



City of North Port
PURCHASING

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WORK ASSIGNMENT

Stactec Consulting Services, Inc.

CONSULTANT

CONTINUING CONTRACT NO. & TITLE

Continuing Contract 2020-58-12 - Continuing Services for City of North Port Utilities

THIS WORK ASSIGNMENT

Table with 2 columns: Field Name and Value. Fields include WORK ASSIGNMENT # (2023-03), SHORT TITLE (Water Reclamation Facility Effluent Pipeline), DATE SUBMITTED (12/5/2022), AMOUNT (LUMP SUM) (\$494,980), SCHEDULED COMPLETION (TBD - see attached schedule).

CONTRACT AND BUDGET OVERVIEW FOR FISCAL YEAR 2023

Table with 3 columns: Description, DEPARTMENT, CITYWIDE (completed by Purchasing). Rows include TOTAL OF PREVIOUS ASSIGNMENTS, THIS WORK ASSIGNMENT, TOTAL WORK ASSIGNMENTS, and ACCOUNT NO/PROJECT NO.

All work assignments require City Manager approval. In presenting this work assignment, it is understood that:

- 1. All associated supporting documentation and justification for this work assignment is attached hereto.
2. Unless specified herein, work does not involve watercraft, boat piers and/or other activities requiring additional workers compensation endorsements.
3. Contact or involvement with hazardous materials is not anticipated, should hazardous materials be encountered, the City shall be informed.
4. THIS WORK ASSIGNMENT SHALL NOT EXCEED \$500,000 & ANY RESULTING CONSTRUCTION SHALL NOT EXCEED \$4,000,000 PER FLORIDA STATUTE 287.055 AS AMENDED.

SUBMITTED BY:

Tracy C Anderson [Signature] 12/09/2022
CONSULTANT DATE

APPROVED BY:

Nancy Gallinaro [Signature]
DEPARTMENT DIRECTOR DATE
Ginny Duyn [Signature]
PURCHASING DATE
Assistant City Manager DATE

Lisa Herrmann [Signature]
BUDGET ADMINISTRATOR DATE
Lisa Herrmann [Signature]
FINANCE DIRECTOR DATE
CITY MANAGER DATE

Print Form

Clear All Fields



EXHIBIT “A”

CITY OF NORTH PORT AGREEMENT CONTRACT #2020-58-12 PROFESSIONAL ENGINEERING SERVICES – CONTINUING CONTRACTS FOR CITY OF NORTH PORT UTILITIES

Water Reclamation Facility Effluent Pipeline

(RLOI 2023-03)

Work Assignment #2023-03

SCOPE OF SERVICES

Introduction

City of North Port Utilities (NPU) has requested engineering services from Stantec Consulting Services Inc. (Stantec) for the design, permitting, procurement, and limited inspection during construction for a new effluent pipeline from the City’s Water Reclamation Facility (WRF) on Pan American Boulevard to their deep injection wells. The new effluent pipeline, in combination with an existing effluent pipeline, is intended to allow full flow from the plant at design and maximum flows.

It may be possible to construct a segment of the new effluent pipeline within a utility easement on Southwest Florida Water management District (SWFWMD) property. This is contingent upon Peace River Manasota Regional Water Supply Authority (PRMRWSA) being successful in discussions with SWFWMD to obtain an easement and for SWFWMD to also agree to allow NPU to either co-locate the effluent main within the easement or to obtain an adjacent easement dedicated to NPU. Stantec has included budget for coordination and meetings with SWFWMD and PRMRWSA for this effort in this scope of work.

Scope of Services

Task 1.0 – Design and Permitting Phase Services

Sub-Task 1.1 – Project Management and Coordination

Stantec will coordinate with NPU to obtain information necessary for design and permitting of the improvements, attend meetings with NPU staff, perform a route evaluation, complete preliminary engineering surveys, and provide design and permitting services. Stantec will participate in project meetings detailed in this Scope of Services throughout the duration of the project. In-person meetings and virtual Teams meetings will both be considered acceptable meeting platforms

- 1.1.1 **Project Management:** Stantec will provide project management activities as described in this section, including resource management, coordination with subconsultants, project controls, and activities as required throughout the duration of the project.



