prior to the contractor’s crews reaching the work area and having a delay claim and/or a crew mobilization/demobilization claim.

The work includes equipment to paint/mark the approximate position of the public or private underground utility, vacuum excavation equipment that includes air tools (water jet, air lance) to break up the surface and soil. The vacuum excavation equipment involves removing the disturbed soil and temporarily storing it. The exposed underground utility is examined and pertinent data such as size, type, material, and depth is gathered. A marker such as an iron rod and cap or nail and disk are placed next to the test hole and the depth measurement is taken to this point. The stored soil is then returned to the excavated test hole and the surface is returned to its original state; asphalt patch is tamped into the hole when applicable. Markings such as paint and/or lathe and ribbon are left near the hole for future identification. Assume all lines to be located are active lines and service must be maintained at all times possible.
5. Stormwater Pollution Prevention: (Bid Item #5)

   a. Measurement for stormwater pollution prevention as described in Section 01568 will not be made for payment, and all items shall be included in the Contract lump sum price.

   b. Payment for stormwater pollution prevention will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all labor, materials, and equipment necessary for implementing, maintaining, and inspecting erosion and sediment controls, stormwater management, waste collection and disposal, and other practices shown in the Drawings, or as required by the Project NPDES permit. Any costs to repair and/or replace damaged items will be included under the payment for stormwater pollution prevention. Payment will be based on percentage of work completed during the pay period at time of pay application to the nearest 10% complete. The cumulative total shall not exceed the Lump Sum Bid Pay Item amount.

6. Temporary Stormwater Control: (Bid Item #6)

   a. Measurement for temporary stormwater control as described in Section 01568 will not be made for payment, and all items shall be included in the Contract lump sum price.

   b. Payment for temporary stormwater control will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all labor, materials, and equipment for all necessary site dewatering, which includes preventing siltation of receiving waters from dewatering activities, storm water, etc. Installation, maintenance and removal of silt barriers and inlet protection, turbidity barriers, including all labor, materials, equipment, and other incidentals necessary to complete the item, as shown in the Drawings, and specifically, the erosion control plans. Any costs to repair and/or replace damaged items will be included under the payment for temporary stormwater control. Payment will be based on percentage of work completed during the pay period at time of pay application to the nearest 10% complete. The cumulative total shall not exceed the Lump Sum Bid Pay Item amount.

7. Asphalt Pavement and Road/Driveway Restoration: (Bid Items #7-10)

   a. Measurement for asphalt pavement and road/driveway restoration will be based on the dimensions of asphalt pavement, road and driveway installed and accepted, as specified in the Drawings.

   b. Payment for asphalt pavement and road/driveway restoration will be made at the Contract unit price per square yard for the depth and type installed, which price and payment shall be full compensation for all
labor, materials, and equipment; saw cutting (as necessary), excavation, removal and disposal of existing material within specified limits, clean fill material, compaction, stabilized subgrade, base course, super pave asphaltic concrete pavement, milling, overlaying, leveling course, prime and surface courses (as necessary), concrete, formwork and protection from elements (as necessary), expansion joint and joint seals (as necessary), tree trimming, restoration, vegetation removal, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for asphalt pavement and road/driveway restoration.

8. Sod Restoration: (Bid Item #11)
   a. Measurement for sod restoration will be based on the dimensions of sod restoration, as specified in the Drawings.
   b. Payment for sod restoration will be made at the Contract unit price per square yard, which price and payment shall be full compensation for all labor, materials, and equipment necessary as outlined in Section 02822 and Section 02920, including but not limited to the removal and resetting of any private or public signs, markers, mailboxes, fences and other appurtenances, filling and final grading of all areas within the project, final grading of disturbed areas (to provide positive drainage), removal of trees, bushes and other vegetation, sodding, seeding, mulching, hauling, watering, fertilizing, all labor, materials, equipment, and other incidentals necessary to complete the item. Any costs to repair and/or replace damaged items will be included under the payment for sod restoration.

9. 8” Gravity Main: (Bid Item #12)
   a. Measurement for 8” gravity main will be based on the length of pipe installed and accepted, as specified in the Drawings, and as measured along the centerline of the installed pipe.
   b. Payment for 8” gravity main will be made at the Contract unit price per linear foot for the size and type installed, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, sheeting, shoring, trench box, support of adjacent utilities, de-watering, bedding, clean fill material, compaction, tree trimming, restoration, vegetation removal, fittings, restrained joints, sleeves, thrust blocks, thrust collars, supports, water required to fill the main, flushing, pigging, testing (pressure), pipe location wire, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any
costs to repair and/or replace damaged items will be included under the payment for 8” gravity main.

