



1112 Manatee Avenue West
Bradenton, FL 34205
purchasing@mymanatee.org

Solicitation Addendum

Addendum No.: 2
Solicitation No.: 23-TA004919DJ
Project No.: 5163680
Solicitation Title: North County Metal Gravity Sewer Pipe Replacements
Addendum Date: October 27, 2023
Procurement Contact: Dave Janney, Procurement Agent III

IFBC 23-TA004919DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of IFBC 23-TA004919DJ.

The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this IFBC was October 20, 2023.

REPLACE:

SECTION C, BID ATTACHMENTS, BID ATTACHMENT 2, TECHNICAL SPECIFICATIONS, SECTION 01150 MEASURE AND PAYMENT

Replace Bid Attachment 2, Technical Specifications, Section 01150, Measurement and Payment, with Revised Section 01150, Measurement and Payment issued with Addendum No. 2, hereby incorporated into this IFBC.

REPLACE:

SECTION C, BID ATTACHMENTS, BID ATTACHMENT 3, PLANS

Replace Plan Sheets C-3, C-4, C-5, C-6, and D-4 with Revised Plan Sheets C-3, C-4, C-5, C-6, and D-4 issued with this Addendum 2, and available for download as a separate attachment.

ADD:

SECTION C, BID ATTACHMENTS, BID ATTACHMENT 4 – ZABOCS 7012 CUT SHEET

The attached Bid Attachment 4 – ZABOCS 7012 Cut Sheet, is hereby incorporated into the IFBC and hereby incorporated into this IFBC.

QUESTIONS AND RESPONSES:

Q1. Is there an engineers estimate for this project?

R1. The engineer's opinion of costs is \$975,260.00 for the base bid, \$194,205.00 for Alternate 1 - RTU 550, \$209,935.00 for Alternate 2 - RTU 555, \$324,885.00 for Alternate 3 -RTU 553, and \$324,885.00 for Alternate 4 - RTUJ 554.

Q2. Are record drawings required. (no pay item on bid form)?

R2. No record drawings are required.

Q3. Who's responsible for geotechnical testing?

R3. The County will hire a geotechnical testing firm to verify compaction and densities as required for roadway restoration, and general trench compaction.

Q4. RTU 561, plan sheet C3 & C4...manhole 10134 NW DIP to be 18". Bid form states 8" DIP. Please clarify.

R4. Manhole #10134 NW DIP pipe is 8-inch diameter per Manatee County GIS. Sheets C-3 and C-4 have been updated for clarification.

Q5. Is this project currently bidding to the 2020 utility standards? If we need to bid to the new 2023 standards that just came out we will need additional time to review these new standards.

R5. This project will be bid to the 2020 utility standards.

Q6. Sheet C-3 - RTU 561 – LS N1E - Have these gone to the Right-of-way department to get their approval if a full road closure can be done at this location?

R6. Per the general notes on sheet G-2 of the contract plans, The Contractor, prior to construction and restricting any traffic, must obtain any required rights-of-way use permits and an approved traffic control plan through Manatee County.

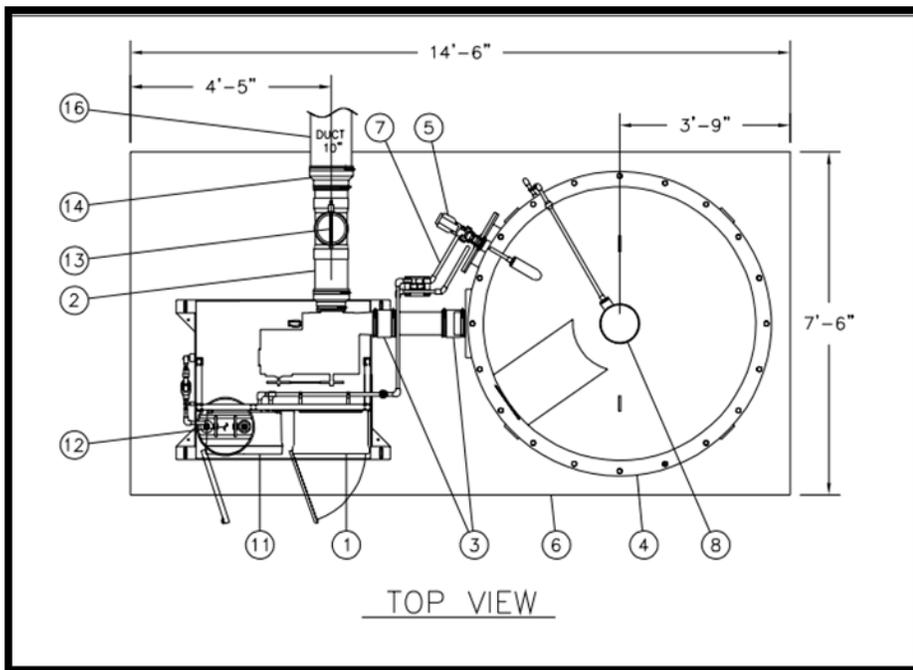
Q7. Sheet C-6 - The temporary and permanent Oder Control Unit is stated to be provided by others. Is there any lead time associated with these two units? Also, it states the contractor is to install them, are their manuals or unit numbers for these units to provide information on how these are to be installed per the manufacturer.