Stantec will manage project staff and coordinate with NPU for the project in accordance with Stantec's standard of practice. Stantec will also provide administrative services of support to project staff.

- 1.1.2 Kick-Off Meeting: Stantec will attend a kick-off meeting with NPU upon issuance of a notice to proceed. Discussions will include NPU's expectations; pipeline alignment evaluation; preferences for size, material, and installation methods for the water mains; permitting requirements; and other concerns.
- 1.1.3 Alignment Evaluation Workshop: Stantec will attend an alignment evaluation workshop with NPU following their evaluation of up to three potential route alignments for the effluent pipeline presented in the Alignment Evaluation Technical Memorandum prepared in Sub-Task 1.2. The alignment preferred by NPU will then be field surveyed and preliminary engineering data will be collected to support design.
- 1.1.4 Charlotte County Utility Permit Coordination: Stantec will attend up to two meetings with NPU and Charlotte County to coordinate the locating of NPUs effluent pipeline and appurtenances facilities within Charlotte County right-of-way.
- 1.1.5 SWFWMD Easement Coordination: Stantec will attend up to three meetings with NPU, SWFWMD, and PRMRWSA to review the potential acquisition of a shared utility easement from SWFWMD for the benefit of NPU and PRMRWSA. This sub-task will only be used if the alignment preferred by NPU is on SWFWMD property.
- 1.1.6 60-Percent Design Review Meeting: Stantec will attend a meeting with NPU after their review of the 60-percent design submittal. NPU's comments on the submittal and proposed resolutions to the comments will be discussed at this meeting.
- 1.1.7 90-Percent Design Review Meeting: Stantec will attend a meeting with NPU after their review of the 90-percent submittal. NPU's comments on the submittal and proposed resolutions to the comments will be discussed at this meeting.

Sub-Task 1.2 – Alignment Evaluation

Stantec will evaluate up to three effluent pipeline alignments. This evaluation will be conducted concurrent with Sub-Task 1.3 – Preliminary Engineering.

The evaluation will be presented in an Alignment Evaluation Technical Memorandum that will summarize the advantages and disadvantages of each alignment considering:

- City of North Port right-of-way
- Charlotte County right-of-way
- Easement requirements
- Existing utilities
- Known future utility improvements by PRMRWSA and CCU
- Utility clearances and separation requirements



- Road paving program and pavement restoration requirements
- Special crossings and/or construction methods
- Permits
- Probable construction costs
- Environmental constraints

It is assumed that the proposed effluent pipeline will exit the WRF to Pan American Drive; continue south on Pan American Drive past South Biscayne Drive where it will cross the Myakkahatchee Creek and continue south on Kenwood Drive towards Charlotte County. Once in Charlotte County, there are several possible routes for the effluent pipeline to reach the Deep Injection Well. It is estimated that the total route could be approximately 18,300 LF.

Stantec will deliver the following to NPU for the Alignment Evaluation submittal:

- Electronic PDF copy of the Alignment Evaluation Technical Memorandum

Sub-Task 1.3 – Preliminary Engineering

Following the Alignment Evaluation Workshop (Sub-Task 1.1.3) and selection of the preferred effluent pipeline route, Stantec will begin the preliminary engineering phase of the project to obtain information necessary for designing and permitting the project. Stantec will coordinate with internal staff and sub-consultants to obtain the preliminary engineering information outlined below.

The preliminary engineering sub-task does not include collection of data within the potential SWFWMD easement. Should PRMRWSA be successful obtaining an easement that NPU can co-locate the effluent pipeline within, it is anticipated that PRMRWSA will collect and provide topography survey and geotechnical soil borings necessary for design and the environmental investigation necessary for permitting.

