



Indian River County Purchasing Division

1800 27th Street, B1-303

Vero Beach, FL 32960

Phone (772) 226-1416

Request for Proposals

Project Name: Indian River County Department of Utility Services Labor Contract

RFP #: 2025005

RFP Opening Date: **September 10, 2024**

RFP Opening Time: **2:00 P.M.**

All Proposals must be received by the Purchasing Division, 1800 27th Street, Vero Beach, Florida 32960 prior to the date and time shown above. Late responses will be not be accepted or considered.

The following must be received prior to the RFP Opening Date and Time Above:

1	Marked Original Copy, with all forms signed
5	Printed Copies for Committee
1	Emailed excel file with proposal pricing. Do NOT change the decimal places.
1	Single PDF file of entire submittal (including all forms and price proposal) by email or dropbox/filesshare link emailed to purchasing@indianriver.gov . USB/CD copies are <u>not</u> acceptable, due to our IT security procedures. Acknowledgement of electronic copies will be sent, as received. It is the proposer's responsibility to confirm receipt of electronic files.

Initial screening, ranking, final ranking and negotiations will be in accordance with the criteria specified within this solicitation. The Board of County Commissioners reserves the right to accept or reject any and all submittals and to waive any and all informalities.

Refer All Questions to:

Email: purchasing@indianriver.gov

REQUEST FOR PROPOSALS

Notice is hereby given that the Indian River County Board of County Commissioners is calling for and requesting sealed proposals for: **RFP # 2025005 – Utility Services Labor Contract**

Detailed specifications are available at: www.demandstar.com or by selecting “Current Solicitations” at https://indianriver.gov/services/management___budget/purchasing/index.php.

Deadline for receipt of proposals has been set for **2:00 P.M. on Tuesday, September 10, 2024**. Proposals should be addressed to Purchasing Division, 1800 27th Street, Room B1-301, Vero Beach, Florida 32960. All bids will be opened publicly and read aloud at 2:00 PM. Proposals submitted or received after 2:00 PM on the day specified above, will not be opened or considered.

The Board of County Commissioners reserves the right to cancel the request, accept or reject any and all proposals in whole or in part and to waive any technicality or irregularity.

**PURCHASING MANAGER
INDIAN RIVER COUNTY**

Publish: For Publication in the Indian River Press Journal

Date: Thursday, August 8, 2024

Please furnish Tear Sheet, Affidavit of Publication, and Invoice to:

Indian River County
Purchasing Division
1800 27th Street
Vero Beach, FL 32960
Account: 1125968

Scope of Services

Introduction

The Indian River County Department of Utility Services (IRCDUS) is accepting sealed proposals from qualified Contractors for its Annual Labor Contract. The proposed work generally consists of furnishing all labor, tools, equipment, and, upon IRCDUS request, material to construct, repair, or replace various plant and infrastructure facilities, including water production, transmission, and distribution; wastewater collection, transmission, and reclamation; and reuse water transmission system, at various locations throughout Indian River County. Work will be assigned by IRCDUS to the Contractor by individual Purchase Orders, issued throughout the life of the Contract.

This is an Annual Labor Contract, with an initial term of two (2) years, and a maximum of two (2) renewal terms of one (1) year each subject to vendor acceptance, satisfactory performance, and staff's determination that a renewal would be in the best interest of Indian River County. It is the intent of IRCDUS to enter into agreements with up to three (3) qualified contractors.

Contractor Qualifications

Contractors shall have the necessary organization, experience, capital, and equipment to carry out the provisions of the Contract to the satisfaction of IRCDUS and meet local, state, and federal regulatory requirements. Licenses for this work include a State of Florida General Contractor License and/or a State of Florida Underground Utility and Excavation License. It is the Contractor's responsibility to verify with the County's Building Department that they possess the proper licenses and certifications to perform the work prior to submitting a proposal. Awarded contractors will be required to register with the Indian River County Building Division prior to execution of agreements.

NOTE: IRCDUS may reject proposals from firms that have had adversarial relationships with IRCDUS or have represented entities that have had adversarial relationships with IRCDUS. This includes the firm, employees and financial or legal interests.

Scope of Work

The Contractor shall supply all labor, supervision, equipment, machinery, tools, materials, transportation, and other incidentals required for water, wastewater, and reuse water repairs within the urban service area (USA) of the IRCDUS on an as-needed or on-call basis. All work and materials shall be in accordance with the latest edition of Indian River County Department of Utility Services Water & Wastewater Utility Standards (IRCDUS Standards), unless specified otherwise, or changed by the IRCDUS Project Manager. All products used shall be taken from the IRCDUS Approved Products List (APL) where applicable.

All work will include appurtenant and miscellaneous items for a completed project such as maintaining traffic control, asphalt, concrete and sod restoration, well point dewatering, etc. It is the intent of IRCDUS to obtain complete and working installations under this contract and any items of labor, equipment, and materials that may reasonably be assumed as necessary to accomplish this end shall be supplied whether they are specifically stated herein. Each unit item includes both material and labor costs. However, IRCDUS reserves the right to direct-purchase and furnish all materials for each project.

An IRCDUS Work Plan shall consist of written documentation of the work necessary, per plans, specification and/or as directed by IRCDUS staff. Multiple Work Plans are anticipated throughout the life of the Contract and each

Work Plan will have a unique scope. The Contractor shall provide a quote for the work requested based on the unit prices provided by this contract and receive a purchase order prior to commencement of work. If a Public Construction Bond is required, it must be received, approved and recorded by the County prior to commencement of work.

Specific Duties to be Performed - Work shall include all materials and labor required to repair the water, wastewater, and reuse water repairs at the designated areas as required by the Work Plan. All work is to be performed in accordance with Florida Department of Transportation (FDOT) Standard Specifications for Road and Bridge Construction, latest edition, unless otherwise stated in these specifications.

Material Requirements - All materials shall conform to FDOT and IRCDUS specifications.

Time of Performance for Emergency Work - The Contractor shall be required to report to the site within two (2) hours for the initial review of the situation. The proposal for the required work will be due by noon the following day. Emergency work shall begin within twenty-four (24) hours of the notification of the Emergency Purchase Order Number.

Time of Performance for Non-Emergency Work - The Contractor shall be required to commence services within three (3) calendar days of the Purchase Order with the completion date to be determined in the Work Plan.

Other Work Requirements

- A. The work covered by these specifications comprises, in general, the furnishing of all labor, equipment, materials, and performing all activities necessary to repair, replace or rehabilitate pipes, manholes, inlets, pumps, hatches, rails and other appurtenances at existing wastewater facilities. Typically, work will be performed at pumping stations having a wet well with submersible pumps.
- B. The work also includes the removal and replacement of valves, pumps, pipes, sewer lines, manholes, hatches, vaults, electrical cables, miscellaneous utility line appurtenances, concrete structures and concrete slabs. The prime Contractor or a qualified sub-contractor shall have experience in the repair and installation of wastewater and stormwater utility lines in urban areas and be skilled in confined space entry.
- C. All work shall be in accordance with IRCDUS Standards dated May 2019, or most current version, available at https://indianriver.gov/Document%20Center/Services/Utilities/Utility%20Standards/Utility_Construction_Standards.pdf.
- D. The Contractor shall provide any and all sheeting, shoring and/or dewatering systems necessary to perform the work and to protect existing homes, driveways, walls, landscaping, roads or utilities from damage. Contractor is responsible for controlled excavation and trenching as well as post-construction repair to restore the roads, sidewalks, yards and driveways to pre-construction conditions.
- E. The Contractor shall be responsible for the costs of all labor (including costs for overtime, night and weekend work), materials, equipment, tools, supplies, transportation, delivery, disposal of waste and surplus material, appliances, fuel, power, light, water, sanitary facilities, temporary facilities and all other appurtenances and incidentals necessary for installation or repair work conducted at existing facilities.

- F. The Contractor is responsible for locating all existing underground utilities including irrigation lines, communication cables, electrical power lines, water lines, gravity mains, force mains, drain pipes and other underground utilities. If applicable, the Contractor is responsible for maintaining and submittal of accurate record drawings depicting the location of all existing and new underground utilities installed or encountered during the performance of their work.
- G. The work shall cause minimal disruption and be performed in an expedited, highly coordinated manner by the Contractor. The Contractor must have adequate staffing at all work locations when activities are occurring so that the work proceeds promptly.
- H. Contractor shall be responsible for all maintenance and protection of vehicular and pedestrian traffic and access to existing properties at all times during construction.
- I. The Contractor shall be responsible for control and bypassing of wastewater and stormwater flow by the use of mechanical pumps, piping, tankers or other temporary means as necessary to keep the existing system upstream of the work zone in service during repair or replacement activities. Backup bypass systems, pumps and tankers shall be readily available in the event of failure of the Contractors primary bypass methods or systems.
- J. The Contractor shall also be responsible for furnishing, providing, implementing and installing and all MOT signage and barricades that conform to all County and FDOT standards. The Contractor shall prepare and submit MOT plans to the County for approval and obtain permits for work in the roadway from the County.
- K. Except as specifically provided for in the Proposal Pricing Form, the Contractor shall provide and pay for:
 - a. Labor, materials, tools, construction equipment, and machinery.
 - b. Water and utilities required for construction.
 - c. All City (if applicable), County and/or State right of way permits. The Indian River County fee for a right-of-way permit is \$800.
 - d. Other facilities and services necessary for proper execution and completion of the work.
- L. When conflict exists between these specifications and the Indian River County Department of Utilities Services Specifications, the current IRCDUS Standards will govern.
- M. Pricing submitted in Sections A, B, C, and E are **inclusive** of all labor, equipment, and materials necessary.

Specifications

General

Preconstruction Conference/Project Progress Meeting:

Before the Contractor starts the work, a conference will be held to establish procedures for handling shop drawings and other submittals, and to establish procedures for processing Applications for Payment, to establish work schedule and any related facility shut-downs, and to establish a working understanding among the parties as to the scope of work for each party.

At each project progress meeting, the Contractor shall submit a progress schedule and phasing plan including all activities of subcontractors, equipment vendors and suppliers. An updated schedule shall be submitted with each pay request.

Work Site and Materials Storage:

- A. The Contractor may use only the roads and/or easements designated by the Owner for access to the work locations. The Contractor shall be responsible for maintaining, protecting and restoring the routes to the satisfaction of the Owner.
- B. The Contractor, at his own expense, shall provide space for storage of materials and equipment.
- C. Suitable storage facilities for materials shall be furnished by the Contractor. All materials, supplies and equipment intended for use in the work shall be stored properly by the Contractor to prevent damage from exposure to the elements, contamination by foreign substances, vandalism or other causes. The Owner's Representative will refuse to accept, or sample for testing, any materials, supplies or equipment that are damaged or have been improperly stored, as determined by the Owner's Representative.
- D. Materials found unfit for use shall not be incorporated in the work and shall immediately be removed from the construction or storage site. Pipe and structures strung out along the line of construction will not be allowed unless the materials will be installed within one day from the time of unloading, or the equipment is set in a manner that protects them from damage and prevents the creation of a public safety hazard. No payment will be made by Owner for unfit materials.

Work Area and Protection of Public & Private Property:

- A. The Contractor shall protect from damage all property along the line of the work, and in the vicinity of the work. Wherever such property is damaged due to the activities of the Contractor, it shall be restored to its original condition within a reasonable amount of time by the Contractor, as time is of the essence, and at no cost to the Owner.
- B. Unless indicated otherwise, all shrubbery, paved streets and walks, fences and walls, adjacent structures and equipment will be fully protected against damage during each stage of the project. Any damage by the Contractor will be fully restored to original condition.
- C. Where pavement, trees, shrubbery, fences or other property or surface structures not designated as pay items, have been damaged, removed or disturbed by the Contractor, whether deliberately or through failure to carry out the requirements of the Contract Documents (as defined in the agreement), state laws, municipal or County ordinances or the specific direction of the Owner's Representative, or through failure to employ usual and reasonable safeguards, such property and surface structures will be replaced or repaired at the expense of the Contractor to a condition equal to that before Work began within a time frame approved by the Owner.
- D. In case of failure on the part of the Contractor to restore such property, or make good such damage for injury, the Owner may, after 48-hours' notice to the Contractor, proceed to repair, rebuild or otherwise restore such property as may be deemed necessary and the cost thereof will be deducted from any monies due or which may become due the Contractor under this contract.
- E. The Contractor shall keep the construction site free of rubbish and other materials and restore to their original conditions those portions of the site not designated for alteration. Clean up and restoration shall

be accomplished on a continuing basis throughout the contract period and in such a manner as to maintain a minimum of nuisance and interference to residents in the vicinity of the work.

- F. The Contractor shall maintain the site of the work in a neat condition. The Contractor shall remove all excess materials, excess excavated materials, and all debris resulting from their operations within a time frame approved by the Owner's Representative.

Public Safety and Convenience:

The Contractor shall at all times so conduct their work as to ensure the least possible obstruction to traffic, or inconvenience to the general public and residents in the vicinity of the work. No road or street shall be closed to the public, except with the permission of the Owner's Representative. Fire hydrants on or adjacent to the work shall be kept accessible. Provisions shall be made by the Contractor to ensure public access to sidewalks, bus stops as well as the proper functioning of all gutters, sewer inlets, drainage ditches, and irrigation ditches.