R7. Evoqua will provide the temporary odor control and permanent odor control. Please coordinate the timing with the following:

Danielle Arney
Chemical Product Manager
Evoqua Water Technologies LLC
2650 Tallevast Road
Sarasota, FL 34243
Tel: (941) 313-6597
Danielle.arney@evoqua.com

The temporary skid will be provided by Evoqua and installed by the selected contractor (electrical, water/drain plumbing, air piping) including all connections. The temporary unit skid is shown below.

The permanent unit will be the ZABOCS 7012, see attached cut sheet. For the permanent unit, the concrete slab will be installed by the awarded contractor. The water/drain plumbing, air piping, electrical, and drain will be installed and stubbed out next to the proposed concrete slab by the contractor. Stub out locations to be field verified with Evoqua and Manatee County Utilities. Evoqua will provide the odor control unit, set it on the slab, and make the final connections. For further information please contract Evoqua using the contacts provided.



Q8. Sheet C-9 - The asphalt being removed, do you want asphalt or asphalt millings (similar to 546 on C-1) back at this location?

R8. The asphalt driveway shall be restored with full-depth asphalt pavement as indicated on sheet C-9.

There is a future project coming to rehabilitate RTU 546 on Sheet C-1, asphalt milling restoration was preferred by the County for this station.

Q9. We are a civil subcontractor specializing in excavation and pump stations. We wanted to know if you have a plan holder list we can send our pricing to the Prime Contractors for this contract. We plan to be at the pre-bid meeting.

R9. The County does not have a plan holders list.

NOTE:

Deleted items will be ~~struck through~~, added or modified items will be underlined. All other terms and conditions remain as stated in the IFBC.

INSTRUCTIONS:

Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

END OF ADDENDUM

AUTHORIZED FOR RELEASE

SECTION 01150 MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 SCOPE

- A. The scope of this section of the Contract Documents is to further define the items included in each Bid Item in the Bid Form section of the Contract Documents. Payment will be made based on the specified items included in the description in this section for each bid item.
- B. All contract prices included in the Bid Form section will be full compensation for all shop drawings, working drawings, labor, materials, tools, equipment and incidentals necessary to complete the construction as shown on the Drawings and/or as specified in the Contract Documents to be performed under this Contract. Actual quantities of each item bid on a unit price basis will be determined upon completion of the construction in the manner set up for each item in this section of the Specifications. Payment for all items listed in the Bid Form will constitute full compensation for all work shown and/or specified to be performed under this Contract.

1.02 ESTIMATED QUANTITIES

The quantities shown are approximate and are given only as a basis of calculation upon which the award of the Contract is to be made. The County does not assume any responsibility for the final quantities, nor shall the Contractor claim misunderstanding because of such estimate of quantities. Final payment will be made only for satisfactorily completed quantity of each item.

1.03 WORK OUTSIDE AUTHORIZED LIMITS

No payment will be made for work constructed outside the authorized limits of work.

1.04 MEASUREMENT STANDARDS

Unless otherwise specified for the particular items involved, all measurements of distance shall be taken horizontally or vertically.

1.05 AREA MEASUREMENTS

In the measurement of items to be paid for on the basis of area of finished work, the lengths and/or widths to be used in the calculations shall be the final dimensions measured along the surface of the completed work within the neat lines shown or designated.