1.3.1 Topographic Survey: Stantec will complete topographic surveys in accordance with Chapter 5J-17 of the Florida Administrative Code (“Standards of Practice for Surveyors and Mappers”). The horizontal datum will be based on the North American Datum of 1983 (NAD 83), Florida State Plane, West Zone, and will be derived from real-time kinematic GPS observations. The vertical datum will be derived from real-time kinematic GPS observations referenced to the nearest published NGS benchmark. Roadway rights-of-way will be established based on found monumentation.

The topographic survey will include the full paved width of roadways. On the sides of the roadways where the effluent pipeline will be constructed, the survey will include the unpaved area extending from the edge of pavement to the edge of right-of-way. Where lots on the opposite side of the roadway from the proposed effluent pipeline are occupied, topographic survey will be performed to the lot corners.

Topographic survey will include cross sections every 100 feet (±) and where there is a major break in grade; locations of visible improvements; trees greater than 4½ inches in diameter;



and as-built data for storm and sanitary sewer structures. The topographic survey for waterway crossings will also include elevations of the channel bottoms adjacent to the bridges and/or the selected pipeline alignment.

1.3.2 Environmental Investigations: Stantec ecologists will conduct a data search of public domain resources to determine if the project area includes any previously inventoried wetlands or protected wildlife habitat (including nest sites, buffer zones, etc.). Such resources will include the National Wetland Inventory (NWI), Florida Natural Areas Inventory (FNAI), Sarasota County, SWFWMD, Florida Department of Environmental Protection (FDEP), Florida Fish and Wildlife Conservation Commission (FWCC), U.S. Fish and Wildlife Service (USFWS), and City of North Port. Stantec ecologists will conduct one site visit to witness habitats and record wildlife observations within and adjacent to the proposed project boundary. Information obtained will be used in the preparation of the FDEP Environmental Resource Permit application for the project. Findings that impact the design or construction of the effluent pipeline will be depicted on the construction drawings.

1.3.3 Geotechnical Investigations: Stantec will retain a sub-consultant for professional geotechnical engineering services.

The sub-consultant will obtain information on subsurface conditions along the alignments of the effluent pipeline. This will include both reviewing published soils and topographic information and completing subsurface exploration.

- Review of Published Soils and Topographic Information

Sub-consultant will review information obtained from Florida Quadrangle Maps published by the United States Geological Survey (USGS) and the Soil Survey of Sarasota County published by the United States Department of Agriculture Natural Resources Conservation Service (USDA NRCS).

- Subsurface Exploration

Standard Penetration Test (SPT) borings, subsurface sampling, and field testing will be performed at locations selected by Stantec along the proposed effluent pipeline alignment.

Groundwater levels for each SPT boring will be recorded. SPT resistances (“N” counts) will be recorded continuously to a depth of 10 feet and then at intervals of 5 feet thereafter. SPT boring samples will be collected and visually classified in a laboratory using the Unified Soil Classification System (USCS). Laboratory testing will be completed as determined necessary by the geotechnical engineer to confirm the visual classifications. Groundwater level measurements will be recorded when groundwater is encountered.

The budgeted SPT borings are:



- Up to three SPT borings to 60 feet below existing grade to support an anticipated HDD bore crossing the waterway and US 41 on Pan American Boulevard near the WRF and US 41.
- Up to six SPT borings to 50 feet below existing grade to anticipated HDD bores crossing waterways at locations to be determined.
- Up to six SPT borings to 25 feet below existing grade to anticipated HDD bores crossing roadways at locations to be determined.
- Up to 18 SPT boring to 8 feet below existing grade to support open cut construction.

The sub-consultant will provide a report summarizing the work completed, the field data generated, and the subsurface conditions encountered. This report will be utilized by Stantec's trenchless team when designing the HDD bores and will be provided to the contractor for their use during construction.