10. 10” Gravity Main: (Bid Item #13-16)

  a. Measurement for 10” gravity main will be based on the length of pipe installed and accepted, as specified in the Drawings, and as measured along the centerline of the installed pipe.

  b. Payment for 10” gravity main will be made at the Contract unit price per linear foot for the size and type installed, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, sheeting, shoring, trench box, support of adjacent utilities, de-watering, bedding, clean fill material, compaction, tree trimming, restoration, vegetation removal, fittings, restrained joints, sleeves, thrust blocks, thrust collars, supports, water required to fill the main, flushing, pigging, testing (pressure), pipe location wire, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for 10” gravity main.

11. 8” Gravity Sewer Main Removal: (Bid Item #17)

  a. Measurement for Removal of Existing 8” Gravity Sewer Main will be based on the length of pipe removed and accepted, as specified in the Drawings, and as measured along the centerline of pipe to removed.

  b. Payment for removal of existing 8” gravity main will be made at the Contract unit price per linear foot for the size and type removed, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, flushing, cutting, associated clean-up and disposal, and restoration of the existing pipe, sheeting, shoring, trench box, support of adjacent utilities, de-watering, clean fill material, compaction, tree trimming, restoration, vegetation removal, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to cut and cap the main to decommission all utilities as specified. Any costs to repair and/or replace damaged items will be included under the payment for cut and cap existing force main.
12. 8” Gravity Pipe Grout Fill and Abandon: (Bid Item #18)

   a. Measurement for 8” Gravity Pipe Grout Fill and Abandon will be based on the length of pipe grout filled, abandoned, and accepted, as specified in the Drawings, and as measured along the centerline of pipe to be grout filled and abandoned.

   b. Payment for pipe grout fill and abandon will be made at the Contract unit price per linear foot for the size and type removed, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, flushing, cutting, capping, restraint, plugs, grouting, associated clean-up and disposal, and restoration of the existing pipe, sheeting, shoring, trench box, support for adjacent utilities, de-watering, clean fill material, compaction, tree trimming, restoration, vegetation removal, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials, and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for pipe grout fill and abandon.

13. 6” Force Main: (Bid Item #19)

   a. Measurement for 6” force main will be based on the length of pipe installed and accepted, as specified in the Drawings, and as measured along the centerline of the installed pipe measured along their centerlines.

   b. Payment for 6” force main will be made at the Contract unit price per linear foot for the size and type installed, which price and payment shall be full compensation for all labor, materials, and equipment; pipe, fittings, excavation, sheeting, shoring, trench box, support of adjacent utilities, de-watering, bedding, clean fill material, compaction, tree trimming, restoration, vegetation removal, restrained joints, sleeves, thrust blocks, thrust collars, restraints, supports, pipe, temporary jumper connection(s), sleeves, bends, and incidental fittings, pipe deflections and transitions, water required to fill the main, flushing, pigging, testing (pressure), pipe location wire, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for 6” force main.
14. Cut and Cap Existing Force Main: (Bid Items #20-21)
   a. Measurement for Cut and Cap Existing Force Main will be based the 
      number units installed and accepted as specified in the Drawings.
   b. Payment for cut and cap existing force main will be made at the 
      Contract unit price per each, which price and payment shall be full 
      compensation for all labor, materials, and equipment; excavation, 
      flushing, cutting, mechanical joint cap, capping, restraint, plugs, 
      associated clean-up and disposal, and restoration of the existing pipe, 
      sheeting, shoring, trench box, support of adjacent utilities, de-watering, 
      clean fill material, compaction, tree trimming, restoration, vegetation 
      removal, removal and replacement of fences, coordination with the 
      utility companies, for any associated clean-up and disposal, and for all 
      equipment, materials and all other work necessary to cut and cap the 
      main to decommission all utilities as specified. Any costs to repair 
      and/or replace damaged items will be included under the payment for 
      cut and cap existing force main.

15. Connect to Existing 8” Force Main: (Bid Item #22)
   a. Measurement for connecting to existing 8” force main will be based on 
      the number of connections installed and accepted as specified in the 
      Drawings.
   b. Payment for connecting to existing 8” force main will be made at the 
      Contract unit price per each, which price and payment shall be full 
      compensation for all labor, materials, and equipment; excavation, 
      sheeting, shoring, trench box, support of adjacent utilities, de-watering, 
      bedding, clean fill material, compaction, tree trimming, restoration, vegetation 
      removal, cutting, restrained joints, connections, pipe 
      supports, removal and replacement of fences, coordination with the 
      utility companies, for any associated clean-up and disposal, and for all 
      equipment, materials and all other work necessary to complete the 
      installation as specified. Any costs to repair and/or replace damaged 
      items will be included under the payment for connecting to existing 8” 
      force main.