1.06 LUMP SUM ITEMS

Where payment for items is shown to be paid for on a lump sum basis, no separate payment will be made for any item of work required to complete the lump sum items. Lump sum contracts shall be complete, tested and fully operable prior to request for final payment. Contractor may be required to provide a break-down of the lump sum totals.

1.07

UNIT PRICE ITEM

Separate payment will be made for the items of work described herein and listed on the Bid Form. Any related work not specifically listed, but required for satisfactory completion of the work shall be considered to be included in the scope of the appropriate listed work items.

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the County until as-built (record) drawings have been submitted and approved by the County.

1. Project signs and photographs.
2. Removal, repair, replacement or relocation of all signs, walls, private irrigation systems and related items.
3. Rubbish and spoil removal.
4. Shop Drawings, Working Drawings.
5. Clearing, grubbing and grading except as hereinafter specified.
6. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
7. Dewatering and disposal of surplus water.
8. Structural fill, backfill, and grading.
9. Replacement of unpaved roadways, and shrubbery plots.
10. Cleanup & miscellaneous work.
11. Foundation and borrow materials, except as hereinafter specified.
12. Testing and placing system in operation.
13. Any material and equipment required to be installed and utilized for the tests.
14. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
15. Maintaining the existing quality of service during construction.
16. Appurtenant work as required for a complete and operable system.
17. Seeding and hydromulching.

BID ITEM NO. 1 - MOBILIZATION

Measurement and payment for this Bid Item shall include full compensation for the required 100 percent (100%) Performance Bond, 100 Percent (100%) Payment Bond, all required insurance for the project and the Contractor's mobilization and demobilization costs as shown in the Bid Form. Mobilization includes, but it not limited to: preparation and movement of personnel, equipment, supplies and incidentals such as safety and sanitary supplies/ facilities.

Payment for mobilization shall not exceed 10 percent (10%) of the total Contract cost unless the Contractor can prove to the County that his actual mobilization cost exceeds 10 percent (10%).

Partial payments for this Bid Item will be made in accordance with the following schedule:

Percent of Original Contract Amount:	Percent Allowable Payment of Mobilization/Demobilization Bid Item Price:
5	25
10	35
25	45
50	50
75	75
100	100

These payments will be subject to the standard retainage provided in the Contract. Payment of the retainage will be made after completion of the work and demobilization.

BID ITEM NO. 2 - MAINTENANCE OF TRAFFIC

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for all maintenance of traffic including all local agencies and municipalities, and all equipment and manpower necessary to comply with the FDOT Design Standards 102 - 600 Series.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM NO. 3 - PRECONSTRUCTION VIDEO

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the preconstruction videos of the existing lift station site conditions. Payment shall represent full compensation for all labor, materials, necessary equipment, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor In accordance with the Contract Documents.

BID ITEM NO. 4 - EROSION AND SEDIMENT CONTROL

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for erosion and sediment control, including permitting if required, coordination with federal, state and local agencies and all equipment and manpower necessary to comply with necessary agencies.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM NO. 5 - GRAVITY SEWER PIPE REPLACEMENT

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the listed diameter gravity sewer pipe replacements at the depth shown in the Contract Drawings and as listed on the Bid Form. Payment shall represent full compensation for all labor, materials and equipment, removal of the existing metal pipe connecting the terminal manhole to the wet well, relocation of existing utilities as required to install the proposed pipe, the listed diameter PVC SDR 26 or PVC C900 DR 25 Pipe, excavation, dewatering, bedding, backfill, compaction, testing, line stops, sheeting, and all other appurtenances and incidentals required or specified to complete the replacement of the gravity sewer main. Additionally, CCTV inspection, recording and testing of the sewer main while County Inspector is present after construction and additional testing per specification section 02623 shall be included in this Bid Item. Pipe deflection shall not deviate by more than 1-inch from the design line. No additional compensation will be made by the County for excavation performed below the bottom of the pipe, for rock removal or materials or for repair of any trench settlement. Class of pipe shall be PVC SDR 26 for gravity sewer pipe 4-12 inches in diameter and PVC C900 DR 25 for gravity main 16-54 inches in diameter, as shown in the contract documents, per specification section 02623, or listed on the Bid Form.