Stantec will deliver the following to NPU for the Geotechnical Investigation submittal:

- Electronic PDF copy of the Geotechnical Investigation Report

1.3.4 Subsurface Utility Engineering: Stantec will retain a sub-consultant for professional subsurface utility locate services. Services to be provided by the sub-consultant are:

- Prepare and request appropriate permits from governmental agencies for the purpose of marking, measuring, and recording the location of underground utilities within the project area.
- Provide traffic control within the work areas while designating and locating the subsurface utilities. Traffic control will be maintained in accordance with applicable standards and will include providing safety devices, signs, and/ other safety equipment.
- Utilizing conventional electronic designating equipment and Ground Penetrating Radar (GPR), designate and mark the horizontal location of found underground utilities at limited locations along the selected pipeline route.
- Provide test holes (VVH – verified vertical and horizontal) on critical utility lines in conflict with the proposed effluent pipeline at up to 12 locations.
- For each test hole, neatly cut and remove existing pavement (not to exceed 225 square inches per cut) or other surface material. Excavate the material through the cut down to the utility in a way that prevents damage to wrappings, coatings, or other protective coverings of the utilities (e.g., vacuum/pressure excavations, hand digging, etc.). Backfill and compact with select material around the utility. Provide a restoration of the surface pavement, within the limits of the cut, at the time of the backfill.
- Coordination with the surveyor for collection of found utility information and provide a Surveyor's Report reflecting WH test hole information depicting the designation and WH test hole information. The Consultant shall add this information to the topographic survey.

Stantec will deliver the following to NPU for the Subsurface Utility Engineering Investigation submittal:



- Electronic PDF copy of the field data report identifying the utilities located with horizontal and vertical data.

Sub-Task 1.4 – 60-Percent Design Submittal and Permitting

Stantec will begin work on the 60-percent design submittal and permitting following the Alignment Evaluation Workshop (Sub-Task 1.1.3). The work performed by Stantec for the 60-percent design submittal will be:

- PRMRWSA and Charlotte County Design Coordination

Stantec will coordinate the design of the effluent pipeline through Charlotte County with both CCU and PRMRWSA. The design coordination will be to locate the proposed effluent pipeline with existing and future CCU infrastructure and the PRMRWSA Phase 2B Pipeline.

- Utility Coordination

Stantec will submit a Sunshine State One Call design ticket to obtain the contact information for existing utility owners with facilities within the area. Information received from utility owners will be used to update the basemap on the construction drawings prepared by Stantec.

- HDD Design

Calculations for HDD design will be performed by Stantec’s trenchless team for the waterway crossing and US 41 on Pan American Boulevard near the WRF up to three waterway crossings, and one roadway crossing. Calculations will include ground surface and utility settlement or heave estimates, pipe stress analysis, and hydro-fracture factor of safety estimates.

- 60-Percent Design Construction Drawings

Stantec will prepare construction drawings that is consistent with the industry standard for a 60-percent design level plan set. The effluent pipeline design will be based on the preferred alignment along with the field data collected, record drawing information, site observations, information received from utility owners, and regulations applicable to the construction of effluent pipelines.

Plan and profile view drawings will be prepared for effluent pipeline to show the horizontal and vertical alignment. The horizontal scale will be 1” = 20’ and the vertical scale for the profiles will be 1” = 5’.

It is anticipated that the following sheets will be included:

Sheet	Sheet Description
G-001	Cover
G-002	General Notes, Abbreviations, and Symbols
C-101	Key Sheet



Sheet	Sheet Description
C-102 – C-142	Plan and Profiles
C-501 – C-504	Standard Details
C-505	Best Management Practices

The latest revision of NPU’s standard details will be incorporated into the drawings. Project-specific details will be developed to supplement NPU’s standard details when necessary.

- 60-Percent Design Technical Specifications

Stantec will prepare a complete set of technical specifications that incorporate NPU’s standard technical specifications to the extent practical. Project-specific technical specifications will be developed to supplement NPU’s standard technical specifications when needed.