Existing Utilities and Structures:

- A. Although information on existing utilities and facilities will be provided to the Contractor by the Owner's Representative and other records, guaranties are not made that all existing facilities are shown or that those shown are entirely accurate. The Contractor will assure himself of any utilities, structures or facilities prior to performing any Work. Prior to the start of Work, the Contractor will request the Owner to advise him of the location of their facilities in the vicinity and will notify the Owner of any deviation. The Contractor will assume liability for damages sustained or costs incurred because of his operations in the vicinity of existing utilities or structures. The Contractor will be solely responsible for the protection and maintenance of existing utilities to provide uninterrupted service to commercial and residential customers.
- B. During excavation at the project site, the possibility exists of the Contractor encountering various utilities (water, chemical, electrical, gas, or other). Existing utilities and facilities shall be located prior to commencement of each task. It shall be the Contractor's responsibility to contact utility companies and call SUNSHINE at (800) 432-4770 or 811 at least 72 hours before starting construction so maintenance personnel can locate and protect facilities, if required by the utility company. The Contractor shall exercise extreme care before and during excavation to locate and flag these lines so as to avoid damage to the existing lines. Should damage occur to an existing line, the Contractor shall repair the line at no cost to the Owner.
- C. It is the responsibility of the Contractor to ensure that all utility or other poles, the stability of which may be endangered by the close proximity of excavation, are temporarily stayed in position while the work proceeds in the vicinity of the pole and that the utility or other companies concerned be given reasonable advance notice of any such excavation by the Contractor.

Preserving Water Quality:

- A. The Contractor will exercise extreme care to minimize degradation of water quality at the site. All necessary provisions will be taken to ensure compliance with the water quality standards of the State of Florida. Contractor will be responsible for any mitigation necessary to correct the issue.
- B. The Contractor will take steps to collect and dispose of all sewage that leaks and/or spills during the performance of this contract. Any leakage or spillage will be cleaned up to the satisfaction of the local regulatory agencies and the Florida Department of Environmental Protection.

Construction Water:

- A. The Contractor will be responsible for making application for hydrant meters with backflow preventers. The Owner will install necessary connections and backflow preventers at locations needed by the Contractor. Maintenance of such is the responsibility of the Contractor. All associated fees will be paid from the appropriate pay item for "Allowance".
- B. Construction water will be paid for by the Contractor. In an event that damage to these facilities occurs, the Contractor will be responsible for all costs associated with their replacement at the County's standard rate.

Sanitary Facilities:

If necessary, the Contractor shall provide temporary restroom facilities for field crews. Location of such facilities will be subject to the approval of the Owner. Existing County/Residence facilities are not available for use by the Contractor.

Substitutions/Approved Equal:

- A. For substitution of products in place of those specified, Contractor must submit shop drawings and technical data for consideration of "an approved equal" by the Owner, except specified items followed by the words "no substitution". Substitutions will only be considered after award and per Work Plan. Proposers are instructed to submit only on the items as specified.
- B. Submit three copies of the request for substitution. Include in the request:
 - i. Complete Data substantiating compliance of proposed substitution with Contract Documents.
 - ii. For products:
 - Product Identification, including manufacturer's name and address
 - Manufacturer's literature
 - Product description
 - Performance and test data
 - Reference standards
 - Samples
 - Name and address of similar projects on which product was used, and the date of installation.
 - iii. For Construction methods:
 - Detailed description of proposed method
 - Drawings illustrating methods
 - iv. Itemized comparison of proposed substitution with product or method specified

Assemblies or Units:

Where the Contractor is required to furnish and install an assembly or unit, the Contractor shall furnish all component parts as required by the manufacturer of the unit.

Test:

Tests and analyses (backfill density, concrete, bacteriological, pressure and leakage, etc.) are to be performed in accordance with the current edition of the IRCDUS Standards. Owner's Representative shall be present at each test.

Removal of all Temporary Facilities & Restoration of Site:

Upon completion of the work, it shall be the responsibility of the Contractor to remove all temporary facilities including, but not limited to, pumps, fences, signs, temporary power, materials or other debris. The site, adjacent properties, and Owner facilities shall be restored to their original condition.

Salvaged Material:

The Owner will select the material and items of equipment that shall remain the property of the Owner and which shall be stored where directed.

Any existing equipment or material which is removed or replaced as a result of construction under this project may be designated as salvage by the Owner and, if so, shall be removed, cleaned, and delivered to the site in a protected place specified by the Owner. Any equipment or material not worthy of salvaging, as directed by the Owner, shall be disposed of by the Contractor at a suitable location. Upon request of the Owner's Representative, Contractor shall submit evidence of proper disposal.

Limitations on Owner's Representative Responsibilities:

- A. The Owner's Representative will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and to determine, in general, if the work is proceeding in accordance with the Contract Documents.
- B. The Owner's Representative's efforts will be directed toward providing, for the Owner, a greater degree of confidence that the completed work will conform to current edition of the IRCDUS Standards. On the basis of such visits and on-site observations, the Owner's Representative will keep the Owner informed of the progress of the work and will endeavor to guard the Owner against defects and deficiencies in the work.
- C. Neither the Owner's Representative's authority to act under these specifications or elsewhere in other documents nor any decision made by the Owner's Representative in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the Owner's Representative to the Contractor, any sub-Contractor, any manufacturer, fabricator, supplier or distributor, or any of their agents or employees or any other person performing any of the work.
- D. The Owner's Representative shall not be responsible to the Contractor's means, methods, techniques, sequences or procedures of construction, or safety precautions and programs incident thereto, and the Owner's Representative shall not be responsible for the Contractor's failure to perform the work in accordance with the IRCDUS Standards.
- E. The Owner's Representative shall not be responsible for the acts or omissions of the Contractor or of any sub-Contractors, or of any other persons at the site or otherwise performing any of the work.

Warranty:

- A. The Contractor shall be responsible for defects in materials (including latent defects) or workmanship for a period of one year after the date of final acceptance of the project by the Owner. Such defects include, but are not limited to, any settlement noted in backfill, fill, or in structures built over the backfill or fill during the warranty period of one year after completion of work per lift station and will be considered to be caused by improper compaction methods and shall be corrected by the Contractor at no cost to the Owner. Structures damaged by settlement shall be restored to their original condition by the Contractor

at no cost to the Owner.

- B. The Contractor shall furnish factory warranties on all equipment furnished for the performance and completion of the project against defects in materials and/or workmanship. The factory warranty (if applicable) shall become effective on the date of delivery and acceptance by the Owner. In the event of any defects in materials or workmanship, the Contractor shall replace said equipment at no cost to the Owner.

Manufacturer's Installation Instructions:

- A. When current edition of the IRCDUS Standards require that installation of work shall comply with manufacturer's printed instructions, the Contractor shall obtain and distribute copies of such instructions to the Owner.
- B. Maintain one complete set of instructions at the job site during installation and until completion.
- C. Handle, install, connect, clean, condition, and adjust products in accordance with such instructions and in conformance with specified requirements. Should job conditions or specified requirements conflict with manufacturer's instructions, consult with Owner's Representative for further instructions.
- D. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by current edition of the IRCDUS Standards, or approved in writing by manufacturer and the Owner.
- E. Accurately locate and align with other work, and anchor equipment and materials securely in place except as required for proper movement and performance.
- F. Clean and protect exposed surfaces as necessary to ensure freedom from damage and deterioration at time of acceptance.

Non-Payment for Rejected Work

Contractor shall replace all work, or portions of the Work, which do not conform to the IRCDUS Standards, unless specifically approved otherwise by the Owner. Payment will not be made for the following:

- Products wasted or disposed of in a manner that is not acceptable.
- Products determined as unacceptable before or after placement.
- Products not completely unloaded from the transporting vehicle.
- Products placed beyond the lines and levels of the required work.
- Products remaining on hand after completion of the work.
- Loading, hauling and disposing of rejected products.
- Used products and materials.

Permit & Fees Allowance

Owner shall reimburse Contractor for the actual permit and other fees charged by local governmental agencies necessary for the work. The amount to be paid under this allowance includes recording fees, sign permits, building and right of way permits and inspection fees, except for re-inspection fees resulting from non-compliant work.

Specific Work – Section A

Bonds Requirements:

Payment under this section shall be on a lump sum (LS) basis, at the actual cost of the Public Construction Bond. No markup shall be made to the cost of bonds or insurance. Public Construction Bonds will be required for each work order/purchase order issued for more than \$200,000.

Trench Safety Compliance

Payment under this Section shall be on a per linear foot (LF) basis for trenching and per square foot (SF) basis for any required shoring, and shall include providing all OSHA required trench safety equipment, training and methods employed during the course of the project.

Traffic Control (By type of roadway & lane closures)

Payment under this Section shall be on a per linear foot (LF) basis which shall include full compensation for all work related to the maintenance of traffic per day of work and/or construction during which traffic control is required. Work includes furnishing all materials, labor, and equipment required to install, maintain, and remove any and all required traffic control measures to control the flow of traffic through the work area within the public rights of way during the various phases of the project. Preparation and submittal of any MOT plans to required agencies as well as coordination with those parties shall also be included in this item. All work shall be in accordance with applicable local, state, and federal requirements.

Erosion Control

The quantity to be paid for under this Section shall be per linear foot (LF). Provide positive means of erosion control such as shallow ditches around construction to carry off surface water. Erosion control measures, such as siltation basins, hay check dams, mulching, jute netting and other equivalent techniques, shall be used as appropriate. Flow of surface water into excavated areas shall be prevented. Ditches around construction areas shall also be used to carry away water resulting from dewatering of excavated areas. At the completion of the work, ditches shall be backfilled, and the ground surface restored to its original condition.

Video Documentation of Pre-& Post Conditions:

Payment under this Section shall be on a per linear foot (LF) basis for performing and providing video documentation of the existing site conditions, buildings, landscaping and above ground features and utilities, as well as video documentation of post-construction site conditions, as directed by the Owner.

Force Main Epoxy Lined Fittings (By Diameter Pipe and Type of Material)

The quantity to be paid for under this Section shall be per each (EA) force main fitting installed, complete and accepted and shall include, but not be limited to, furnishing all materials, labor, and equipment required to install force main fittings per the IRCUDS Standards including joint restraint, layout, identification painting, connection to the existing force main, and any other items required for a complete and functional system.

Connect to Existing Valve, Fitting or Sewer Main (By Diameter Pipe)

The quantity to be paid for under this Section shall be per each (EA) connection to an existing force or gravity main and shall be full compensation for furnishing all materials, labor, and equipment required to remove all existing surface material and protruding objects, excavation of any type of material including rock, hauling and legal off-site disposal of debris, temporary shoring, existing utility support, dewatering, removal of fittings, cutting existing pipe, installation of sleeves, wyes, restraints on existing joints, and includes the plug valve, valve box, housekeeping pad as may be required to connect the proposed force main to the existing force

main. Also included is disposal of wastewater, pressure testing, trench backfilling, compaction, density testing, and any other items required for a complete and functional system.

Connect to Existing Sanitary Structure (By Diameter & Depth)

The quantity to be paid for under this Section shall be per each (EA) connection to an existing structure and shall be full compensation for furnishing all materials, labor, and equipment including excavation, dewatering, shoring, coring, cutting, adjusting, connecting, removing, and all other necessary activities required to connect the proposed sewer main improvements to the existing sewer structure pipes as directed in the Utilities Standards or by the Owner's Representative.

Wet Tap, Sleeve & Valve (By Diameter Pipe & Depth)

The quantity to be paid for under this Section shall be per each (EA) tapping sleeve and valve installed, complete and accepted, and shall include but not be limited to, furnishing all materials, labor, and equipment required to remove all existing surface material and protruding objects, excavation of any type of material including rock, hauling and legal off-site disposal of debris, temporary shoring, existing utility support, dewatering, installation of the tapping sleeve and gate valve, valve box, housekeeping pad as may be required, pressure testing, trench backfilling, compaction, density testing, and any other items required for a complete and functional system.

Restrain New or Existing Force main (By Diameter Pipe)

The quantity to be paid for under this Section shall be per each (EA) joint of existing force main requiring joint restraint, complete and accepted and shall include, but not be limited to, furnishing all materials, labor, and equipment required to remove all existing surface material and protruding objects, excavation of any type of material including rock, legal off-site disposal of debris, temporary shoring, existing utility support, dewatering, installation of bell restraint fitting(s) as required, trench backfilling, compaction, density testing, asphalt, concrete, or other surface restoration as required and any other items required for a complete and functional system.

Eccentric Plug Valve Below Ground (By Diameter)

The quantity to be paid for under this Section shall be per each (EA) eccentric plug valve installed, complete and accepted and shall include, but not be limited to, furnishing all materials, labor, and equipment required to install plug valve as shown on the IRCUDS Standards including the valve, valve box, riser extensions, restrained joints, materials, layout, and any other items required for a complete and functional valve.

Removal of Existing Pipe (By Diameter and Depth Bury)

The quantity to be paid for under this Section shall be per linear foot (LF) of pipe removed and shall include, but not be limited to, furnishing all materials, labor, and equipment required to remove all existing surface material and protruding objects, excavation of any type of material including rock, temporary shoring, dewatering, removal of pipe, hauling and legal off-site disposal of debris, trench backfilling, compaction, density testing, support of existing aboveground and below ground improvements to remain and be protected, and any other items required for a complete and functional system.