BID ITEM NO. 6 - CONNECTION TO EXISTING LIFT STATION WET WELL

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the proposed connection between the new gravity sewer pipe and the existing lift station wetwell as shown in the Contract Drawings and as listed on the Bid Form. Payment shall represent full compensation for all labor, materials, and equipment, chipping existing concrete, removal of pipe, new mechanical boot connection, coring as necessary, all necessary grout required to seal the wet well connection, wet well protective liner repairs, excavation, dewatering, bedding, backfill, compaction, testing, line stops, sheeting, and all other appurtenances and incidentals required or specified to complete the replacement of the gravity sewer main. No additional compensation will be made by the County for excavation performed below the bottom of the pipe, for rock removal or materials or for repair of any trench settlement.

BID ITEM NO. 7 - CONNECTION TO EXISTING MANHOLE

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the proposed connection between the new gravity sewer pipe and the existing king manhole as shown in the Contract Drawings and as listed on the Bid Form. Payment shall represent full compensation for all labor, materials

and equipment, chipping existing concrete, removal of pipe, removal of manhole bench, manhole bench repair, removal and replacement of manhole top cone as necessary, composite manhole rim and cover per the Manatee County approved product list, new mechanical boot connection, coring as necessary, all necessary grout required to seal the manhole connection, manhole protective liner repairs, excavation, dewatering, bedding, backfill, compaction, testing, line stops, sheeting, and all other appurtenances and incidentals required or specified to complete the replacement of the gravity sewer main. No additional compensation will be made by the County for excavation performed below the bottom of the pipe, for rock removal or materials or for repair of any trench settlement.

BID ITEM NO. 8 - BYPASS PUMPING

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for any bypassing required to remove and replace the gravity sewer per specification section 02720. Payment for all work included, but is not limited to, under this Bid Item shall also represent full compensation in accordance with the lump sum price bid for all labor, flow through plugs, plugs, fittings and appurtenances, excavation, dewatering, bedding, backfill, compaction, testing, equipment, line stops, necessary septage trucks, and the bypassing of the existing lift stations and manholes in order to complete the proposed improvements. All by-pass operations where the anticipated flow rates are **750 GPM** or greater shall require an employee on-site 24/7 at all times (full-time on-site monitoring attended by personnel experienced with the pumps and controls, with demonstrated ability to monitor, turn on & off, and switch between pumps) while the by-pass pump system is in service. Information on project lift stations connected to the existing gravity mains are shown below for informational purpose only:

RTU #546 - LS N1C - 3390 Erie Rd, Parrish, FL 34219 - **1,460 GPM** at 58.3-ft TDH
RTU #561 - LS N1E - 6100 18th St E, Ellenton, FL 34222 - 150 GPM at 120-ft TDH
RTU #551 - LS N4E - 5105 19th St E, Ellenton, FL 34222 - 75 GPM at 135-ft TDH
RTU #554 - LS N7A - 2889 16th Ave E, Palmetto, FL 34221 - 315 GPM at 53-ft TDH
RTU #555 - LS N9A - 450 25th St E, Palmetto, FL 34221 - 240 GPM at 20-ft TDH
RTU #550 - LS N4B - 1211 72nd St E, Palmetto, FL 34221 - **1,080 GPM** at 60-ft TDH
RTU #553 - LS N6B - 715 33rd St W, Palmetto, FL 34221 - 430 GPM at 91-ft TDH
RTU #533 - MLS Tidevue 4 - 1355 41st Ave Dr E, Ellenton, FL 34222 - **1,629 GPM** at 150-ft TDH

Coordinate with Erik Gibson (Lift Station Superintendent) with Manatee County for shutdown of Lift Stations. At least five days' notice needs to be provided to Erik to coordinate shutdown. Phone Number: 941-792-8811 EXT 5377. Connection must also be made outside of peak hours between 9PM and 5AM. Contractor shall make provisions to have an adequate number of septage trucks available to bypass each Lift Station listed above.

Measurement for periodic payments of this lump sum bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

BID ITEM NO. 9 - WATER SERVICE MODIFICATIONS

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for furnishing and installing the buried water service piping, valves, cap/fittings, and appurtenances to includes but is not limited to,

service saddles, valves, hose bib, camlock assembly, back flow prevention assembly, and temporary water service piping to the existing lift station, restoration/abandonment of existing water service as shown on the Contract Drawings. Payment for all aboveground pipe, fittings, valves, and meters that are part of the backflow prevention assembly shall be included in this bid item. Payment shall represent full compensation for all labor, materials, necessary equipment, testing, flushing, disinfection, tie-ins, water service reconnection, and incidentals necessary to complete the work, ready for approval and acceptance by the County.