It is anticipated that the following project-specific technical specifications will be prepared by Stantec:

Section Number	Title
00 90 00	Revisions, Clarifications, and Modifications
01 10 00	Summary of Work
01 20 00	Measurement and Payment
01 30 00	Shop Drawings, Samples, and Submittals
31 25 00	Erosion and Sedimentation Control
33 05 05.31	Hydrostatic Testing

- 60-Percent Design EOPCC

An engineer’s opinion of probable construction cost (EOPCC) will be prepared based on the plan quantities and available unit costs from previously bid projects for each bid item. The line items listed in the EOPCC will reflect the bid items that Stantec proposes to be included in the Issued for Bid submittal.

- Permitting

Stantec will prepare and submit two permit applications:

- Florida Department of Environmental Protection (FDEP) Notice of Intent to Use an Environmental Resource General Permit (ERP)
- Florida Department of Environmental Protection (FDEP) Wastewater Permit

The permit applications will be submitted to NPU for signature as part of the 60-percent design submittal. NPU is to sign and return the applications to Stantec.

Stantec will submit the completed permit applications to the permitting agencies for review. The 60-percent design drawings will be used for the permit submittals. The drawings will be edited to include an “Issued for Permit/Not for Construction” stamp and will be signed and



sealed by a Professional Engineer licensed in Florida. NPU is to provide payment for the permit review fees. This may be either check made out to the permitting agencies that Stantec will submit with the with the permit submittal or payment made electronically to the permitting agency after the applications are submitted.

Stantec will respond to requests for additional information from the permitting agencies. This scope of work assumes that no more than one request for additional information will be received for each permit application.

This scope of services assumes:

- No site visits will be required by regulatory agency staff.
- There will be no permanent wetland impacts and mitigation permitting will not be required.
- There will be no permanent impacts that require a 404 permit review under the state-assumed 404 process.
- Listed wildlife surveys and/or permitting are not required.

A QA/QC review by the project manager and an independent technical review by a senior engineer will be completed for the drawings, technical specifications, and EOPCC prior to completion of the 60-percent design submittal.

Stantec will deliver the following to NPU for the 60-percent submittal:

- Hard copies of the following permit applications for signature by NPU:
 - FDEP Notice of Intent to Use an Environmental Resource General Permit (ERP)
 - FDEP Wastewater Permit
- Electronic copies of the following 60-percent design milestone items:
 - Drawings in PDF format
 - Technical specifications in PDF
 - Permits applications in PDF format
 - EOPCC in PDF format
 - Geotechnical report in PDF format
 - SUE report in PDF format

Sub-Task 1.5 – 90-Precent Design Submittal

Stantec will begin work on the 90-percent design submittal following 60-percent design review meeting with NPU. The work performed by Stantec for the 90-percent design submittal will be:

- 90-Percent Design Construction Drawings

The 60-percent design drawings will be used to prepare the 90-percent design drawings. Stantec will make revisions based on comments received from NPU and permitting agencies and to add sufficient detail to satisfy the industry standard for 90-percent design drawings.



- **90-Percent Design Technical Specifications**

The 60-percent design technical specifications will be used to prepare the 90-percent design technical specifications. Stantec will make revisions based on comments received from NPU and permitting agencies and to add sufficient detail to satisfy the industry standard for 90-percent design technical specifications.

- **90-Percent Design EOPCC**

The 60-percent design EOPCC will be revised to revised to reflect changes made to the construction drawings and technical specifications and to incorporate additional cost data if any has become available.

A QA/QC review by the project manager and an independent technical review by a senior engineer will be completed for the drawings, technical specifications, and EOPCC prior to completion of the 90-percent design submittal.

Stantec will deliver the following to NPU for the 90-percent submittal:

- Electronic copies of the following 90-percent design milestone items:
 - Drawings in PDF format
 - Technical specifications in PDF
 - EOPCC in PDF format
 - Geotechnical report in PDF format
 - SUE report in PDF format

Sub-Task 1.6 – Issued for Bid Design Submittal

Stantec will begin work on the Issued for Bid submittal following 90-percent design review meeting with NPU. The work performed by Stantec for the Issued for Bid submittal will be:

Construction drawings and technical specifications with sufficient detail to be issued for bidding will be prepared. These will be based on the those prepared for the 90-percent design submittal, with revisions to address comments received from NPU and the permitting agencies. The 90-percent EOPC will be updated to reflect changes made to the design. A bid form for use by bidders when submitting their bids will be prepared based on the bid items listed in the EOPC.