Removal of Manholes, Inlets, or Vaults. (By Size & Depth of Bury)

The quantity to be paid for under this Section shall be per each (EA) existing structure removed, complete and accepted and shall include, but not be limited to, furnishing all materials, labor, and equipment required to remove all existing surface material and protruding objects, excavation of any type of material including rock, temporary shoring, dewatering, removal of existing structures, hauling and legal off-site disposal of debris,

trench backfilling, compaction, density testing, including support of existing aboveground and below ground improvements to remain and be protected, and any other items required for a complete and functional system.

Specific Work – Group B – Restoration

Subgrade, Base, and Asphalt Removal & Repair

This item shall be for all asphalt and base repair for the installation, removal, restraint or access to pipes, fittings, structures, and valves, except for any work designated to be paid for separately or to be specifically included in the costs of other work under the Contract. The Unit Price shall include full compensation for all labor, materials, and equipment necessary to perform base and asphalt trench removal and repair and shall include, but not be limited to, saw cutting, excavation, base placement, grading and compaction, density testing, asphalt placement and specifications with IRCBUS Standards, as applicable, as well as installation of temporary or permanent roadway and parking lot striping, as applicable.

Open Cut Pavement Repair

The quantity to be paid for under this Section shall be per square yard (SY) and shall include compensation for multiple mobilizations, labor, materials, and equipment required to remove, replace and repair the pavement over the pipe trench, including straight saw cuts, tack coats and two 1" lifts of S-III asphaltic concrete. The contract unit price shall also include other miscellaneous work required to complete the work in accordance with County specifications.

Asphaltic Concrete Pavement (By Thickness) Type S-1, S-3 or Superpave)

The quantity to be paid for under this Section shall be per square yard (SY) of asphalt surface course and shall include all labor, material, and equipment required to construct a final surface course. The unit prices shall include compensation for multiple mobilizations, labor, materials, and equipment required to construct the new asphalt concrete surface courses. The contract unit price shall also include other miscellaneous work required to complete the work in accordance with Florida Department of Transportation Standard Specifications for Road and Bridge Construction, and the latest County specifications. This unit price shall also include all necessary labor, materials, and equipment to adjust the valve boxes, manholes, rims, inlets, or other fixtures to final grade, transitions to existing pavement, milling existing asphalt at tie-ins, tack coating, compaction, rolling, brooming, saw cutting and any other work required to complete the work.

Concrete Curb

The quantity to be paid for under this Section shall be on a linear foot (LF) basis for the concrete curb installed and accepted by the County. The contract unit price shall include all labor, materials, and equipment necessary to furnish and prepare the 12-inch-deep sub-grade (LBR 100) curb pad and install the concrete curbs per County specifications. The contract unit price shall also include other miscellaneous work required to complete the work in accordance with Florida Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition and Indian River County specifications.

Flowable Fill

The quantity to be paid for under this Section shall be on a cubic yard (CY) basis of placed flowable fill. The Contractor's unit price shall include full compensation for all labor, materials and equipment required for the placement of flowable fill per IRCBUS Standards.

Import Backfill

The quantity to be paid for under this Section shall be on a loose volume cubic yard (CY) basis and shall include, but not be limited to purchasing, testing, transporting, spreading, grading and compacting clean imported fill material. Work includes laboratory sampling of the import material to verify compliance with specifications and in-place density testing after placement. No payment will be made for import fill placed outside the lines and grades.

Sod – Bahia

Method of Measurement: The quantity to be paid for under this Section shall be on a square yard (SY) basis. The unit price bid for this item shall be full compensation for all labor, materials and equipment required for soil preparation and sod placement per County specifications. The unit price bid for this item shall include all watering for planting and establishment of the sod during the contract and guarantee period.

Sod – Floratam

Method of Measurement: The quantity to be paid for under this Section shall be on a square yard (SY) basis. The unit price bid for this item shall be full compensation for all labor, materials and equipment required for soil preparation and sod placement in county Specifications. The unit price bid for this item shall include all watering for planting and establishment of the sod during the contract and guarantee period.

Specific Work – Section C HDPE and HDD Boring

High Density Polyethylene Pipe and Fittings

The Contractor shall furnish all labor, materials, equipment, and incidentals required to install High Density Polyethylene (HDPE) pressure pipe, fittings, and appurtenances per IRCDUS Standards.

Specific Work – Section D Time and Materials

This section is included to incorporate time and materials rates that fall outside the other specifically-priced items of work in sections A, B, D and E, as all labor, materials, and equipment are to be included in those unit prices.

Equipment, general

The quantity to be paid shall be per HOUR (HR) of equipment operation. The unit price shall include transport to and from the site, an operator, fuel, lubricants, materials, preparation and other miscellaneous work or materials required for the equipment to provide and perform its support operation.

Dump Truck, Wheel Loader, Other Heavy Equipment (By Type)

Method of Measurement: The quantity to be paid for under this Section shall be per hour (HR) of on-site motorized equipment operation. The unit price shall include transport to and from the site, a skilled operator, fuel, lubricants, filters, materials, preparation and other miscellaneous work or materials required for the vehicle to provide and perform its support operation.

Work Crews (By Type & Number of Personnel)

Method of Measurement: The quantity to be paid for under this Section shall be per hour (HR) of on-site work crew production. The unit price shall include transport to and from the site, hand tools, small power tools, fuel, lubricants, filters, materials, preparation and other miscellaneous work or materials required for the

vehicle to provide and perform its support operation. Overtime applies only after completion of 40 hours in a seven-day period.

Specific Work – Section E Lift Station

Sheet Piling

The quantity to be paid for under this Section shall be per linear foot (LF) length of shoring measured horizontally from the start of shoring to the end, driven and installed to the depths for proper safety. The price for this item shall be full compensation of labor, equipment, and materials for all work required to furnish and install the shoring and sheeting and other approved trench safety measures and appurtenances. All shoring and sheeting calculations and drawings must be signed and sealed by a Professional Engineer registered in the State of Florida at no additional cost to the Owner. Also included is removal of the shoring upon completion of trenching activities.

Bypass Pumping of Wastewater (By Pump Size)

The quantity to be paid for under this Section shall be at a Unit Price per day (DA) unit cost for every day of operation. The price shall include full compensation for all labor, materials and equipment for providing a bypass pumping and piping system to maintain uninterrupted wastewater systems' service or temporary pumps, pipes and/or pumper trucks needed to support wastewater collection and/or transmission main construction or modifications. The Contractor's price shall include full compensation to maintain upstream wastewater flow during construction of the improvements.

Pressure Washing

The quantity to be paid for under this Section shall be on a square foot basis and shall include, but not be limited to, furnishing all materials, labor, and equipment required to pressure wash work zone, staging areas, sidewalks, curbs, driveways, including debris removal other restoration and/or clean up required for a complete project except for any work designated to be paid for separately or to be specifically included in the costs of other work under the Contract.

Demolition & Renovation

- A. Contractor shall furnish all labor, materials, equipment, and incidentals required for demolition, renovation, removal and disposal work, including demolition and removal of existing materials, equipment, or work necessary to install the new work and as specified herein. Demolition includes structural concrete, foundations, walls, doors, windows, structural steel, metals, roofs, masonry, attachments, appurtenances, piping, electrical and mechanical equipment, paving, curbs, walks, fencing, and other existing facilities.
- B. The Owner and the Owner's Representative assume no responsibility for the actual condition of any structures to be demolished or modified.
- C. The Contractor shall determine the applicability and file notifications to the appropriate agencies with regard to demolition work that requires clearances for asbestos containing material (ACMs) handling or any other materials requiring special management. It should be noted that, in any demolition event, notifications must be filed in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAPS) as described in 40 CFR Part 61, Subpart M and Chapter 62-204 of the Florida Administrative Code (FAC).

- D. No building or structure, or any part thereof, shall be demolished until an application has been filed by the Contractor with the appropriate Building Department and a permit issued. Any fee for this permit shall be the Contractor's responsibility.

Removal of Existing Process Equipment, Piping & Appurtenances

- A. Subject to the constraints of maintaining the existing facilities in operation and prior to demolition, existing process equipment, non-buried valving, piping and appurtenances not necessary for the operation of the new facilities shall be removed.
- B. All equipment, piping and appurtenances shall be cleaned, flushed and drained. Equipment to be retained by the Owner, as previously specified, shall be dismantled sufficiently and thoroughly cleaned and drained. All valves shall be left open. All discontinued piping shall be capped and sleeves and openings remaining after removal of the existing equipment, piping, and appurtenances shall be plugged and sealed as directed by the Owner's Representative.

Obstructions

This item refers to obstructions which may be removed and do not require replacement. Remove obstructions within the trench area or adjacent thereto without additional compensation. Obstructions of such include, but are not limited to, tree roots, stumps, abandoned piling, buildings and concrete structures, logs, and debris of all types without additional compensation. The Owner's Representative may, if requested, make changes in the trench alignment to avoid major obstructions, if such alignment changes can be made, within the easement or right-of-way without adversely affecting the intended function of the facility, at no additional cost to the Owner.

Shoring, Sheeting, & Bracing

- A. The Contractor shall provide all trench and structural bracing, shoring, or sheeting necessary to construct and protect the excavation from damage to existing utilities of all types, roadways, structures, and private property, and as required for the safety of the public, and employees.
- B. Increase trench widths accordingly by the thickness of the sheeting. Maintain sheeting in place until the pipe has been placed and backfilled at the pipe zone.
- C. Sheeting shall be removed by the Contractor during backfilling operations in a manner that will not damage the pipe or permit voids in the backfill.
- D. If approved by the Owner's Representative, sheeting can be left in place. The top of such sheeting left in place shall be cut off at a minimum elevation of 2.5 ft. below finished grade.
- E. All sheeting, shoring and bracing of trenches shall conform to the safety requirements of the Trench Safety Act and to the Federal, State or local public agency having jurisdiction.

Disposal of Removed Water

- A. Water pumped from the trench or other excavation shall be disposed of in storm sewers having adequate capacity, canals or suitable disposal pits as approved by the Owner's Representative. The Contractor is responsible for acquiring all permits required to discharge the water and shall protect waterways from turbidity during the dewatering operation. In areas where adequate disposal sites are not available, partially backfilled trenches may be used for water disposal only when the Contractor's plan for trench disposal is approved in writing by the Owner's Representative. The Contractor's plan shall include

temporary culverts, barricades and other protective measures to prevent damage to property or injury to any person or persons.

- B. Dispose of the water in a manner to prevent flooding of streets and damage to adjacent property. Drainage of trench water through the pipeline under construction is prohibited.
- C. Engines driving dewatering pumps shall be equipped with residential type mufflers.

Trench Backfill

- A. Backfill material shall be excavated material, predominately sandy material and essentially free of rock, stones, organic material, asphaltic concrete, clay, concrete, boulders and other deleterious material.
- B. Pipe Embedment: The backfill material required for placement around the pipe and to a depth of 1 foot above the top of the pipe shall consist of clean, fine to medium sand or a mixture of sand, shell or crushed rock with a maximum size of 3/4" and not more than 10 percent passing the U.S. Standard Number 200 sieve, properly graded and mixed so that fine grain material from the side walls of the trench or backfill above the embedment will not migrate into the backfill material.
- C. Above Pipe Embedment: The backfill material used to bring the trench to final subgrade from a depth of 1 foot above the top of the pipe shall consist of sand or a mixture of clean mineral soils with no particle size larger than 3-1/2".
- D. Additional Fill: If sufficient suitable backfill material is not available from the excavation, additional fill meeting the above requirements shall be provided and paid for by the Contractor.

Backfill Operation

The pipe trench shall be backfilled immediately after the pipe is laid, unless other protection for the pipe line is provided. Backfill materials shall be selected, deposited and compacted so as to eliminate the possibility of lateral displacement of the pipe.

Compaction Equipment

- A. Compaction equipment shall be of suitable type and adequate to obtain the amount of compaction specified. Compaction equipment shall be operated in strict accordance with the manufacturer's instructions and recommendations and shall be maintained in such condition that it will deliver the manufacturer's rated compactive effort.
- B. Hydro-compaction (puddling) of the backfill material will not be permitted.

Placing and Compaction

- A. The backfill material placed around the pipe to final subgrade, shall be compacted to a density of not less than 98% the maximum dry density as determined by of AASHTO Method T-180 or by IRCDUS Standards.
- B. The fill lift thickness shall be uniformly compacted and restricted to 8 inches maximum. Particular care shall be taken to ensure that the backfill at the haunch is free from voids and is properly compacted.
- C. Backfilling and compacting around meter boxes, valve boxes, manholes, storm inlets, and other structures shall be accomplished in the same manner as the connected pipe. Extreme care shall be used in backfilling well point holes to prevent voids and settlement. If necessary, the holes should be plugged with a flowable

fill, such plugging to be at the expense of the Contractor.

Compaction Tests

- A. The Owner's Repetitive may at any time instruct the Contractor to partially excavate a previously backfilled trench or temporarily backfilling of a short section of the trench for the purpose of obtaining measurements of the density of the backfill.
- B. The cost of the partial excavation and restoration of the backfill will be paid for by the Contractor.
- C. The Owner will pay for the proctors and density tests. Any test failures will be paid by the Contractor.
- D. Proctor and density tests shall be taken along the pipe, and at locations of manholes, inlets, and valves. The location, depth, and number of the tests shall be as selected by the Owner's Repetitive. Maximum intervals between tests shall be 300 feet.