16. Sanitary Sewer Lateral and Cleanout: (Bid Item #23)
   a. Measurement for sanitary sewer laterals will be based on the number of 
      units installed and accepted.
   b. Payment for sanitary sewer laterals will be made at the Contract unit 
      price per each, which price and payment shall be full compensation for 
      all labor, materials, and equipment; excavation, sheeting, shoring, 
      trench box, support of adjacent utilities, de-watering, bedding, clean fill 
      material, compaction, tree trimming, restoration, vegetation 
      removal, cutting, restrained joints, connections, pipe 
      supports, removal and replacement of fences, coordination with the 
      utility companies, for any associated clean-up and disposal, and for all 
      equipment, materials and all other work necessary to complete the 
      installation as specified. Any costs to repair and/or replace damaged 
      items will be included under the payment for sanitary sewer laterals.
material, compaction, tree trimming, restoration, vegetation removal, “non-shear” Furnco connection to existing pipe, pvc pipe, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete installation of sewer laterals to the Right-of-Way line, as specified. Any costs to repair and/or replace damaged items will be included under the payment for sanitary sewer laterals.

17. Demolish Existing Sanitary Sewer Manhole: (Bid Item #24)

   a. Measurement for Demolish Existing Sanitary Sewer Manhole will be based on the number of manholes demolished and accepted as specified in the Drawings.

   b. Payment for demolishing existing manholes will be made at the Contract unit price per each, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, restoration, vegetation removal, cutting, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials, and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for demolish existing sanitary sewer manhole.

   c. Payment for Demolish Existing Sanitary Sewer Manhole will be made at the Contract unit price per each, which price and payment shall be full compensation for the all labor, materials, equipment services, coordination with other utility companies, testing, backfill, removal of debris from site, compaction, clearing and grubbing, sod removal, site restoration, cleaning, transportation and appropriate disposal of all items not retained by Owner which generally includes: sewers, fill wet well with clean fill, removal of manhole tops, internal manhole components including sanitary sewer piping, and any additional demolition shown on the Drawings but not mentioned herein. In addition, payment includes material and labor for the abandonment and fill of existing manholes. Payment will be based on percentage of work completed during the pay period at time of pay application to the nearest 10% complete. The cumulative total shall not exceed the Lump Sum Bid Pay Item Amount.

18. Reconfigure Existing Manhole Bench and Channel: (Bid Item #25)

   a. Measurement for Reconfigure Existing Manhole Bench and Channel will be based on the number of manholes demolished and accepted as specified in the Drawings.
b. Payment for reconfigure existing manhole bench and channel will be made at the Contract unit price per each, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, flowable fill and clean fill for abandonment, restoration, vegetation removal, cutting, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials, and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for reconfigure existing manhole bench and channel.

19. Sanitary Sewer 4’ Manholes: (Bid Items #26-28)

a. Measurement for Sanitary Sewer 4’ Manholes will be based on the number of units installed and accepted as specified in the Drawings.

b. Payment for sanitary sewer 4’ manholes will be made at the Contract unit price per each, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, sheeting, shoring, trench box, support of adjacent utilities, de-watering, bedding, clean fill material, stone, compaction, tree trimming, restoration, vegetation removal, manhole frame and cover set to finished grade, pipe external manhole heat shrink seal, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for sanitary sewer 4’ manholes.

20. Lift Station #5 Improvements: (Bid Items #29-30)

a. Measurement for lift station #5 improvements shall be based on satisfactory construction of the new Pump Station complete and ready for continuous operation.

b. Payment for lift station #5 improvements will be made at the Contract lump sum price, which price and payment shall be full compensation for all labor, materials, and equipment; Work includes but is not necessarily limited to the following: pump station improvements including demolition and disposal of existing structures, flowable fill and clean fill for abandonment, bypass operations, wetwell, top slab, hatches, pumps, motors, control panel, SCADA control panel, SCADA pole, cables, rails, valves, water service connection, HDPE discharge pipes and S.S. ball valves, valve vault, pressure piping, valves, and appurtenances, as shown on the Drawings. All coordination with the electric power company, transformer pad, transformers, conduit, materials, equipment, tools, labor and fees to install an electrical service
connection. Installation of all site and adjacent improvements noted on drawings including driveways and driveway connections, fencing with curb and gate, earthwork, suitable clean fill, final grading, rock fill and sodding. All work required to construct, complete start-up testing and deliver a complete operational Pump Station without interruption of service.