BID ITEM NO. 10 - ODOR CONTROL RELOCATION

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for installing the temporary and permanent odor control units (supplied by Evoqua) as shown on the Contract Drawings and listed on the Bid Form. Payment shall represent full compensation for all labor, materials including approved primer and sealants, spacers, installing the temporary odor control skid unit (supplied by Evoqua), installation and connection of the temporary PVC SDR 9 water service, temporary PVC SCH80 drain piping and fittings, temporary 10" PVC SCH80 ductwork piping and fittings, and temporary electrical service. Payment shall also represent full compensation for all labor, materials, including installation of the permanent odor control unit (provided by Evoqua), installation and connection of the permanent PVC SDR 9 water service, [permanent PVC SCH 80 water service pipe and fittings](#), [permanent water service PVC SCH 80 ball valve](#), permanent PVC SCH80 drain piping and fittings, p-trap, [permanent 16" PVC SCH80 ductwork piping and fittings](#), [16" PVC SCH80 damper valves as manufactured Spears](#), permanent electrical service, connection existing MH #3654 with mechanical boot and grout, connection to existing wetwell with Fernco sleeve fitting, 316 stainless steel pipe supports and fittings, odor control concrete slab, steel reinforcement, excavation, including rock, dewatering, bedding, backfill, compaction, testing, and equipment required to complete these Bid Items. No additional compensation shall be made for excavation below the bottom of the pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement. No additional compensation shall be made for extensive dewatering or any water treatment services or equipment that may be required for contaminated groundwater.

BID ITEM NO. 11 - 24" RCP CULVERT MODIFICATIONS

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for furnishing and installing the 24" diameter reinforced concrete culvert pipe and mitered end sections per Manatee County Public Works Highway and traffic Standards detail 101.0 and 102.1, as shown on the Contract Drawings. Payment shall represent full compensation for all labor, excavation, including rock as necessary, dewatering, pipe, bedding, materials, backfill, compaction, sheeting, inspection and testing and equipment all other appurtenances and incidentals required or specified to complete the gravity sewer main. No additional compensation will be made by the County for excavation performed below the bottom of the pipe, for rock removal or materials or for repair of any trench settlement.

BID ITEM NO. 12 - ELECTRICAL MODIFICATIONS

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for the proposed electrical modifications as needed. The modifications shall include new disconnect, electric meter, pump

control panels, DFS box, junction box, telemetry system, DFS antennas, removal and reinstallation of site lighting, installation of automatic transfer switches as necessary, and coordination with power utility. Electrical equipment procurement is specified in the Contract Documents. Certain items specified above will be provided by the County. In all cases, the new equipment rack meeting manatee county specifications, material procurement and installation will be the responsibility of the contractor including but not limited to all stainless steel post, Unistrut, Unistrut end covers, hardware, concrete, and anything associated with the equipment racks. Contractor will be responsible for installation of all equipment as specified for a fully operational system. Payment shall represent full compensation for all labor, materials, necessary equipment, programming, testing, conduit, conductors, seals, rough in, pull wire, feeder, equipment racks, installation, start-up, and incidentals necessary to complete the work, ready for approval and acceptance by the County for a fully operational lift station. Measurement for payments of this lump sum bid item will be in accordance with the Contract Documents.