Restoration of Surface Improvements

- A. All surface improvements on public or private property which have been damaged or removed during excavation or any of the other Contractor's operation or other various construction activities shall be restored to conditions equal to or better than conditions existing prior to beginning work.
- B. These surface improvements include, but are not limited to, grass plots, sod, shrubbery, ornamental trees, signs, fences, mailboxes and other improvements on public or private property.
- C. Road shoulders, alleys and driveways of shell, lime rock, stabilized soil or gravel, where disturbed, shall be restored with like materials as removed. There shall be no mixing of unlike materials. The disturbed area shall be replaced with the appropriate materials to a minimum depth to restore it to a condition equal to or better than conditions existing prior to beginning work.
- D. Roadways other than paved streets, where disturbed, shall be replaced with like materials to a minimum compacted thickness of twelve (12) inches. There shall be no mixing of unlike materials. These roadways shall be compacted to a minimum of 98% of the maximum dry density as determined by AASHTO Method T-180 or per IRC/DUS Standards.
- E. No additional cost for replacement of roadways other than paved streets will be allowed by the Owner.

Pavement, Curb & Sidewalk Removal

- A. Cut all bituminous and concrete pavements, regardless of the thickness, and all curbs and sidewalks, prior to excavation of the trenches with an approved pavement saw, hydro hammer, or approved pavement cutter. Unless otherwise directed by the Owner's Representative, the width of the pavement cut shall be at least equal to the required width of the trench at ground surface.
- B. Replacement concrete sidewalks shall be restored with a new modular panel, and the old panels shall be completely removed. No partial panels will be accepted.
- C. Pavement and concrete materials removed shall be hauled from the site and not used for trench backfill.
- D. The Contractor shall remove pavements as part of the trench excavation. The material from permanent pavement removal shall be carefully separated from trench excavation material and disposed of by the

Contractor.

Pumping & Drainage

- A. The Contractor shall be responsible for determining all dewatering requirements and governmental regulations prior to commencement of work including, but not limited to, methods of drainage, removal of water, disposal of water and permitting.
- B. The Contractor shall bear all costs associated with dewatering, including costs of damage to property caused by dewatering.
- C. The Contractor shall provide and maintain all necessary facilities and equipment to remove all water entering excavations and shall keep such excavations dry so as to obtain a satisfactory undisturbed subgrade foundation condition until the fills, structures or pipes to be built thereon have been completed to such extent that they will not float or otherwise be damaged by allowing water levels to return to natural levels.
- D. Dewatering shall be conducted by a well point type system and in such a manner as to preserve the undisturbed bearing capacity of the subgrade soils at the proposed bottom of the excavation and to preserve the integrity of adjacent structures. Well point system installation shall be constructed with proper sand filters to prevent drawing of finer grained soil from the surrounding ground. Sump installation, over excavation of trenches, and rocking shall not be allowed as a method of dewatering.
- E. The conveying of water in open ditches or trenches will not be allowed. Permission to use any storm sewers, or drains, for water disposal purposes shall be obtained from the authority having jurisdiction. Any requirements and costs for such use shall be the responsibility of the Contractor. However, the Contractor shall not cause flooding by overloading or blocking up the flow in the drainage facilities, and shall leave the facilities unrestricted and as clean as originally found. Any damage to facilities shall be repaired or restored as directed by the Owner's Representative, or the authority having jurisdiction, at no cost to the Owner.
- F. The Contractor shall take all necessary precautions to preclude the accidental discharge of fuel, oil, etc., in order to prevent adverse effects on groundwater quality.
- G. The Contractor shall provide for and be responsible for the prevention, control and abatement of erosion and water pollution until completion of the Project. The Contractor shall provide all temporary erosion control features necessary to prevent, control and abate erosion and water pollution. During the construction of the project, the Contractor shall comply with the Water Quality Standards of the State of Florida and applicable provisions of any NPDES permits in effect. Contractor shall procure any NPDES permits required by regulations as a result of the proposed Work.
- H. Prior to the release of any dewatering effluent, the Contractor shall sample turbidity levels in the final effluent to verify that turbidity levels do not exceed turbidity levels in the receiving water body by more than 29 NTU's (FAC 62-302 Surface Water Quality Standards). If dewatering effluent initially discharges into a man-made drainage ditch that conveys stormwater runoff from urbanized areas, the receiving waters are deemed to be at the outfall of the drainage ditch and FDEP may approve a permit modification allowing for the drainage ditch to be used as a mixing zone.

Pipe and Fittings

Description

Work under this section consists of furnishing all materials, supplies, equipment and labor in accordance with the requirements set forth herein and per IRCUDS Standards.

Applicable Codes, Standards, and Specifications

- A. The work under this Contract shall be in strict accordance with the following codes and standards.
- B. Indian River County Utility Standards.
- C. Florida Department of Environmental Protection.
- D. American Society for Testing and Materials (ASTM).
- E. American National Standards Institute (ANSI).
- F. American Water Works Association AWWA C600 Standard for Installation of Ductile-Iron Water Main and Their Appurtenances and AWWA C605 Standards for Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water.

Materials & Equipment

- A. Unless otherwise specified or directed by the Owner's Representative, materials and equipment shall be the standard product of a manufacturer and shall comply with the Contract Documents and applicable standards for such materials or equipment.
- B. Prior to the start of work, the Contractor shall submit to the Owner's Representative a list of the manufacturers of all materials to be incorporated in the work that conform to a standard, code.

Workmanship

All materials and equipment shall be installed in accordance with the manufacturer's instructions and to these Contract Documents. The Contractor shall notify the Owner's Representative when the manufacturer's instructions conflict with these specifications.

Site Maintenance

The Contractor shall take the necessary steps to prevent objectionable blowing or drifting of dust, sand or other debris where the construction occurs in residential, commercial or other developed areas.

Delivery, Storage & Handling and Equipment

- A. Deliver pipe to the site in such a manner as to provide adequate protection for the pipe ends and pipe.
- B. The Contractor, at his own expense, shall provide space for storage of materials and equipment.
- C. If permitted by the Owner, pipe strung along roads and rights-of-way shall be placed in a manner that will not endanger or restrict pedestrian or vehicular traffic.
- D. Do not store PVC pipe in a place where it can be exposed to ultraviolet sunlight.

Products

Ductile Iron Pipe and Fittings for Pressurized Distribution Mains – Water or Sewer Application

1. Pipe:

- a. Ductile Iron Pipe and Joint Devices shall conform to the requirements of ANSI/AWWA C151/A21.51, ANSI/AWWA C111/A21.11-90, ANSI/AWWA C115/A21.15.
- b. Sizes 3" to 12" diameter shall be Class 52.
- c. Sizes 14" and above shall be Class 51.

2. Fittings:

- a. Fittings 4" through 24" shall conform to the requirements of ANSI/AWWA C153/A21.53 latest revision.
- b. Fittings 30" and above shall conform to the requirements of ANSI/AWWA C110/A21.10 latest revision.
- c. Pipe fittings shall be pressure rated at 350 psi. Coatings shall be the same as for the pipe.
- d. joint fittings for 24" and smaller diameter shall be "Flex-Ring" as manufactured by American Cast Iron Pipe Company, "TR Flex" as manufactured by U.S. Pipe Company, "Super-Lock" as manufactured by Clow Corporation, or an "approved equal". Restrained joint fittings for 30" and larger diameter pipe shall be "Lok-Ring" as manufactured by American Cast Iron Pipe Company, "TR-Flex" as manufactured by U.S. Pipe Company, or an "approved equal". All bolts and hex nuts shall be U.S. Steel COR Ten or an "approved equal". The accessory package consisting of the restraining element and gaskets shall be packaged together as a complete unit noting the size on the outside of the sealed weather proof container. Mechanical joint fittings as specified in paragraph 2 © below may also be used at the Contractor's option.
- e. Mechanical Joint Fittings shall conform to the requirements stated in paragraph 2(a) above. Mechanical joint fittings shall be furnished with Megalug Retainer Glands as manufactured by EBBA Iron, Inc., Eastland, Texas (1-800-433-1716) or an "approved equal" unless otherwise noted. All bolts and hex nuts shall be U.S. Steel COR Ten or an "approved equal". The accessory package consisting of the retainer gland, bolts, nuts and gaskets shall be packaged together as a complete unit noting the size on the outside of the sealed weatherproof container.

Coatings

- A. The internal surfaces of force main piping and fittings shall be epoxy lined in strict accordance with the manufacturer's recommendations.
- B. External surface of all buried ductile iron pipe and fittings shall be coated with a bituminous coating approximately one mil thick in accordance to AWWA C151/A21.51 latest revision.
- C. External surface of all buried ductile iron pipe and fittings shall be coated with a bituminous coating approximately one mil thick in accordance to AWWA C151/A21.51 latest revision.

Joints

- A. Joints in pipe shall conform to the requirements of ANSI/AWWA C151 latest revision.
- B. Joints in fittings shall conform to the requirements of ANSI/AWWA C111/A21 latest revision.
- C. Slip-on joints and mechanical joints shall conform to the requirements of AWWA C-111.
- D. Restrained joints shall be American Ductile Iron "Flex-Ring" Joint or "Fast-Grip" Gaskets, U.S. Pipe "TR Flex" Joint or "Field Lok" Gaskets, Clow "Super Lock" Joint, Mechanical Joint with Megalug Retainer Gland, or "approved equal".
- E. All bolts and hex nuts shall be U.S. Steel COR Ten or an "approved equal", conforming to current provisions of American National Standard ANSI/AWWA C111/A21.11 for rubber gasket joints for ductile iron pipe and fittings, NSS Cor-Ten T-bolts, or an "approved equal".

Ductile Iron & Polyvinyl Chloride Pipe for Gravity Wastewater System Application

- A. Polyvinyl Chloride Pipe (PVC) shall conform to the requirements of ASTM D3034, SDR 26.
- B. Ductile Iron Pipe sizes 3" to 12" diameter shall be Class 52. Sizes 14" and above shall be Class 51.
- C. Polyvinyl Chloride Pipe (PVC) shall conform to the requirements of ASTM D3034, SDR 26.
- D. Fittings shall conform to the requirements of ANSI/AWWA C110/A21.10 latest revision.
- E. Coating on the internal surface of ductile iron sewer pipe and fittings shall conform to:

The internal surfaces of force main piping and fittings shall be epoxy lined in strict accordance with the manufacturer's recommendations. The following products are the only currently approved products which shall be utilized for internal use:

Protecto 401 Ceramic Epoxy Lining, 40 mils thick.

Permax PCS-9043, Glass Flake Epoxy, 40 mils thick.

- F. External surface of all ductile iron pipe and fittings shall be coated with a bituminous coating approximately one mil thick.
- G. Joints in ductile iron fittings shall conform to the requirements of ANSI/AWWA C111/A21 latest revision.
- H. Joints in PVC pipe shall conform to the requirements of ASTM D3212 with watertight rubber sealing ring and flexible seal.

Reinforced Concrete Pipe & Polyvinyl Chloride Pipe for Gravity-Storm Sewer Application

- A. Reinforced concrete pipe (RCP) shall be in conformance to the requirements of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction, latest edition, Section 941, Articles 941-1 through 941-2.
- B. Polyvinyl Chloride Pipe (PVC) shall conform to the requirements of ASTM D3034, SDR 26.
- C. The pipe joints shall be the round rubber gasket type conforming to the F.D.O.T.'s Standard Specifications

for Road and Bridge Construction, latest edition, Section 942, Article 942-1. Pipe joint installation otherwise shall be in accordance with the recommendations of the pipe manufacturer and the gasket manufacturer.

- D. Pipe gaskets shall be in conformance with Section 942 of the F.D.O.T.'s Standard Specifications for Road and Bridge Construction, latest edition.

Identification & Color Coding of Wastewater Pipe & Fittings

- A. All wastewater force main pipe and fittings shall be color coded or marked using safety Green as a predominant color. Underground plastic pipe shall be solid-wall Green pipe, co-extruded Green external skin, or shall be white or black pipe with Green stripes incorporated into, or applied to, the external pipe wall.
- B. Underground metal or concrete pipe shall have Safety Green stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe shall have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 180-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe. For pipes with an internal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines run parallel to the axis of the pipe, that are located at no greater than 120-degree intervals around the pipe, and that will remain intact during and after installation of the pipe.
- C. All aboveground wastewater force mains shall be painted solid Safety Green.
- D. Green Warning tape with WASTEWATER printed on the tape shall be placed in the trench during backfill of the wastewater force main pipe, a vertical distance of 18" above the crown of the pipe.

Wastewater Gravity Sewers

- A. All gravity sewer lines and laterals within the public right of way shall be green in color.
- B. Green Warning tape with WASTEWATER printed on the tape shall be placed in the trench during backfill of the wastewater laterals only, a vertical distance of 18" above the crown of the pipe. No tape is required on collection lines between manholes.

Referenced Standards

All standard specifications, i.e., Federal, ANSI, ASTM, etc., made a portion of these Specifications by reference, shall be the latest edition and revision thereof.

Submittals

- A. The Contractor shall submit to the Owner's Representative, a list of materials to be furnished, the names of the suppliers, and the appropriate shop drawings for all HDPE pipe and fittings.
- B. The Contractor shall submit the pipe manufacturer's certification of compliance with the applicable sections of the Specifications.
- C. The Contractor shall submit shop drawings showing installation method and the proposed method and specialized equipment to be used.