21. Lift Station #35 Improvements: (Bid Item #31)

a. Measurement for lift station #35 improvements shall be based on satisfactory demolition of the Pump Station.

b. Payment for Lift Station #35 Improvements will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all the labor, materials, equipment services, testing, backfill, compaction, removal of debris from site, clearing and grubbing, sod removal, site restoration, cleaning, transportation and appropriate disposal of all items not retained by Owner which generally includes: control panels, electrical wiring, piping, sewers, concrete pads, driveways, sidewalks, fences, landscaping, tree/stump removal, tree trimming and disposal, fill wet well with clean fill, removal of wet well tops, internal lift station components including piping and pipe fittings, pumps, manholes, conduits, controls, vents, sanitary sewer piping, force main piping, hose bibs, backflow preventers, and any additional demolition shown on the Drawings but not mentioned herein. In addition, payment includes material and labor for the abandonment and fill of existing wet well. Payment will be based on percentage of work completed during the pay period at time of pay application to the nearest 10% complete. The cumulative total shall not exceed the Lump Sum Bid Pay Item Amount.

22. Polymer Concrete Manholes: (Bid Alternate #1, Items 1 – 3)

a. Measurement for polymer concrete manholes will be based on the number of units installed and accepted as specified in the Drawings.

b. Payment for polymer concrete manholes will be made at the Contract unit price per each, which price and payment shall be full compensation for all labor, materials, and equipment; excavation, sheeting, shoring, trench box, support of adjacent utilities, de-watering, bedding, clean fill material, stone, compaction, tree trimming, restoration, vegetation removal, manhole frame and cover set to finished grade, pipe external manhole heat shrink seal, removal and replacement of fences, coordination with the utility companies, for any associated clean-up and disposal, and for all equipment, materials and all other work necessary to complete the installation as specified. Any costs to repair and/or replace damaged items will be included under the payment for polymer
23. Miscellaneous Sewer Improvements: (Bid Alternate #2)
   a. Measurement for various items covered under Miscellaneous Sewer Improvements will not be made for payment, and all items shall be included in the lump sum price.
   b. Payment for Miscellaneous Sewer Improvements will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all general requirements, mobilization/demobilization, materials, equipment, testing, permits, appurtenances, and work required for the construction of the Miscellaneous Sewer Improvements, excluding bid items listed elsewhere. General requirements shall include all insurance requirements costs, the cost of bonds, and all administrative costs. Mobilization/demobilization shall not be more than five percent (5%) of the alternative bid price. Ten percent of the cost for mobilization will be withheld until substantial completion and site clean-up. The Contractor shall submit a schedule of values for the Work if approved.
   c. Payment for Indemnification: In consideration of the Contractor's Indemnity Agreement as set out in the Contract Documents, Owner specifically agrees to give the Contractor the amount listed in the Bid Form and other good and valuable consideration, receipt of which is acknowledged upon signing of the Agreement.

24. Lift Station No. 73 Improvements: (Bid Alternate #3)
   a. Measurement for various items covered under Lift Station No. 73 Improvements will not be made for payment, and all items shall be included in the lump sum price.
   b. Payment for Lift Station No. 73 Improvements will be made at the Contract lump sum price for the item, which price and payment shall be full compensation for all general requirements, mobilization/demobilization, materials, equipment, testing, permits, appurtenances, and work required for the construction of the Lift Station No. 73 Improvements, excluding bid items listed elsewhere. General requirements shall include all insurance requirements costs, the cost of bonds, and all administrative costs. Mobilization/demobilization shall not be more than five percent (5%) of the alternative bid price. Ten percent of the cost for mobilization will be withheld until substantial completion and site clean-up. The Contractor shall submit a schedule of values for the Work if approved.
c. Payment for Indemnification: In consideration of the Contractor's Indemnity Agreement as set out in the Contract Documents, Owner specifically agrees to give the Contractor the amount listed in the Bid Form and other good and valuable consideration.
BID SET SUBMITTAL

UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA

LIFT STATION NO. 5
RECONSTRUCTION

PREPARED APRIL 2021

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PROJECT DESCRIPTION:

The project involves the replacement and demolition of lift station No.5. Demolition of lift station No. 5 includes the removal of existing sewer connections, installation of new gravity sewer and manholes, and installation of a new force main.
MATCHLINE SEE SHEET C-101

DEMOLITION NOTES:

1. MANHOLE ABANDONMENT SHALL BE ACHIEVED AS FOLLOWS: BREAK UP THE BOTTOM SLAB OF THE STRUCTURE TO PERMIT DRAINAGE. REMOVE THE FIRST 3 OF THE STRUCTURE BELOW GRADE. FILL Voids WITH FLOWABLE FILL AND COMPACT TO GRADE IN 12' LIFTS USING COMMON FILL.

