



City of North Port
PURCHASING

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STANTEC WORK ASSIGNMENT
Stantec 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 # (2023-01), SHORT TITLE (2022 Water Distribution Improvements & Pipeline Bridge Replacements), DATE SUBMITTED (11/10/2022), AMOUNT (LUMP SUM) (\$163,041.82), SCHEDULED COMPLETION (TBD - See attached schedule).

CONTRACT AND BUDGET OVERVIEW FOR FISCAL YEAR 2023

Table with 3 columns: Field Name, DEPARTMENT, CITYWIDE. Fields include TOTAL OF PREVIOUS ASSIGNMENTS (\$0.00), THIS WORK ASSIGNMENT (\$163,041.82), TOTAL WORK ASSIGNMENTS (\$163,041.82), ACCOUNT NO/PROJECT NO (420-6061-533-6300: U21WBR(\$93,340.82)/U22WDI(\$69,701.00)).

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:

Stephen C MacEachern 11/15/2022
CONSULTANT DATE

APPROVED BY:

Nancy Gallinaro
DEPARTMENT DIRECTOR DATE
Ginny Duyn
PURCHASING DATE
Assistant City Manager DATE

Lisa Herrmann
BUDGET ADMINISTRATOR DATE
Kimberly Williams
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

2023 Water Distribution System Improvements and Pipeline Bridge Replacements
(RLOI 2023-01 and 2023-02)
Work Assignment #~~2023-01~~ **WA 2023-01**

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 construction phases and for certification services for new and replacement potable water mains. The project is intended to complete water main loops along four streets where dead ends currently exist and to replace existing bridge-mounted water mains with new water main installed by horizontal directional drilling (HDD) methods along another street.

The four areas where water main loops will be completed are:

- Lubec Avenue: Approximately 600 linear feet of 6-inch potable water main will be constructed on the north side of Lubec Avenue between S Salford Boulevard and Sargent Street. Connections to existing water mains will be at:
 - An existing 6-inch valve at the northwest corner of the intersection of Lubec Avenue and S Salford Boulevard; and
 - An existing 6-inch valve at the northeast corner of the intersection of Lubec Avenue and Sargent Street.

- Lundale Avenue: Approximately 390 linear feet of 6-inch potable water main will be constructed on the north side of Lundale Avenue between N Salford Boulevard and Petronia Street. Connections to existing water mains will be at:
 - An existing 12-inch water main on the west side of N Salford Boulevard; and
 - An existing 6-inch valve at the southwest corner of Lundale Avenue and Petronia Street.

- Okolona Street: Approximately 340 linear feet of 6-inch potable water main will be constructed on the east side of Okolona Street between Ozark Avenue and McCracken



Avenue. Connections to existing water mains will be at:

- An existing 6-inch valve on the north side of Ozark Avenue at the intersection with Okolona Street; and
 - An existing 6-inch valve at the southeast corner of the intersection of Okolona Street and McCracken Avenue.
- Portage Street: Approximately 665 linear feet linear feet of 6-inch potable water main will be constructed on the east side of Portage Street between Mulgrave Avenue and Ozark Avenue. Connections will be at:
 - An existing 6-inch valve on the north side of Mulgrave Avenue at the intersection with Portage Street;
 - At an existing 6-inch valve at the northeast corner of the intersection of Portage Street and Lubec Avenue; and
 - At an existing 6-inch valve at the northeast corner of the intersection of Portage Street and Ozark Avenue.

The location where bridge-mounted water main replacements will occur is:

- Appomattox Drive: Existing 12-inch ductile iron pipe potable water mains mounted on the north side the Appomattox Drive bridges over Big Slough Canal and Myakkahatchee Creek will be removed. These two bridges are located between Mill Run Court and North Port Boulevard. Approximately 600 linear feet of 14-inch HDPE potable water main installed by HDD methods will constructed to replace these bridge-mounted water mains. Short sections of 12-inch PVC water main with ductile iron fittings will be installed by open cut methods to connect the new HDPE water main to the existing water mains that will remain in service on the east and west sides of the bridges. The existing water mains are a 12-inch asbestos cement water main on the west side of the bridges and 12-inch PVC water main on the east side of the bridges. The existing water main installed by open cut between the two bridges will be abandoned in place.