Polyethylene Pipe & Fittings

- A. Polyethylene pressure pipe shall be manufactured from PE3408 polyethylene and shall meet AWWA C906 standards. When specified by the Owner's Representative as an alternate to PVC, HDPE (ductile iron pipe sized) piping can be used for buried applications. Iron pipe sized (IPS) HDPE piping can be used for above-ground applications. HDPE (IPS) Hydrostatic Design Bases (HDB) piping shall be used for the riser pipes from the pump discharge and manifold per IRCUDS Standards. All HDPE pipe shall be DR -11 unless a substitute is authorized by the County's Representative.
- B. Where HDPE pipe is joined to HDPE pipe, it shall be by thermal butt fusion. Thermal butt fusion shall be accomplished in accordance with the pipe manufacturer and fusion equipment supplier specifications. The Contractor installing thermal butt fused HDPE pipe shall have a minimum of five years' experience performing this type of work.
- C. Qualification of Manufacturer. The Manufacturer shall have manufacturing and quality control facilities capable of producing and assuring the quality of the pipe and fittings required by these specifications. The Manufacturer's production facilities shall be open for inspection by the Owner or their authorized representative. Qualified manufacturers shall be approved in writing by the Owner's Representative.
- D. Materials used for the manufacture of polyethylene pipe and fittings shall be PE3408 high density polyethylene meeting cell classification 345434C or 345434E per ASTM D 3350; and meeting Type III, Class B or Class C, Category 5, Grade P34 per ASTM D 1248; and shall be listed in the name of the pipe and fitting manufacturer in PPI (Plastics Pipe Institute) TR-4, Recommended Hydrostatic Strengths and Design Stresses for Thermoplastic Pipe and Fittings Compounds, with a standard grade rating of 1600 psi at 73°F. The Manufacturer shall certify that the materials used to manufacture pipe and fittings meet these requirements.
- F. Interchangeability of Pipe and Fittings. Polyethylene pipe and fittings shall be produced by the same Approved Manufacturer. Products made by sub-Contractors or Manufacturer's distributor are not acceptable. Pipe and fittings from different Approved Manufacturers shall not be interchanged.
- G. Polyethylene Pipe. Polyethylene pipe shall be manufactured in accordance with ASTM F 714, Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter or ASTM D 3035, Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter and shall be so marked. Each production lot of pipe shall be tested for (from material or pipe) melt index, density, % carbon, (from pipe) dimensions and either quick burst or ring tensile strength (equipment permitting).
- H. Polyethylene Fittings & Custom Fabrications. Polyethylene fittings and custom fabrications shall be molded or fabricated by the pipe manufacturer. Butt fusion outlets shall be made to the same outside diameter, wall thickness, and tolerances as the mating pipe. All fittings and custom fabrications shall be fully rated for the same internal pressure as the mating pipe. Pressure de-rated fabricated fittings are prohibited.
- I. Molded Fittings. Molded fittings shall be manufactured in accordance with ASTM D 3261, Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing, and shall be so marked. Each production lot of molded fittings shall be subjected to the tests required under ASTM D 3261.
- J. X-Ray Inspection. The Manufacturer shall submit samples from each molded fitting production lot to x-ray inspection for voids, and shall certify that voids were not found.

- K. Fabricated Fittings. Fabricated fittings shall be made by heat fusion joining specially machined shapes cut from pipe, polyethylene sheet stock, or molded fittings. Fabricated fittings shall be rated for internal pressure service equivalent to the full-service pressure rating of the mating pipe. Directional fittings 16" IPS and larger such as elbows, tees, crosses, etc., shall have a plain end inlet for butt fusion and flanged directional outlets. Part drawings shall be submitted for the approval of the Owner's Representative.
- L. Polyethylene Flange Adapters. Flange adapters shall be made with sufficient through-bore length to be clamped in a butt fusion joining machine without the use of a stub-end holder. The sealing surface of the flange adapter shall be machined with a series of small v-shaped grooves to provide gasketless sealing, or to restrain the gasket against blow-out.
- M. Back-up Rings & Flange Bolts. Flange adapters shall be fitted with lap joint flanges pressure rated equal to or greater than the mating pipe. The lap joint flange bore shall be chamfered or radiused to provide clearance to the flange adapter radius. Flange bolts and nuts shall be Grade 2 or higher.
- N. Installation shall be in accordance with Manufacturer's recommendations and this specification. All necessary precautions shall be taken to ensure a safe working environment in accordance with the applicable codes and standards.

Installation of High-Density Polyethylene Pressure Pipe & Fittings

- A. All high-density polyethylene (HDPE) pressure pipe shall be installed by direct bury, directional bore, or a method approved by the Owner prior to construction. If directional bore is used, or if directed by the Owner, the entire area of construction shall be surrounded by silt barriers during construction.
- B. Installation shall be in accordance with Manufacturer's recommendations, and this specification. All necessary precautions shall be taken to ensure a safe working environment in accordance with the applicable codes and standards.

Heat Fusion Joining

Joints between plain end pipes and fittings shall be made by butt fusion, and joints between the main and saddle branch fittings shall be made using saddle fusion using only procedures that are recommended by the pipe and fitting Manufacturer. The Contractor shall ensure that persons making heat fusion joints have received training and certification for heat fusion in the Manufacturer's recommended procedure. The Contractor shall maintain records of trained personnel, and shall certify that training was received not more than 12-months before commencing construction. External and internal beads shall not be removed.

Mechanical Joining

Polyethylene pipe and fittings may be joined together or to other materials by means of flanged connections (flange adapters and back-up rings) or mechanical couplings designed for joining polyethylene pipe or for joining polyethylene pipe to another material. Mechanical couplings shall be fully pressure rated and fully thrust restrained such that when installed in accordance with manufacturer's recommendations, a longitudinal load applied to the mechanical coupling will cause the pipe to yield before the mechanical coupling disjoins. External joint restraints shall not be used in lieu of fully restrained mechanical couplings.

Mechanical Joint & Flange Installation

Mechanical joints and flange connections shall be installed in accordance with the Manufacturer's recommended procedure. Flange faces shall be centered and aligned to each other before assembling and

tightening bolts. In no case shall the flange bolts be used to draw the flanges into alignment. Bolt threads shall be lubricated, and flat washers shall be fitted under the flange nuts. Bolts shall be evenly tightened according to the tightening pattern and torque step recommendations of the Manufacturer. At least one hour after initial assembly, flange connections shall be re-tightened following the tightening pattern and torque step recommendations of the Manufacturer. The final tightening torque shall be 100 ft-lbs. or less as recommended by the Manufacturer.

Paints & Coatings

- A. The work of this section consists of furnishing all materials, labor, equipment and incidentals required and performing all the painting necessary to complete this Contract in its entirety.
- B. It is the intent of these Specifications to paint all exposed structural ferrous metal, pipe, fittings, supports, masonry, concrete, and all other work required to be painted unless otherwise specified.

References from Steel Structures Painting Council (SSPC):

1. SSPC-SP-1 Surface Preparation Specification - Solvent Cleaning
2. SSPC-SP-2 Surface Preparation Specification - Hand Tool Cleaning
3. SSPC-SP-3 Surface Preparation Specification - Power Tool Cleaning
4. SSPC-SP-6 Surface Preparation Specification - Commercial Blast Cleaning

Painting Not Included

- A. The following categories of work below (B – E) are not included as part of the field-applied finish work, or are included in other sections of these specifications.
- B. Pre-Finished Items: Unless otherwise indicated, do not include painting when factory finishing or installer finishing is specified for such items as finished electrical equipment.
- C. Finished Metal Surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, and bronze materials will not require finish painting, unless otherwise indicated.
- D. Operating Parts and Labels: Moving parts of operating units, mechanical and electrical parts, such as valve and damper operators, linkages, sinkages, sensing devices, motor and fan shafts will not require finish painting, unless otherwise indicated.
- E. Do not paint over any code-required labels, such as Underwriters Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

Materials

- A. All painting materials shall be fully equal to those manufactured by the Tnemec Company Inc., Sherwin-Williams, Porter Paint Company or M-A-B Paints and Coatings. The painting schedule has been prepared on the basis of Tnemec, Porter and Koppers products and recommendations for applications. No brand other than those named will be considered for approval unless the brand and type of paint proposed for each item in the following schedule together with sufficient data substantiated by certified tests conducted at no expense to the Owner, to demonstrate its equality to the paint(s) named, is submitted in

writing to the Owner for approval within 30 days after the signing of the Notice to Proceed. The type and number of tests performed shall be subject to the Owner's Representative's approval.

- B. All painting materials shall be delivered to the mixing room in unbroken containers, bearing the Manufacturer's brand, date of manufacture and name. They shall be used without adulteration and mixed, thinned and applied in strict accordance with Manufacturer's directions for the applicable materials and surface and with the Owners Representative's approval before using.
- C. (2) Coats shall be applied regardless of the material painted.

Preparation of Surfaces

- A. General: Perform preparation and cleaning procedures in strict accordance with the paint Manufacturer's instructions and as herein specified, for each particular substrate condition. When the specified and recommended Manufacturers surface preparation system differ, use the system which in the Owner's opinion is the more restrictive (conservative). Tar stops shall not be applied to items with bitumastic coatings. The bitumastic coating shall be sandblasted off. All surfaces to be painted shall be prepared as specified herein and shall be dry and clean before painting.
- B. Carefully remove all hardware, hardware accessories, machine surfaces, plates, and similar items in place and not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Remove if necessary, for the complete painting of the items and adjacent surfaces. Following completion of painting of each space or area, reinstall the removed items by workmen skilled in the trades involved.
- C. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program the cleaning and painting so that contaminants from the cleaning process will not fall onto wet, newly-painted surfaces.
- D. All metal welds, blisters, etc., shall be ground and sanded smooth in accordance with SSPCSP-3, or in difficult and otherwise inaccessible areas, by hand cleaning in accordance with SSPC-SP2. All pits and dents shall be filled and all imperfections shall be corrected so as to provide a smooth surface for painting. All rust, loose scale, oil, grease and dirt shall be removed by use of approved solvents, wire brushing or sanding.
- E. Primed or Previously Painted Surfaces and Nonferrous Surfaces: All coated surfaces shall be cleaned prior to application of successive coats. Highly corroded surfaces shall be sand blasted in accordance with SSPC-SP-6. All nonferrous metals not to be coated shall be cleaned. This cleaning shall be done in accordance with SSPC-SP-1, Solvent Cleaning.
- F. Cementitious Materials:
 1. Prepare cementitious surfaces of concrete and concrete block to be painted by removing all efflorescence, chalk, dust, dirt, grease, oils, and by roughening as required to remove glaze.
 2. Determine the alkalinity and moisture content of the surfaces to be painted by performing appropriate tests. If the surfaces are found to be sufficiently alkaline to cause blistering and burning of the finish paint, correct this condition before application of paint. Do not paint over surfaces where the moisture content exceeds that permitted in the Manufacturer's printed directions.

- G. Shop-Finished Surfaces: All shop-coated surfaces shall be protected from damage and corrosion before and after installation by treating damaged areas immediately upon detection. Abraded or corroded spots on shop-coated surfaces shall be "Hand Cleaned" and then touched up with the same materials as the shop coat. All shop coated surfaces which are faded, discolored, or which require more than minor touch-up in the opinion of the Owner shall receive new surface preparation before being repainted. Cut edges of galvanized sheets and exposed threads and cut ends of galvanized piping, electrical conduit, and metal pipe sleeves, that are not to be finished painted, shall be "Solvent Cleaned" and primed with zinc dust-zinc oxide metal primer.
- H. Galvanized and Zinc-Copper Alloy Surfaces: Where these surfaces are specified to be painted, they shall be "Solvent Cleaned" and/or sand blasted and treated as hereinafter specified. Such surfaces not to be painted shall be "Solvent Cleaned".

Workmanship

- A. Primer (spot) and paint used for a particular surface shall, in general, be as scheduled for that type of new surface. Confirm with the paint Manufacturer that the paint proposed for a particular repaint condition will be compatible with the existing painted surface. Sample repainted areas on the actual site will be required to ensure this compatibility. Finished repainted areas shall be covered by the same guarantee specified for remainder of work.
- B. At the request of the Owner's Representative, samples of the finished work prepared in strict accordance with these Specifications shall be furnished and all painting shall be equal in quality to the approved samples. Finished areas shall be adequate for the purpose of determining the quality of workmanship. Experimentation with color tints shall be furnished to the satisfaction of the Owner where standard chart colors are not satisfactory.
- C. Protection of movable objects, equipment, fittings and accessories shall be provided throughout the painting operations. Dripped or spattered paint shall be promptly removed. Lay drop cloths in all areas where painting is being done to adequately protect flooring and other work from all damage during the operation and until the finished job is accepted.
- D. On metal surfaces apply each coat of paint at the rate specified by the Manufacturer to achieve the minimum dry mil thickness required. If material has thickened or must be diluted for application by spray gun, the coating shall be built up to the same film thickness achieved with undiluted material. One gallon of paint as originally furnished by the Manufacturer shall not cover a greater area when applied by spray gun than when applied unthinned by brush. Deficiencies in film thickness shall be corrected by the application of an additional coat(s). On masonry, application rates will vary according to surface texture, however, in no case shall the Manufacturer's stated coverage rate be exceeded. On porous surfaces, it shall be the painter's responsibility to achieve a protective and decorative finish either by decreasing the coverage rate or by applying additional coats of paint.
- E. Paints shall be mixed in proper containers of adequate capacity. All paints shall be thoroughly stirred before use and shall be kept stirred while using. No unauthorized thinners or other materials shall be added to any paint.
- F. Only skilled painters shall be used on the work and specialists shall be employed where required.