BID ITEM NO. 13 - SITE RESTORATION

Payment for all work included, but is not limited to, under this Bid Item shall represent full compensation in accordance with the lump sum price bid for all restoration required to bring the site to existing conditions in a neat and presentable state. This shall include but not be limited to all concrete restoration, concrete driveway restoration, asphalt driveway restoration, asphalt millings restoration, full road restoration, curb restoration, sodding, landscape restoration, and site fence replacement as shown in the Contract Drawings. Asphalt driveway restoration shall include the equipment for cutting the edges of existing driveways, compacting subgrade, furnishing, and installing the full depth asphalt including base material or asphalt millings as specified and shown in the Contract Drawings. Full road restoration shall be per Contract drawing specifications and limits and include equipment for cutting the edges of existing roadway, compacting subgrade, furnishing, and installing the FDOT certified crushed concrete base, asphaltic concrete, and all incidentals necessary to complete the full roadway restoration as shown on the Contract Drawings and included in Specification 02575, all ready for approval and acceptance by the County. Concrete restoration shall include concrete sidewalk and driveway installed, tested, completed, and approved. Sidewalks and driveways shall meet the requirements of the Manatee County Transportation Design Standards. Driveways shall be repaired to match existing thicknesses or thicknesses specified in the Contract documents, whichever is greater. No payment for restoration of a private driveway within or outside the right-of-way shall be made under this Bid Item. Curb restoration shall include all labor, material, and equipment for removal of existing curbing, furnishing, and placing the same type of curb with expansion joints, compacting subgrade, forming, furnishing, placing the concrete, installing expansion joints, saw cutting, finishing, and all incidentals necessary to complete the work, ready for approval and acceptance by the County. This bid item shall also include furnishing and installing sodding to restore areas impacted by construction to preconstruction conditions, the removal and replacement of the existing site fence, privacy slating, and all incidentals necessary to complete the restoration work, ready for approval and acceptance by the County.

BID ITEM NO. 14 - CONTRACT CONTINGENCY

Payment for all work under this Bid Item shall be made only at the County's discretion. This Bid Item shall not exceed 10% of the Bidders Total Base Bid. The Bidder shall calculate and enter a dollar amount for this Bid Item.

1.08 SEQUENCED BASE BID AND ALTERNATIVES

The construction scope of this project will be limited based on the bid pricing received from contractors. The minimum construction scope is defined as the Base Bid section below.

BASE BID

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-6 and C-7:

- RTU #533 – TIDEVUE 4 MLS
 - Bypass Pumping
 - Open-cut of 24" PVC C900 DR 25 gravity sewer pipe replacement
 - The Connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Odor Control Removal and Reinstallation
 - Site restoration

Additional work for each alternative of the North County Metal Gravity Sewer Pipe Replacements Area will be priced by the contractor in a series of Alternatives numbered 1 through 7 described below. The County may select additional work to be completed based on these alternative prices shown by the contractor.

ALTERNATIVE NO. 1

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-13 and C-14:

- RTU #550 – LS N4B
 - Bypass Pumping
 - Open-cut of 18" PVC C900 DR 25 gravity sewer pipe replacement
 - The Connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Site restoration

ALTERNATIVE NO. 2

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-1 and C-2:

- RTU #546 – LS N1C
 - Bypass Pumping
 - Open-cut of 30" PVC C900 DR 25 gravity sewer pipe replacement
 - The connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Lift Station water service modifications
 - Lift Station electrical modifications
 - Site restoration

ALTERNATIVE NO. 3

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-3 and C-4:

- RTU #561 – LS N1E
 - Bypass Pumping
 - Open-cut of 8" PVC SDR 26 gravity sewer pipe replacement

- The connection of the new gravity sewer main to the existing lift station wetwell
- The connection of the new gravity sewer main to the existing manhole
- Site restoration

ALTERNATIVE NO. 4

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-7 and C-8:

- RTU #551 – LS N4E
 - Bypass Pumping
 - Open-cut of 8" PVC SDR 26 gravity sewer pipe replacement
 - The connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Site restoration

ALTERNATIVE NO. 5

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-15 and C-16:

- RTU #553 – LS N6B
 - Bypass Pumping
 - Open-cut of 12" PVC SDR 26 gravity sewer pipe replacement
 - The connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Lift Station electrical modifications
 - Site restoration

ALTERNATIVE NO. 6

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-9 and C-10:

- RTU #554 – LS N7A
 - Bypass Pumping
 - Open-cut of 18" PVC C900 DR 25 gravity sewer pipe replacement
 - The connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - Lift Station electrical modifications
 - Site restoration

ALTERNATIVE NO. 7

Construction Scope as defined on Sheet G-4 which includes the proposed improvements on sheets C-11 and C-12:

- RTU #555 – LS N9A
 - Bypass Pumping
 - Open-cut of 10" PVC SDR 26 gravity sewer pipe replacement
 - The connection of the new gravity sewer main to the existing lift station wetwell
 - The connection of the new gravity sewer main to the existing manhole
 - 24" RCP Culvert Modifications
 - Site restoration

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