Scope of Services

1.0 **Design and Permitting Phase Services**

Stantec will prepare drawings, technical specifications, and an engineer's opinion of probable construction cost (EOPCC) for the new water mains. Stantec will also prepare and submit permit applications for the work. The work included in this effort is discussed in detail below.



1.1 Coordination Meetings

Stantec will attend three coordination meetings with NPU staff during the design and permitting phase:

- NPU Kick-Off Meeting and Site Walk: Stantec will attend a meeting with NPU staff. The kick-off meeting is to occur upon issuance of a notice to proceed. Discussions will include NPU's expectations; preferences for size, material, and installation methods for the water mains; permitting requirements; and other concerns.

Following the meeting, an on-site design charrette will be held. Representatives of Stantec and NPU will complete a site walk along the proposed alignments for the new and replacement water mains to discuss the proposed locations of the water mains, isolation valve and fire hydrant requirements, connection details, construction methods, and other concerns impacting the design and construction of the water mains.

- 60-Percent Design Review Meeting: Stantec will attend a meeting with NPU staff after they have reviewed the 60-percent submittal. NPU's comments on the submittal and proposed resolutions to the comments will be discussed at this meeting.
- 90-Percent Design Review Meeting: Stantec will attend a meeting with NPU staff after they have reviewed the 90-percent submittal. NPU's comments on the submittal and proposed resolutions to the comments will be discussed at this meeting.

1.2 Geotechnical Investigations

Tierra Inc. will provide geotechnical engineering services as a subconsultant to Stantec.

Tierra will obtain information on subsurface conditions along the alignments of the water mains. This will include both reviewing published soils and topographic information and completing subsurface exploration.



- Review of Published Soils and Topographic Information

Tierra 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

Tierra will perform Standard Penetration Test (SPT) borings, subsurface sampling, and field testing at locations selected by Stantec along the proposed water main alignments.

Tierra will record groundwater levels for each SPT boring. 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 Tierra to confirm the visual classifications. Groundwater level measurements will be recorded when groundwater is encountered.

The SPT borings to be performed are:

- Lubec Avenue:
 - One SPT boring to 10 feet below existing grade to support open cut construction.
- Lundale Avenue:
 - Two SPT borings to 25 feet below existing grade to support an HDD bore crossing N Salford Boulevard and open cut construction elsewhere.
- Okolona Street:
 - One SPT boring to 10 feet below existing grade to support open cut construction.
- Portage Street:
 - One SPT boring to 10 feet below existing grade to support open cut construction.



- Appomattox Drive:
 - Three SPT borings to 45 feet below existing grade to support an HDD bore crossing Big Slough Canal and Myakkahatchee Creek.

Tierra will provide a report summarizing the work completed, the field data generated, and the subsurface conditions encountered. This 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.

1.3 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 references to the nearest published NGS benchmark. Road right of ways 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 water mains will be constructed, the survey will include the unpaved area extending from the edge of pavement to five feet beyond the edge of right of way. Where lots on the opposite side of the roadway from the proposed water main are occupied, topographic survey will be performed to at the lot corners.

The topographic survey scope of work assumes that the water mains will be constructed in accordance with the conceptual alignments provided by NPU. Based on these conceptual alignments, topographic survey will be performed to facilitate construction of the water mains on the following sides of the roadways:

- Lubec Avenue: Northern side.
- Lundale Avenue: Northern and southern sides.
- Okolona Street: Eastern side.
- Portage Street: Eastern side.
- Appomattox Drive: Northern side.

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



diameter; and as-built data for storm and sanitary sewer structures. The topographic survey for Appomattox Drive will also include elevations of the channel bottoms of Big Slough Canal and Myakkahatchee Creek adjacent to the bridges.