Quality Control

- A. The finished surfaces shall be free from runs, ridges, voids, drips, waves, laps, and variation in color, texture and finish. Painting found defective shall be scraped or sandblasted off and repainted as directed by the Owner's Representative. Before final acceptance of the work, damaged surfaces of paint shall be cleaned and repainted or touched up as directed by the Owner's Representative.
- B. Provide "Wet Paint" signs as required to protect newly-painted finishes. Remove temporary protective wrappings provided by others for protection of their work, after completion of painting operations.
- C. At the completion of work of other trades, touch-up and restore all damaged or defaced painted surfaces.
- D. Successive coats of paints shall completely cover the previous coat so it cannot be seen. Each coat shall be tinted to make the various coats distinguishable. Successive coats shall be applied after a minimum 24-hour drying period unless otherwise recommended by the Manufacturer.

Cleanup

- A. The premises shall at all times be kept free from accumulation of waste material and rubbish caused by employees or work. At the completion of the painting remove all tools, scaffolding, surplus materials and all rubbish from and about the buildings and leave work "broom clean" unless more exactly specified.
- B. Upon completion, remove all paint where it has been spilled, splashed, or splattered on all surfaces, including floors, fixtures, equipment, furniture, etc., leaving the work ready for inspection.

Paint Color

All colors shall be as selected by the Owner's Representative from Color Cards to be submitted by the Contractor.

Wastewater Valves & Appurtenances

General

Furnish all labor, materials, equipment and incidentals required and install complete and ready for operation all valves and appurtenances as specified herein.

Equipment

The equipment shall include, but not be limited to, the following:

- Eccentric Plug Valves
- Check Valves
- Vacuum Breakers
- Air Release Valves
- Curb Stops & Corporations Stops
- Flange Adapter Couplings and Flexible Couplings
- Diaphragm Seals, Unions and Mechanical Type Seals
- Hose bibs and PSI Gauges

Description of System

All of the equipment and materials specified herein are intended to be standard for use in controlling the flow of wastewater and reuse water.

Qualifications

All of the types of valves and appurtenances shall be products of well-established reputable firms who are fully experienced, reputable and qualified in the manufacture of the particular equipment to be furnished. The equipment shall be designed, constructed and installed in accordance with the best practices and methods and shall comply with these specifications as applicable.

Special Tools

Special tools, if required for normal operation and maintenance shall be supplied with the equipment.

Product, General

- A. All valves and appurtenances shall be per IRCDUS Standards. Unless approved otherwise by the Owner's Representative, all valves of the same type shall be from the same manufacturer.
- B. All valves and appurtenances shall have the name of the manufacturer and the working pressure for which they are designed cast in raised letters upon some appropriate part of the body.
- C. Valve exterior to be painted Phenolic Primer Red Oxide for high resistance to corrosion.
- D. For corrosion protection, the interior ferrous surfaces of all check valves used in sewage applications shall be coated with a factory applied, two-part epoxy coating to a minimum of 20 mils thick.

Eccentric Plug Valves

- A. All valves shall be eccentric plug valves unless otherwise specified. Valves shall be as manufactured by DeZurik, Milliken, Valmatic or approved equal.
- B. Plug valves shall be tested in accordance with AWWA C504 Section 5. Each valve shall be performance tested in accordance with AWWA C504 Section 5.2 and shall be given a leakage test and hydrostatic test as described in AWWA C504 Paragraphs 5.3 and 5.4. The leakage test shall be applied to the face of the plug tending to unseat the valve. The Manufacturer shall furnish certified copies of reports covering proof of design testing as described in AWWA C504 Section 5.5.
- C. Plug valves shall be of the tight closing, resilient faced, non-lubricating variety and shall be of eccentric design such that the valve's pressure member (plug) rises off the body seat contact area immediately upon shaft rotation during the opening movement.
- D. Valve pressure ratings shall be established by hydrostatic tests as specified by ANSI B16.1-1967. Pressure ratings shall be as follow: Valves shall be drip-tight in both directions (bi-directional) at rated pressure, 175 psi for 12-inch diameter and smaller; 150 psi for 14-inch diameter and larger. The valve shall be provided with a 2-inch square operating nut.
- E. The valve body shall be constructed of cast iron ASTM A126, Class B. Body ends shall be mechanical joint to meet the requirements of AWWA C111/ANSI A21.11 or single gasket push-on type.

- F. The valve plug shall be constructed of cast iron or ductile iron and shall have a conical seating surface which is eccentrically offset from the center of the plug shafts. The plug and shafts shall be integral. The entire plug face shall be totally encapsulated with Buna N (Nitrile) rubber in all valve sizes. The rubber to metal bond must withstand 75 lbs. pull under test procedure ASTM D-429-73, Method B. When the plug is in full open position, plug geometry and body waterway contours must provide a passageway that allows flow capacity to 100% of the adjacent pipe area.
- G. Valve seat mating surface shall be constructed of a welded-in overlay of not less than 90% nickel or be a one-piece 304 stainless-steel ring. Seat ring contour must be precision machined.
- H. A mechanical "brake" shall be supplied on all valves and shall be capable of "locking" the valve in any intermediate position between full-open and full-closed.
- I. Valves shall have multiple V-type packing and packing glands and shall be capable of being field adjusted or repacked without the bonnet or plug being removed from the valve with the valve under the full rated pressure. Valves shall have a port position indicator.
- J. Valve shaft seals shall be adjustable and comply with AWWA C507 Section 10 and with AWWA C507 Section 11.
- K. Manual valves shall have lever or gear actuators and tee wrenches, extension stems, floor stands, etc. per IRCDUS Standards. All valves 6" and larger shall be equipped with gear actuators and handwheels.
- L. All gearing shall be enclosed in a semi-steel housing and be suitable for running in a lubricant with seals provided on all shafts to prevent entry of dirt and water into the actuator. All actuator shafts shall be supported on permanently lubricated bronze bearings. Actuators shall clearly indicate valve position and an adjustable stop shall be provided to set closing torque. All adjustable stop shall be provided to set closing torque.
- M. All exposed nuts, bolts, and washers shall be zinc or cadmium plated. Valve packing adjustment shall be accessible without disassembly of the actuator.
- N. Valves and gear actuators for submerged service shall have seals on all shafts and gaskets on the valve and actuator covers to prevent entry of water. Actuator mounting brackets for buried or submerged service shall be totally enclosed and shall have gasket seals. All exposed nuts, bolts, springs and washers shall be stainless steel.
- O. Three-way plug valves shall be non-lubricated gear oriented. Valve bodies shall be ASTM A-126 Class, and be semi-steel with 125 lb. ANSI standard flanges. Plugs shall be resilient faced. Three-way valves shall be 3-way, 3 port 270 degree turn.
- P. Plug valves installed such that actuators are 6-feet or more above the floor shall have chain wheels.
- Q. Plug valves shall be installed with extended shafts and actuators if required. Actuators for extended shafts shall be mounted on floor stands or shall be removable handwheels where floor stands are not called for. Six-inch sleeves shall be provided for extended shafts in all floors; where necessary covers shall be provided. Shafts shall be of adequate strength to operate the valve and shall be 304 stainless-steel where submerged and carbon steel elsewhere. Floor stands and covers, where called for shall be cast iron. Floor

stands shall be equipped with valve position indicators. Plug valves shall be furnished with extended bonnets, equal to DeZurik Figure 640.

- R. All buried plug valves shall have a remote position indicator in the valve box showing position of the valve. A stainless-steel centering and I.D. plate shall be provided showing direction of opening and number of turns to open for each valve.

Valves for Buried Service

- A. Valves for buried service shall meet all the requirements as specified herein for interior except that buried valves shall have mechanical joint ends.
- B. All buried valves shall have cast-iron three-piece valve boxes, valve boxes shall be provided with suitable heavy bonnets to extend to such elevation at the finished grade surface as directed by the Owner's Representative. The barrel shall be two-piece, screw type, having 5 " shaft. The upper section shall have a flange at the bottom having sufficient bearing area to prevent settling, shall be designed so as to prevent the transmission of surface loads directly to the valve or piping. Valve boxes shall be manufactured by CLOW, OPELIKA FOUNDRY, TYLER PIPE, or approved equal.
- C. Valve boxes shall have cast iron covers as specialty covers in sidewalks or landscape areas. Covers shall have "SEWER" cast into the top. The covers shall be constructed as to prevent tipping or rattling.
- D. One tee-handled gate-wrench of suitable length shall be furnished.
- E. Where valves are located out of pavement, the boxes shall be adjusted to finished grade and a concrete slab two feet square and six inches thick shall be poured around the box.
- F. Valve boxes shall be of the heavy duty, traffic bearing cast iron, adjustable screw type with a drop cover. The valve box assembly shall consist of a bottom section, top section and cover which is cast from gray iron, formulated to ASTM specification A-48 latest revision, class 30 minimum and shall be free from blowholes, shrinkage or other imperfections not true to pattern. The shaft size shall be 5 1/4" and the adjustable length shall be from 18" to 24". The wall thickness shall be 3/16" + 1/16". The weight of the assembly shall be 61 pounds + 2 pounds, with the cover weight being a minimum of 12 pounds.
- G. The name of the manufacturer and foundry of origin shall be cast into each of the components of the assembly in legible form. The assembly shall be suitable for highway traffic wheel loads of 16,000 pounds and shall withstand a proof load test of 25,000 pounds without failure or permanent deflection, as per Federal Specification RR-F-621-C, latest revision. The valve box shall be cast, machined, assembled, and packaged within the United States and shall fully comply with the Buy American provisions of Public Law 102-240, enacted 12/18/91.

Check Valves

- A. Check valves shall absolutely prevent the return of water back through the valve when the inlet pressure decreases below the delivery pressure. The valve must be full opening, tight seating and its seat shall be replaceable. The valve disc shall be suspended from a non-corrosive shaft which will pass through a stuffing box.
- B. Check valves shall be as manufactured by M&H, Pratt, DeZurik, or approved equal.

- C. Check valves shall be outside-weighted arm, swing type and shall meet the material requirements of AWWA C508. The valves shall be iron body, with bronze mounted, Buna N faced single disc, 150 psi working water pressure, nonshock, and hydrostatically tested at 300 psi. Ends shall be 125-pounds ANSI B16.1 flanges. Additional weights shall be added if necessary, to prevent slamming.
- D. When there is no flow through the line the disc shall hang lightly against its seat in practically a vertical position. When open, the disc shall swing clear of the waterway.
- E. Check valves shall have bronze seat and body rings, extended bronze hinge pins and stainless-steel nuts on the bolts of bolted covers.
- F. Valves shall be so constructed that disc and body seat may easily be removed and replaced without removing the valve from the line. Valves shall be fitted with an extended hinge arm with outside lever and weight. If pump design head exceeds 77 feet, then an air cushioned assembly shall be installed.

Air Release Valves

Air release valves (ARV) used on sewer force mains shall be of the automatic type designed for wastewater applications. The valve body shall be cast iron construction, ASTM A126, Class B, and all internal working parts shall be 316 Series stainless-steel, and BUNA-N orifice button. The venting orifice shall be a minimum of 2.54 cm (1") in diameter. The inlet openings shall be sized per manufacturer's recommendation but no less than 5 cm (2") NPT screwed connection. ARVs shall be manufactured by Vent-omat Series RGX 316 Series stainless steel, or Bermad Flow Control Accessories 300 Series stainless steel air release valves ARI-5-022.

Flange Adapter Couplings

Flange adapter couplings shall be of the size and pressure rating required for each installation and shall be suitable for use on either cast iron or ductile iron pipe. They shall be similar or equal to Dresser Company, Style 128. All couplings shall have a sufficient number of factory installed anchor studs to meet or exceed the test pressure rating for this project, 100 psi minimum.

Flexible Couplings

- A. Flexible couplings shall be either the split type or the sleeve type if required
- B. Split type coupling shall be either the split type or the sleeve type. The couplings shall be mechanical type for radius groove piping. The couplings shall mechanically engage and lock grooved pipe ends in a positive coupling and allow for angular deflection and contraction and expansion.
- C. Couplings shall consist of malleable iron, ASTM Specification A47, Grade 32510 housing clamps in two or more parts, a single chlorinated butyl composition sealing gasket with a "C" shaped cross-section and internal sealing lips projecting diagonally inward, and two or more oval track head type bolts with hexagonal heavy nuts conforming to ASTM Specification A183 and A194 to assemble the housing clamps. Bolts and nuts shall be Series 300 stainless steel.
- D. Victaulic type couplings and fittings may be used in lieu of flanged joints. Pipes shall be radius grooved as specified for use with the Victaulic couplings. Flanged adapter connections at fittings, valves, and equipment shall be Victaulic Vic Flange Style 741, equal by Gustin-Bacon Group, Division of Certain-Teed Products, Kansas City, Kansas, or equal.