- **Issued for Bid Construction Drawings**

The 90-percent design drawings will be used to prepare the Issued for Bid drawings. Stantec will make revisions based on comments received from NPU and to add sufficient detail to issue the advertise the work for bid by contractors.

- **Issued for Bid Technical Specifications**



The 90-percent design technical specifications will be used to prepare the Issued for Bid technical specifications. Stantec will make revisions based on comments received from NPU and to add sufficient detail to advertise the work for bid by contractors.

- Issued for Bid EOPCC and Bid Form

The Issued for Bid EOPCC will be revised to reflect changes made to the construction drawings and technical specifications and to incorporate additional cost data if any has become available.

Stantec will also prepare a bid form for use by contractors when preparing bids during the procurement phase.

- Construction Duration Estimate

Stantec will prepare an estimate of the number of days needed for construction. This will be based on Stantec's experience with similar construction projects. The estimated construction duration will be communicated to NPU when the Issued for Bid submittal is delivered.

A QA/QC review by the project manager and an independent technical review by a senior engineer will be completed for the drawings, technical specifications, and EOPCC prior to completion of the Issued for Bid submittal.

Stantec will provide the following to NPU for the Issued for Bid submittal:

- Electronic copies of the following Issued for Bid items:
 - Digitally signed and sealed Issued for Bid drawings in PDF format
 - Digitally signed and sealed Issued for Bid technical specifications in PDF format with the following attachments:
 - Geotechnical report
 - SUE report
 - SWFWMD/FDEP ERP
 - FDEP Wastewater Permit
 - Bid Form in Microsoft Excel format
 - EOPCC in PDF format

The Issued for Bid drawings and technical specifications will be digitally signed and sealed by a Professional Engineer licensed in Florida in accordance with Rule 61G15-23.004, F.A.C.

Task 2.0 – Procurement Phase Services

Stantec will provide services to support NPU and the City of North Port Procurement Department during the procurement process. This work is described below.



2.1 Services During Procurement

Stantec will attend one pre-bid meeting at City Hall. The meeting will be led by the City of North Port Procurement Department and NPU. Stantec will discuss the scope of work and respond to technical questions asked during the meeting.

Stantec will assist the Procurement Department in preparing addendums during bidding. The Procurement Department will prepare a draft addendum in Word format. The draft addendum will have all technical questions from bidders inserted into the document and spaces will be provided for responses by Stantec. Stantec will prepare written responses to the technical questions and will then return the addendum to the Procurement Department to be finalized and distributed to bidders. This scope of work assumes that no more than two addendums will be issued during bidding.

2.2 Bid Review and Award Recommendation

Following the bidding process, the Procurement Department will review all bids for responsiveness. All responsive bids will then be provided to Stantec in PDF format. Stantec will prepare a bid tabulation summarizing the responsive bids. Stantec will review the apparent low bid for conformance with the bidding requirements and will contact three references for the apparent low bidder. Stantec will prepare a letter summarizing the findings and (if appropriate) recommending award to the apparent low bidder.

3.0 Construction Phase and Certification Services

The work is to be constructed by a general contractor who will be responsible for all aspects of the work. Stantec will provide services to support NPU during the construction phase. The work included in this effort is discussed below.

3.1 Issued for Construction Documents

Stantec will prepare conformed Issued for Construction drawings and technical specifications. These will be based on the Issued for Bid plans and technical specifications, with revisions made to incorporate the changes and clarifications from addendums issued during bidding.