1.3 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 but may not be limited to the National Wetland Inventory (NWI), Florida Natural Areas Inventory (FNAI), Sarasota County, Southwest Florida Water Management District (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 water main will be depicted on the construction plans.

1.4 60-Percent Design Submittal and Permitting

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

- 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 Lundale Avenue water main HDD bore crossing N Salford Boulevard and the Appomattox Drive water main HDD bore crossing Big Slough Canal and Myakkahatchee Creek. 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 a complete set of construction drawings that is consistent with the industry standard for a 60-percent design level plan set. The drawings will include each of the five areas identified above where new water mains are proposed. The water main designs will be based on the comments received at the kick-off meeting with NPU along with the field data collected, record drawing information, site observations, information received from utility owners, and regulations applicable to the construction of potable water mains.

Plan view drawings will be prepared for each water main to show the horizontal alignments. The horizontal scale will be 1" = 20'. Profiles will be prepared for the water mains installed by HDD methods along Lundale Avenue and Appomattox Drive. 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
C-102 – C-103	Lubec Avenue Water Main – Plan
C-104	Lundale Avenue Water Main – Plan and Profile
C-105	Okolona Street Water Main – Plan
C-106 – C-107	Portage Street Water Main – Plan
C-108 – C-109	Appomattox Drive Water Main – Plan and Profile
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 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 the two permit applications:

- Florida Department of Environmental Protection (FDEP) Notice of Intent to Use an Environmental Resource General Permit (ERP)
- Florida Department of Health (FDOH) General Permit for Construction of Water Main Extensions for PWS

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 and drawings to the permitting agencies for review. The 60-percent design drawings prepared by Stantec under this Work Assignment 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)
 - FDOH General Permit for Construction of Water Main Extensions for PWS
- 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 (prepared by Tierra) in PDF format



1.4 90-Percent 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
 - Permits applications in PDF format
 - EOPCC in PDF format
 - Geotechnical report (prepared by Tierra) in PDF format



- Permits from FDEP and FDOH in PDF format (if permits have been issued prior to the 90-percent submittal)

1.5 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 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 (prepared by Tierra)
 - FDEP and FDOH permits
 - 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.

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 (prepared by Tierra)
 - FDEP and FDOH permits



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, 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 Water Main
- 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
- Meter Boxes
- Service Saddles
- Corporation and Curb Stops
- Polyethylene (PE) Tubing
- PVC Casings for PE Pipe
- Service Line Fittings
- Tracer Wire
- Tracer Wire Test Station Boxes
- Water and Force Main Metallic Identification Tape
- Fire Hydrants
- Brass Tags

This scope of services assumes that review of 10 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 of services assumes Stantec will respond to up to four RFIs. 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. This scope assumes that two change orders will be reviewed. It is also assumed that the contractor will be responsible for preparing and maintaining a change order log.

3.5 Pressure Testing, Certification, and Walk-Throughs

Stantec will observe the two-hour hydrostatic pressure tests required by FDOH for certification. This scope of work assumes that the contractor will perform pressure tests for each of the five water mains on separate days.

Upon successful completion of hydrostatic pressure and bacteriological testing 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 FDOH. This scope of work assumes that four partial certifications and one final certification will be submitted.

Stantec will participate in a punch-list walk-through for the water main once the contractor has achieved substantial completion for the five water mains. This scope of work assumes the walk-through for all water mains will occur on one day.

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 where connections will be made to existing water mains.
- 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 water main and force main installed by horizontal directional drilling.
- Construction of the water mains will be single construction contract awarded to one prime contractor.
- 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 necessary day-to-day construction observation during the construction phase.
- Fee is based on the assumption that the two projects will be designed, permitted, bid, and constructed together in a single set of construction plans and specifications.