- E. Sleeve type couplings shall be used with all buried piping. The couplings shall be of steel and shall be Dresser Style 38, Smith Blair Style 413, Baker Allsteel, or equal. The coupling shall be provided with stainless steel bolts and nuts unless indicated otherwise.
- F. All couplings shall be furnished with the pipe stop removed.
- G. Couplings shall be provided with gaskets of a composition suitable for exposure to the liquid within the pipe.
- H. If the Contractor decides to use Victaulic couplings in lieu of flanged joints, he shall be responsible for supplying supports for the joints.

Diaphragm Seals

- A. Diaphragm seals shall be installed on pressure gauge connection to all lines to protect pressure switches used to monitor excessive pressures on pipe lines. The diaphragm shall be "thread attached" to both piping and pressure switches. Diaphragm seals shall be constructed of cadmium plated carbon steel, except for the lower housing which shall be specifically chosen according to the fluid pressure being monitored.
- B. Diaphragm seals shall have a flushing connection and be Type SB Mansfield and Green; No. 877 Terrice; Ashcroft; or equal.

Unions

Unions on ferrous pipe 2" in diameter and smaller shall be 150-pounds malleable iron, zinc-coated. Unions on water piping 2 " in diameter and larger shall be flange pattern, 125-pound class, zinc-coated. Gaskets for flanged unions shall be of the best quality fiber, plastic, or leather. Unions shall not be concealed in walls, ceilings, or partitions.

Mechanical Type Seals

Mechanical type seals shall consist of an adjustable modular bolted, synthetic rubber and plastic sealing element. The sealing element shall be Link-Seal LS-300-C as manufactured by Thunderline Corp., Inkster, Michigan or approved equal.

Hose End Faucets

Hose end faucets for potable water supply at submersible stations shall be Zurn Model Z-1385. Faucet shall be furnished with removable key and shall be lockable.

Pressure Gauges

- A. Each pressure gauge shall be direct mounted, cast aluminum case, with a 4 " diameter dial and furnished with a clear glass crystal window, 3/8" shut-off valve, and a bronze pressure snubber. Provide diaphragm seals between shut-off valve and pressure gauge on all sludge and lines with nonclear matter in suspension of solution. All gauges shall be weatherproofed. The face dial shall be white finished aluminum with jet black graduations and figures. The face dial shall indicate the units of pressure being measured (e.g., feet, inches, etc.) or be dual scale.
- B. Each pump discharge line shall be furnished with liquid filled gauges sized 0-100 psi.

Installation

- A. All valves and appurtenances shall be installed in the locations shown, true to alignment and rigidly supported. Any damage to the above items shall be repaired to the satisfaction of the Owner before they are installed.
- B. Valves shall be carefully inspected, opened wide and then tightly closed and the various nuts and bolts shall be tested for tightness. Special care shall be taken to prevent any foreign matter from becoming lodged in the valve seat. Valves, unless shown otherwise shall be set with their operator shaft vertically. Any valve that does not operate correctly shall be removed and replaced.
- C. Valve boxes shall be carefully centered over the operating nuts of the valves so as to permit a valve wrench or key to be fitted easily to the operating nut. Valve boxes shall be set to conform to the level of the finished surface and held in position by a ring of concrete placed under the support flange. The valve box shall not transmit surface loads to the pipe or valve. Care shall be taken to prevent earth and other material from entering the valve box. Any valve box which is out of alignment or whose top does not conform to the finished ground surface shall be dug out and reset.
- D. Before final acceptance of the work, all valve boxes shall be adjusted to finish grade. Valve operating risers shall be installed to ensure that the operating nut is 30-inches or less from the ground surface and to ensure that the valve box is true and aligned with the operating nut.
- E. After installation, all valves and appurtenances shall be tested at least 1 hour at the working pressure corresponding to the class of pipe, unless a different test pressure is specified. If any joint proves to be defective, it shall be repaired to the satisfaction of the Owner.
- F. Install all floor boxes, brackets, extension rods, guides, the various types of operators and appurtenant that are in masonry floors or walls, and install concrete inserts for hangers and supports as soon as forms are erected and before concrete is poured. Before setting these items, check all plans and figures which have a direct bearing on their location and he shall be responsible for the proper location of these valves and appurtenances during the construction of the structures.
- G. Pipe for use with flexible couplings shall have plain ends.
- H. Buried flanged or mechanical joints shall be made with Series 300, stainless-steel bolts. All exposed bolts shall be made with Series 300 stainless-steel bolts.
- I. Prior to assembly of split couplings, the grooves as well as other parts shall be thoroughly cleaned. The ends of the pipes and outside of the gaskets shall be moderately coated with petroleum jelly, cup grease, soft soap or graphite paste, and the gasket shall be slipped over one pipe end. After the other pipe has been brought to the correct position, the gasket shall be centered properly over the pipe ends with the lips against the pipes. The housing sections then shall be placed. After the bolts have been inserted, the nuts shall be tightened until the housing sections are firmly in contact, metal-to-metal, without excessive bolt tension.
- J. Prior to the installation of sleeve-type couplings, the pipe ends shall be cleaned thoroughly for a distance of 8". Soapy water may be used as a gasket lubricant. A follower and gasket, in that order, shall be slipped over each pipe to a distance of about 6" from the end, and the middle ring shall be placed on the already laid pipe end until it is properly centered over the joint. The other pipe end shall be inserted into the

middle ring and brought to proper position in relation to the pipe already laid. The gaskets and followers shall then be pressed evenly and firmly into the middle ring flares. After the bolts have been inserted and all nuts have been made up finger-tight, diametrically opposite nuts shall be progressively and uniformly tightened all around the joint, preferably by use of a torque wrench of the appropriate size and torque for the bolts

Submittal Instructions

Information to Be Submitted: All printed and electronic submittals must be received, as instructed on the first page of this RFP, prior to the opening date and time. Submittals must include and are requested to be organized as follows:

ALL COPIES:

- a. A history a description of the range of services offered by of the Proposer.
- b. Summaries or biographies of the required Proposer Staff that will be assigned to the County. Include name, background, special skills, number of years with the firm and years of experience. Identify the Proposer's representative assigned to manage the County's project.
- c. A list of projects with services such as those described within this RFP.
- d. References from the organizations your firm has provided the similar services for in the last five years. Please provide contact name, phone number, email address and project name.
- e. Printed Proposal Pricing Form (**no modification is allowed, to include an increase in decimal places for unit pricing**).
- f. Firm Information form
- g. Sworn statement on Disclosure of Relationships as per Section 105.08 of the Indian River County Code.
- h. Certification Regarding Prohibition Against Contracting with Scrutinized Companies
- i. Certification regarding lobbying
- j. Certification regarding debarment
- k. Sworn Statement Under the Florida Trench Safety Act
- l. County's Sample agreement with requested changes indicated, or statement that no changes are requested

ELECTRONIC FILES (sent directly or link provided to purchasing@indianriver.gov prior to RFP opening date and time):

- a. Full pdf of entire submittal
- b. Completed Excel Proposal Pricing Form (**must match printed copies submitted. No modification is allowed, to include an increase in decimal places for unit pricing**).

There is no page limit, however, please consider the committee's limited time and the need for Proposals to be concise. Images of licenses and certifications are not desired. Please provide only information relevant to the requested services, and please double-side where possible. A single page cover letter may be included, but is not requested or required.

Proposals should not be marked "confidential", "trade secret" or the like. Any information submitted that is exempt from disclosure, in accordance with Florida Statute, MUST be submitted in a separately sealed envelope, and include the reference in statute that authorizes the County to withhold that specific information from public record requests. The County reserves the right to not consider Proposals containing excessive exempt material, at the County's sole interpretation. This includes submittals summarily marked as exempt, confidential, or the like.

Method of Selection: The County shall convene a Selection Committee of which the responsibility shall be as follows:

- a. Independently review and evaluate each Submittal

1. Each Committee member shall evaluate each firm by assigning a number of points for each criterion, as established in the solicitation, and then totaling the number of points for all criteria.
 2. Each Committee member shall then rank the firms on the basis of the total number of points received for all criteria, with the firm receiving the most points being ranked # 1.
- b. As a "Committee of the whole", develop a combined ranking order of all Submittals meeting minimum qualifications. The ranking of firms shall be done in the following manner:
1. The rankings received by each firm from all Committee members shall be totaled and divided by the number of Committee members, to produce an average ranking.
 2. The firm receiving the lowest average ranking (i.e. closest to # 1) shall be ranked the # 1 firm, and the process repeated until all firms have been ranked according to their average ranking.
 3. In the event of a tie, the ranking of tied firms shall be determined by a comparison of the total number of points received by each firm from all Committee members. The firm with the highest number of points will be awarded the higher ranking position.
 4. The Committee may discuss the rankings and their reasons behind them, and each member may modify their ranking of firms accordingly until the Committee is satisfied with the rankings.
 5. After interviews (if interviews are held in an RFP process), and based upon information learned during the interviews, each Committee member will rank the firms in order of preference and a consolidated final Committee ranking established.
- c. The County may, solely at its own option, seek additional Submittals with this or a similar Submittal in the event the County, solely at its own option, determines that the quantity and/or quality of Submittals received is insufficient to meet the County's needs and/or that award of a contract arising from this RFP would not be in the public interest.
- d. The Committee shall forward its recommendations in accordance with the ranking to the Indian River County Board of County Commissioners, which shall, at its sole option, authorize negotiations of a contract pursuant to the requirements of Florida law.
- e. The Indian River County Board of County Commissioners possesses sole authority to award a contract for the services sought herein.

Criteria for Award:

EVALUATION CRITERIA	EVALUATION POINTS MAXIMUM
1. Firm qualifications/capabilities and similar projects	20
2. Staff qualifications	20
3. Similar Projects	15
4. Price Proposal	25
5. References	20
TOTAL	100

Anticipated Timeline

Event	Date
Advertise for Proposals	August 8, 2024
Deadline for Questions	September 1, 2024
Proposals Due before 2:00 p.m. on	September 10, 2024
Initial Selection Committee Meeting	Week of September 23, 2024
Interviews (if held)	Week of October 7, 2024
Recommendation of Award presented to BCC	October 22, 2024
Contract term commences	November 1, 2024

General Instructions

Cone of Silence. Potential respondents and their agents must not communicate in any way with the Board of Commissioners, County Administrator or any County staff other than Purchasing personnel in reference or relation to this solicitation. This restriction is effective from the time of solicitation advertisement until the Board of County Commissioners meets to authorize award. Such communication may result in disqualification.

Sealed Submittals and Envelope Markings: All responses shall be submitted in a sealed envelope or box. The outside of the envelope shall be clearly marked with the Proposer's Name and Return Address, Proposal #, Title, Date of opening, and Time of Opening.

Opening Location: Responses must be received by the Purchasing Division at 1800 27th Street, Vero Beach, FL 32960, on or before the closing hour and date listed in the Request for Proposals. Proposals submitted after the stated time and date will not be accepted or considered.

Public Record Exemption: Correspondence, materials, and documents received pursuant to this solicitation become public records subject to the provisions of Chapter 119, Florida Statutes. Should the proposer assert any exemptions to the requirements of Chapter 119, Florida Statutes, and related statutes, the burden of establishing such exemption, by the way of injunctive or other relief as provided by law, shall be upon the Proposer. To the extent records are redacted as requested by the Proposer in response to a public records request submitted to the County, Proposer shall indemnify and defend the County in any related litigation.

Taxes: Indian River County is exempt from any taxes imposed by State and / or Federal Government. Exemption Certificates, if required, are to be furnished by the successful Proposer and will be filled out by the County.

Indemnification: The Proposer shall defend, indemnify and hold harmless the County and its commissioners, officers, employees and agents, from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the design professional and other persons employed or utilized by the design professional in the performance of the contract.

Public Access: The Proposer shall comply with Florida's Public Records Law in accordance with the provisions of Chapter 119, Florida Statutes. Specifically, the Proposer shall keep and maintain public records that ordinarily and necessarily would be required by the County in order to perform the service. The Proposer shall provide the public with access to public records on the same terms and conditions that the County would provide the records at a cost that does not exceed the costs provided in Chapter 119 or as otherwise provided by law. The Proposer shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law. The Proposer shall meet all requirements for retaining public records and transfer, at no cost, to the County, all public records in possession of the Proposer upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County.

Public Entity Crimes: Pursuant to Florida Statutes Section 287.133(2)(a), all Proposers are hereby notified that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity (defined as the State of Florida, any of its departments or agencies, or any political subdivision); may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or

public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Florida Statutes Section 287.017 for CATEGORY TWO [currently \$35,000] for a period of 36 months from the date of being placed on the convicted vendor list. A "public entity crime" means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

Suspension and Debarment: Indian River County will not make award to parties listed on the government-wide exclusions in the System for Award Management (SAM). The Proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The Proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

Scrutinized Companies Lists: The Proposer certifies that it and those related entities of respondent as defined by Florida law are not on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 of the Florida Statutes, and are not engaged in a boycott of Israel. In addition, if this agreement is for goods or services of one million dollars or more, Contractor certifies that it and those related entities of respondent as defined by Florida law are not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473 of the Florida Statutes and are not engaged in business operations in Cuba or Syria. The County may terminate this Contract if Company is found to have submitted a false certification as provided under section 287.135(5), Florida Statutes, been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or been engaged in business operations in Cuba or Syria, as defined by section 287.135, Florida Statutes. County may terminate this Contract if Company, including all wholly owned subsidiaries, majority-owned subsidiaries, and parent companies, that exist for the purpose of making profit, is found to have been placed on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel as set forth in section 215.4725, Florida Statutes.