Stantec will provide the following to NPU for the Issued for Construction submittal:

- Electronic copies of the following Issued for Construction items:
 - Digitally signed and sealed Issued for Construction drawings in PDF format
 - Digitally signed and sealed Issued for Construction technical specifications in PDF format with the following attachments:
 - Geotechnical report
 - SUE report
 - SWFWMD/FDEP Environmental Resource Permit



The Issued for Construction drawings and technical specifications will be digitally signed and sealed by a Professional Engineer licensed in Florida in accordance with Rule 61G15-23.004, F.A.C.

3.2 Pre-construction Meeting

Stantec will attend a pre-construction meeting to be held at a location within the City of North Port chosen by NPU.

This scope of services assumes that the pre-construction meeting will be led by NPU, including preparation of agenda and meeting minutes. Progress meetings are assumed to be led by NPU and no deliverables by Stantec are included in this task.

3.3 Submittals and Shop Drawing Review

Stantec will review contractor submittals for conformance with the bid documents. This scope of services assumes the following submittals will be reviewed by Stantec:

- Preliminary Submittals:
 - Severe Storm and Hurricane Preparedness Plan
 - Working Schedule (Preliminary Progress Schedule)
- Informational Submittals:
 - Construction Progress Schedule
 - Maintenance of Traffic (MOT) Plan
 - Draft As-Built Drawings
 - Final As-Built Drawings
 - Color Audio-Video Preconstruction Record
 - Density Test Results
 - Hydrostatic Testing Plan
 - Certification Documentation for HDPE Fusion Welders
 - HDD Construction Drawings/Bore Plan
 - HDD Pipe Stress Calculations
 - HDD Maximum Allowable Drilling Fluid Pressure Calculations
 - HDD Quality Control Methods
 - HDD Hazardous Chemical List and Safety Data Sheets
 - Horizontal Directional Drilling Bore Logs
- Material and Product Submittals:
 - Erosion and Sediment Control Materials
 - Seed or Sod
 - PVC Pipe for Effluent Pipeline
 - Bell Restraints for PVC Pipe with Push-On Joints



- Mechanical Joint Restraints for PVC Pipe
- Gate Valves
- Valve Boxes
- Air Release Valve Assemblies
- HDPE Pipe
- HDPE MJ Adapters and Accessories
- Type 316 Stainless Steel Stiffeners
- Ductile Iron Fittings
- Polyethylene Wrap for Ductile Iron Fittings
- Tracer Wire
- Tracer Wire Test Station Boxes
- Effluent Water Main Metallic Identification Tape
- Brass Tags

This scope of services assumes that review of eight re-submittals will be required.

This scope assumes that shop drawings will be submitted electronically to Stantec and that Stantec will return reviewed submittals electronically via email. It is also assumed that the contractor will be responsible for preparing and maintaining the submittal log.

3.4 Requests for Information and Contractor Change Orders

Stantec will prepare responses to requests for information (RFIs) received during construction. The Contractor will be required to submit RFIs using a standard RFI form. This scope assumes that Stantec will provide responses to RFIs electronically via email. It is also assumed that the contractor will be responsible for preparing and maintaining an RFI log.

Stantec will assist NPU with contractor change orders. This scope assumes that the change orders will be prepared by NPU or the contractor and that Stantec's responsibility will be limited to reviewing the scope and the fee for each proposed change order and providing recommendations to NPU. It is assumed that the contractor will be responsible for preparing and maintaining a change order log.

This scope of services assumes Stantec will respond to up to four RFIs.

This scope of service assumes that two change orders will be reviewed.

3.5 – Pressure Testing and Walk-Throughs

Stantec will observe the two-hour hydrostatic pressure tests required by the contract documents for certification. This scope of work assumes that the contractor will perform pressure tests in up to four separate segments of the effluent pipeline on separate days.



Upon successful completion of hydrostatic pressure and receipt of the signed and sealed as-built drawings from the contractor that are suitable for submittal to permitting agencies, Stantec will submit permit closeout/certification documents to FDEP. This scope of work assumes that one final certification will be submitted.

Stantec will participate in a punch-list walk-through for the effluent pipeline once the contractor has achieved substantial completion. This scope of work assumes the walk-through for entire effluent pipeline will occur on one day.