2. LIFT STATION ABANDONMENT SHALL BE ACHIEVED AS FOLLOWS: REMOVE ALL EQUIPMENT, PIPING, VALVES, AND PUMPS FROM THE EXISTING LIFT STATION. REMOVE THE BOTTOM 2' OF THE STRUCTURE TO PERMIT DRAINAGE. REMOVE THE FIRST 3' OF THE STRUCTURE BELOW GRADE. FILL THE REMAINING STRUCTURE WITH FLOWABLE FILL AND COMPACT TO GRADE IN 12' LIFTS USING COMMON FILL.

3. REMOVE EXISTING VALVE VAULT. REMOVE EXISTING ABOVE AND BELOW GRADE DISCHARGE PIPING FROM EXISTING PUMPS TO PROPOSED CONNECTION.

4. REFER TO THE COLLECTION SYSTEM Bypass PLAN, SPECIFICATION 11512, FOR SEQUENCING OF DEMOLITION.

LEGEND

- REMOVE AND REPLACE EXISTING ASPHALT
- REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAY
- REMOVE AND REPLACE EXISTING UNPAVED DRIVEWAY
- REMOVE AND REPLACE EXISTING UNPAVED ROAD
- TREE TO BE REMOVED
- GROUT FILLED AND ABANDONED
- MANHOLE TO BE DEMOLISHED
- MAN TO BE REMOVED
REPLACE 10 LF OF 8" CLAY WITH 8" PVC AND REMOVE DROP CONNECTION

CONNECT TO EXISTING 8" SS USING NON-SHEAR HARD BACK METAL PLATE STAINLESS STEEL COUPLING. SEE SECTION 15100

EXTERIOR DRIVE ALIGNMENT & REMOVE

Sanitary Sewer Lateral and Cleanout (Typ) See Notes 2 Through 6

Notes:
1. REFER TO SHEET C05 FOR DETAILS ON UTILITY SEPARATION REQUIREMENTS
2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD LOCATE ALL EXISTING SEWER LATERALS
3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING LATERALS ALIGNED TO THE CENTERLINE ALIGNMENT
4. PROPOSED SEWER LATERAL ALIGNMENT SHALL BE VERTICALLY 11" OFF THE CENTERLINE ALIGNMENT
5. LOCATIONS OF PROPOSED SEWER LATERALS AND SEPARATION REQUIREMENTS ARE ShOWN IN SHEET C503.
6. CONTRACTOR SHALL INSTALL A CLEAN OUT FOR EACH SEWER ELEVATION ALONG THE PROPERTY/EASEMENT LINE & CONNECT TO EXISTING PLUMBING.

Bar Measures 1 inch, otherwise drawing not to scale

Plan & Profile

SURF STREET: 13+26.84 BEACON STREET-1: 20+00.00

SCALE: HORIZ: 1" = 20'  VERT: 1" = 5'
LIFT STATION ABANDONMENT SHALL BE ACHIEVED AS FOLLOWS: REMOVE ALL EQUIPMENT (PUMP, VALVES, AND PIPES) FROM THE BOTTOM SLAB OF THE STRUCTURE TO PERMIT DRAINAGE. REMOVE THE FIRST 5' OF THE STRUCTURE BELOW GRADE. FILL THE REMAINDER OF THE STRUCTURE WITH FLOWABLE FILL AND COMPACT TO GRADE IN 12" LAY COMMON FILL.

CONTRACTOR TO BE RESPONSIBLE FOR FULLY ASSURING MATERIALS TO BE REMOVED FROM EXISTING STRUCTURE.

PUMPS AND VALVES ARE TO BE SALVAGED AND RETURNED TO THE OWNER.

MANHOLE ABANDONMENT SHALL BE ACHIEVED AS FOLLOWS: REMOVE THE BOTTOM SLAB OF THE STRUCTURE TO PERMIT DRAINAGE. REMOVE THE FIRST 5' OF THE STRUCTURE BELOW GRADE. FILL THE REMAINDER OF THE STRUCTURE WITH FLOWABLE FILL AND COMPACT TO GRADE IN 12" LAY COMMON FILL.

LEGEND

DEMO EXISTING

REMOVE AND REPLACE EXISTING ASPHALT

ASPHALT TO BE DEMOLISHED

GROUT FILLED AND ABANDONED