Accordingly, firms responding to this solicitation shall return with their response an executed copy of the attached "Certification Regarding Prohibition Against Contracting With Scrutinized Companies." Failure to return this executed form with submitted bid/proposal/statement of qualifications will result in the response being deemed non-responsive and eliminated from consideration.

Non-Discrimination: Indian River County will not knowingly do business with vendors or contractors who discriminate on the basis of race, color or national origin, sex, sexual orientation, gender identity, age and/or disability. Through the course of providing services to the County, Contractors shall affirmatively comply with all applicable provisions of Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987 and the Florida Civil Rights Act of 1992, as well as all other applicable regulations, guidelines and standards. Any person who believes their rights have been violated should report such discrimination to the County's Title VI/Nondiscrimination Coordinator through the office of the County Attorney.

E-Verify: Proposer must be registered with and use, at their sole expense, the Department of Homeland Security's E-Verify system (www.e-verify.gov) to confirm the employment eligibility of all newly hired employees, as required by Section 448.095, F.S. Owner, Proposer, and subcontractors may not enter into a

contract unless each party to the contract registers with and uses the E-Verify system. Proposer is responsible for obtaining proof of E-Verify registration for all subcontractors in the form of an affidavit, as described in Section 448.095(5)(b) F.S. This requirement applies to any provider of services or goods.

Local Preference: Indian River County has no local ordinance or preferences, as set forth in section 255.0991(2), Florida Statutes, in place, therefore no preference prohibited by that section will be considered in the acceptance, review or award of this solicitation.

Prohibition Against Considering Social, Political or Ideological Interests in Government Contracting: Proposers are hereby notified of the provisions of section 287.05701, Florida Statutes, as amended, that the County will not request documentation of or consider a Proposer's social, political, or ideological interests when determining if the Proposer is responsible. Proposers are further notified that the County's governing body may not give preference to a Proposer based on the Proposer's social, political, or ideological interests. Proposers shall not provide any information relating to these interests in their submittal.

Regulations: It shall be the responsibility of the Proposer to assure compliance with any OSHA, EPA and / or other Federal or State of Florida rules, regulations, or other requirements, as each may apply.

Interpretations: All questions about the meaning or intent of the Request for Proposals are to be submitted to the Purchasing Division (purchasing@indianriver.gov) ten (10) or more days before the date fixed for opening of the RFP. Interpretations, modifications, responses, or clarifications considered necessary by County in reply to such questions will be issued by Addenda. Only questions answered or changes made by Addenda will be binding. Oral and other interpretations, modifications, or clarifications will be without legal effect. All such Addenda shall become part of the RFP documents.

Applicable Law and Venue: Contract(s) resulting from this RFP and all rights and duties of the parties hereto shall be governed by the laws of the State of Florida, including but not limited to the provisions of the Florida Uniform Commercial Code Chapters 671-679 F.S., for any terms and conditions not specifically stated in this solicitation and resulting agreement. Venue for any lawsuit brought by either party against the other party or otherwise arising out of this Contract shall be in Indian River County, Florida, or, in the event of a federal jurisdiction, in the United States District Court for the Southern District of Florida.

Conflict of Interest: Any entity submitting a bid, proposal, qualifications or entering into a contract with the County shall disclose any relationship that may exist between the contracting entity and a County Commissioner or a County Employee. The relationship with a County Commissioner or a County Employee that must be disclosed is as follows: *father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, daughter-in-law, son-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, or grandchild*. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of the entity. The disclosure of relationships shall be a sworn statement made on a County approved form. Failure to submit the form will be cause for rejection of the bid or proposal.

Prohibition Against Contingent Fees: If a contract is entered resulting from this request for qualifications, it shall include a prohibition against contingent fees statement, as required by FS 255.087.

Right to Protest: Any actual or prospective responding Proposer who is aggrieved in connection with a competitive selection process may protest to the Purchasing Manager. The protest shall be submitted to the

Purchasing Manager in writing within five (5) calendar days after the bidder or proposer knows or should have known of the facts giving rise to the protest. If the protest is not resolved by mutual agreement, the Purchasing Manager shall promptly issue a decision in writing, after consulting the Department and the Office of the County Attorney.

Committee Meetings: Notice of committee meetings will be posted to the RFP's listing on Demandstar.com and Vendor Registry, both available through the County's web site (https://indianriver.gov/services/management_budget/purchasing/index.php). Any portion of a meeting pursuant to a competitive solicitation, at which negotiation strategies are discussed, a vendor makes an oral presentation, or answers questions as part of a competitive solicitation is exempt from the Public Meeting requirements in Chapter 286.011 (per Chapter 286.0113(1)(b)1).

Awards: The County reserves the right to cancel the solicitation, reject any and all Proposals or waive any irregularity or technicality in submittals received. The County reserves the right to not make any award(s) under this solicitation.

Termination by the County: The County reserves the right to terminate a contract by giving thirty (30) days notice, in writing, of the intention to terminate, if at any time the Proposer fails to abide by or fulfill any of the terms and conditions of the contract. The County also reserves the right to terminate this contract for convenience of the County and / or with or without cause.

Compliance with Laws and Regulations: Proposer agrees that they will comply with all Federal, State, and Local Laws and Regulations applicable to the production, sale, and delivery of the goods or the furnishing of any labor or services called for by this solicitation and resulting agreement, and any provisions required thereby to be included herein shall be deemed to be incorporated herein by reference. Noncompliance may be considered grounds for termination of contracts.

Insurance:

The Proposer shall provide, prior to execution of the contract, the insurance required under this section for approval by the County. Firm's insurance shall be primary. The County shall be named as an additional insured for both General Liability and Automobile Liability. The awarded firm shall maintain the following limits of insurance during the term duration of this agreement.

General Liability

Each Occurrence \$1,000,000
 Fire Damage-any one fire \$50,000
 Medical Expenses-any one person \$5,000
 Personal and Advertising Injury \$500,000
 General Aggregate \$2,000,000
 Combined Single Limit \$1,000,000

Automobile Liability – Combined Single Limit \$500,000

Worker's Compensation as required by the State of Florida

Each accident \$1,000,000
 Each Disease – Each employee \$1,000,000
 Each disease – policy limit \$1,000,000

The policy shall cover the firm, all employees, and/or volunteers, and all independent contractors, subcontractors and professional contractual persons hired or retained by contractor.

All above insurance policies shall be placed with insurers with a Best's rating of no less than A-VII. The insurer chosen shall also be licensed to do business in Florida. The insurance policies procured shall be "Claims Made" policies or as generally available on the open insurance market.

The Insurance Carriers shall supply Certificates of Insurance evidencing such coverage to the Indian River County Risk Management Department prior to the execution of this Agreement.

The insurance companies selected shall send written verification to the Indian River County Risk Management Department that they will provide 30 days written notice to the Indian River County Department of Risk Management of its intent to cancel or terminate.

Indian River County reserves the right to accept or reject any or all proposals in whole or in part and waive any and all any technicalities or irregularities.

FIRM INFORMATION

Communications concerning this proposal shall be addressed to:

Company Name			
Tax ID Number		W-9	Attached <input type="checkbox"/>
Contact Name		Phone	
Title		Email	
Address			

The following addenda are hereby acknowledged:

Addendum Number	Date
_____	_____
_____	_____
_____	_____
_____	_____

1. How many years has your organization been providing these services? _____
2. List State of Florida Registration Number(s): _____
3. Date Registered with e-Verify.gov: _____ Certificate # _____
4. List all ligation cases during the past three (3) years in which the Contractor has been a named party.
Use additional sheets, as necessary.

Year filed	Case number	Venue	Description

**SWORN STATEMENT UNDER SECTION 105.08, INDIAN RIVER COUNTY CODE,
ON DISCLOSURE OF RELATIONSHIPS**

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement **MUST** be submitted with Bid, Proposal or Contract No. 2025005
for Indian River County Department of Utility Services Labor Contract

2. This sworn statement is submitted by: _____

(Name of entity submitting Statement)

whose business address is:

_____ and its Federal Employer Identification Number (FEIN) is _____

3. My name is _____
(Please print name of individual signing)

and my relationship to the entity named above is _____

4. I understand that an “affiliate” as defined in Section 105.08, Indian River County Code, means:

The term “affiliate” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of the entity.

5. I understand that the relationship with a County Commissioner or County employee that must be disclosed as follows:

Father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, daughter-in-law, son-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, or grandchild.

6. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. [Please indicate which statement applies.]

_____ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the

entity, have any relationships as defined in section 105.08, Indian River County Code, with any County Commissioner or County employee.

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents, who are active in management of the entity have the following relationships with a County Commissioner or County employee:

Name of Affiliate or entity	Name of County Commissioner or employee	Relationship
_____	_____	_____
_____	_____	_____
_____	_____	_____

(Signature)

(Date)

STATE OF _____

COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this ____ day of _____, 20____, by _____ (name of person making statement).

(Signature of Notary Public - State of

Florida)

(Print, Type, or Stamp Commissioned Name of Notary Public)

who is personally known to me or who has produced _____ as identification.

**CERTIFICATION REGARDING PROHIBITION AGAINST CONTRACTING WITH
SCRUTINIZED COMPANIES**

(This form MUST be submitted with your response)

I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit have been placed on the Scrutinized Companies that Boycott Israel List created pursuant to s. 215.4725 of the Florida Statutes, or are engaged in a boycott of Israel.

In addition, if this solicitation is for a contract for goods or services of one million dollars or more, I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit are on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473 of the Florida Statutes, or are engaged in business operations in Cuba or Syria as defined in said statute.

I understand and agree that the County may immediately terminate any contract resulting from this solicitation upon written notice if the undersigned entity (or any of those related entities of respondent as defined above by Florida law) are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

Name of Respondent: _____

By: _____
(Authorized Signature)

Title: _____

Date: _____

CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned Firm certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Proposer, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

Signature of Proposer's Authorized Official

Name and Title of Proposer's Authorized Official

Date

Sworn Statement Under the Florida Trench Safety Act

THIS FORM MUST BE SIGNED BY THE BIDDER WHO WILL BE RESPONSIBLE FOR THE EXCAVATION WORK ("BIDDER"), OR ITS AUTHORIZED REPRESENTATIVE, IN THE PRESENCE OF A NOTARY PUBLIC AUTHORIZED TO ADMINISTER OATHS.

1. This Sworn Statement is submitted with RFP 2025005 for Utility Services Labor Contract.

2. This Sworn Statement is submitted by _____,
(Legal Name of Entity Submitting Sworn Statement)
hereinafter "PROPOSER". The PROPOSER's address is _____.

PROPOSER's Federal Employer Identification Number (FEIN) is _____.

3. My name is _____ and my relationship to the PROPOSER
(Print Name of Individual Signing)
is _____.
(Position or Title)

I certify, through my signature at the end of this Sworn Statement, that I am an authorized representative of the PROPOSER.

4. The Trench Safety Standards that will be in effect during the construction of this Project are contained within the Trench Safety Act, Section 553.60 et.seq. Florida Statutes, and refer to the applicable Florida Statute(s) and/or OSHA Regulation(s) and include the "effective date" in the citation(s). Reference to and compliance with the applicable Florida Statute(s) and OSHA Regulation(s) is the complete and sole responsibility of the PROPOSER. Such reference will not be checked by Owner or its representatives, and they shall have no responsibility to review or check the PROPOSER's compliance with the Trench Safety Standards.

5. The PROPOSER assures the Owner that it will comply with the applicable Trench Safety Standards.

6. The PROPOSER has allocated and included in its price proposal the amount of \$_____, per linear foot of trench to be excavated over five (5) feet deep, for compliance with the applicable Trench Safety Standards, and intends to comply with said standards by instituting the following specific method(s) of compliance on this Project: _____

The determination of the appropriate method(s) of compliance is the complete and sole responsibility of the PROPOSER. Such methods will not be checked by the Owner for accuracy, completeness, or any other purpose. The Owner and its authorized representatives shall have no responsibility to review or check the PROPOSER's compliance with the Trench Safety Standards.

7. The PROPOSER has allocated and included in its price proposal the amount of \$_____ per square foot of shoring, to be used for compliance with shoring safety requirements and intends to comply with said shoring requirements by instituting the following specific method(s) of compliance on this Project: _____

The determination of the appropriate method(s) of compliance is the complete and sole responsibility of the PROPOSER. Such methods will not be checked by the Owner for accuracy, completeness or any other purpose. The Owner and its representatives shall have no responsibility to review or check the PROPOSER's compliance with the Trench Safety Standards.

- 8. The PROPOSER will obtain and consider any available and/or necessary geotechnical information for each related task, to establish sufficient knowledge of each task's surface and subsurface site conditions and characteristics to assure PROPOSER's compliance with the applicable Trench Safety Standards in designing the trench safety system(s) for the Project.

PROPOSER: _____

By: _____

Position or Title: _____

Date: _____

STATE OF _____

COUNTY OF _____

Sworn to (or affirmed) and subscribed before me by means of physical presence or online notarization, this _____ day of _____, 20____, by _____

(name of person making statement).

(Signature of Notary Public - State of Florida)

(Print, Type, or Stamp Commissioned Name of Notary Public)

who is personally known to me or who has produced _____ as identification.