Sub-Task 3.6 – Record Drawings and Closeout

Stantec will prepare Record Drawings using redline as-built drawings and field survey provided by the contractor. Stantec will provide the following to NPU:

- Electronic copies of the following:
 - Digitally signed and sealed Record Drawings in PDF format
 - AutoCAD file of the Record Drawings in DWG format

The Record Drawings in PDF format will be digitally signed and sealed by a Professional Engineer licensed in Florida in accordance with Rule 61G15-23.004, F.A.C.

This scope of work assumes that the contractor will provide complete as-built drawings that are signed and sealed by a surveyor licensed in Florida, an AutoCAD DWG file prepared by the surveyor with as-built field survey data, as-built redline drawings, and swing-tie tables for all valves and fittings.

Scope Assumptions and Clarifications

This scope of work includes the following assumptions:

- NPU will designate a project manager who will serve as the primary contact throughout the project and who will work to provide prompt responses to inquiries from Stantec.
- NPU will provide record drawings and/or utility locates along the effluent pipeline route.
- All permit fees will be paid by City of North Port.
- Permitting agencies will issue permits within 30 days of receipt of the permit applications.
- Other permits not included in this scope that are necessary will be obtained by others.
- Casings and starter casings or other forms of structure/utility support will not be required for the effluent main installed by horizontal directional drilling.
- The contractor will be responsible for developing and implementing maintenance of traffic (MOT) measures during construction.
- All work associated with the adjustment or relocation of existing utilities will be the responsibility of the contractor.
- NPU will assign a qualified inspector who is knowledgeable of the work and will provide the periodic construction observation during the construction phase.



The services provided by Stantec under this Work Assignment will be limited to those items described herein. Items that are excluded from the scope include but are not limited to:

- U.S. Army Corps of Engineer permits
- FDEP 404 State permits
- City of North Port right-of-way use permits
- Boundary surveys
- Sketch and Legal Descriptions for easements
- Cultural resource assessment survey
- Wetland delineations
- Contamination assessment
- Hydraulic modeling or pipeline sizing
- Design of trenchless installation other than by HDD methods as described herein
- Review of contractor Applications for Payment



Schedule

The following schedule is proposed:

<u>Task</u>	<u>Weeks to Complete</u>	<u>Weeks from Kick-Off</u>
Receipt of Requested Data and Kick-Off Meeting	0	1
Alignment Evaluation	4	5
Alignment Evaluation Workshop *	2	7
Preliminary Engineering (Field Data)	7	14
60-percent Milestone	14	28
City Review and Meeting *	1	29
90-Percent Milestone	5	34
City Review and Meeting *	1	35
Permit Submittal	3	30
Permitting Agency Review *	4	34
Issued for Bid Submittal	TBD	TBD
Bid Phase Services	TBD	TBD
Construction Phase Services	TBD	TBD

* City and Permitting Agency Review time is an estimate. Agency review time depends on the agency and is beyond the control of Stantec.

Fees

Task	Fee Type	Fee
Task 1.0 - Design and Permitting Phase		
1.1 Project Management and Coordination	Fixed	\$14,884.00
1.2 Alignment Evaluation	Fixed	\$20,376.00
1.3 Preliminary Engineering		
1.3.1 Topographic Survey	Fixed	\$50,765.00
1.3.2 Environmental Investigation	Fixed	\$2,576.00
1.3.3 Geotechnical Investigations	Fixed	\$58,884.00
1.3.4 Subsurface Utility Engineering	Fixed	\$20,490.00
1.4 60 % Design Submittal and Permitting	Fixed	\$212,898.00
1.5 90 % Design Submittal	Fixed	\$43,497.00
1.6 Issued for Bid Design Submittal	Fixed	\$11,804.00
Task 2.0 – Procurement Phase Services	Fixed	\$6,530.00
Task 3.0 – Construction Phase Services	Fixed	\$52,276.00
Total Fee		\$494,980.00

See Exhibit B for a summary of hours and fees.