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
- City of North Port right-of-way use permits
- Boundary surveys
- 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:

2023 Water Distribution System Improvements	Weeks from Notice to Proceed															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Project Management and Coordination																
Kick-Off Meeting	█															
Project Management and Coordination	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█
Design and Permitting																
Geotech Investigations, Topo Survey, Env Investigations	█	█	█	█	█	█										
60% Design Submittal and Permitting	█	█	█	█	█	█										
60% Design Review by NPU						█	█	█	█							
Permitting Package Preparation and Submittal								█	█	█	█	█	█	█	█	█
Permitting Agency Review (Assumed to be Four Weeks)									█	█	█	█	█	█	█	█
90% Design Submittal																
90% Design Review by NPU														█	█	█
IFB Submittal Preparation															█	█
Procurement Phase Services – To be Determined																
Construction Phase Services – To be Determined																

The permit review time may vary depending on the agency and is beyond the control of Stantec.

Fees

Task	2023 Water Distribution System Improvements Fee	Pipeline Bridge Replacements Fee	Task Fee
1.0 - Design and Permitting Phase Services			
1.1 Coordination Meetings	\$2,195.00	\$2,195.00	\$4,390.00
1.2 Geotechnical Investigations	\$4,600.00	\$13,733.82	\$18,333.82
1.3 Topographic Survey	\$8,175.00	\$8,175.00	\$16,350.00
1.4 Environmental Investigation	\$300.00	\$892.00	\$1,192.00
1.5 60 % Design Submittal & Permitting	\$23,961.00	\$35,000.00	\$58,961.00
1.6 90 % Design Submittal	\$9,125.00	\$12,000.00	\$21,125.00
1.7 Issued for Bid Design Submittal	\$2,935.00	\$2,935.00	\$5,870.00
2.0 – Procurement Phase Services	\$1,752.00	\$1,752.00	\$3,504.00
3.0 – Construction Phase Services	\$16,658.00	\$16,658.00	\$33,316.00
Fee	\$69,701.00	\$93,340.82	
Total Fee			\$163,041.82

See Exhibit B for a summary of hours and fees.

CONTRACTED HOURLY RATES VERIFIED - GD 11/21/22.
EXTENSIONS AND FEE TOTAL VERIFIED BY UTILITIES.



EXHIBIT "B" - Hour and Fee Summary
2023 Water Distribution System Improvements & Pipeline Bridge Replacements

	Principal	Senior Project Manager	Project Engineer	Project Scientist	Staff Scientist	Senior CAD Designer	Construction Inspector	Admin. Assistant	Two Person Survey Crew	Senior CAD Designer (Survey)	Project Manager (Survey)	Professional Surveyor (Survey)	Principal (HDD Design)	Senior Project Manager (HDD Design)	Project Engineer (HDD Design)	Project (Geotechnical) Engineering (Stormwater)
Project Billing Rate	\$225.00	\$192.00	\$149.00	\$149.00	\$137.50	\$123.00	\$123.00	\$98.00	\$135.00	\$123.00	\$174.00	\$174.00	\$225.00	\$192.00	\$149.00	\$1.00
Total Units	12.00	120.00	290.00	36.00	8.00	178.00	20.00	21.00	64.00	32.00	12.00	8.00	62.00	14.00	78.00	16,899.82
Total Fee	\$2,700.00	\$23,040.00	\$43,210.00	\$5,364.00	\$1,100.00	\$21,894.00	\$2,460.00	\$2,058.00	\$8,640.00	\$3,936.00	\$2,088.00	\$1,392.00	\$13,950.00	\$2,688.00	\$11,622.00	\$16,899.82

Project Summary	Hours	Labor	Expense	Subs	Total
Time & Material	0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fixed Fee	969.00	\$146,142.00	\$0.00	\$16,899.82	\$163,041.82
Total	969.00	\$146,142.00	\$0.00	\$16,899.82	\$163,041.82

Task Code	Task Name	Units														
1.0	Design and Permitting Phase Services															
1.1	Coordination Meetings		12.00	14.00												
1.2	Geotechnical Investigations		1.00	2.00				2.00						2.00		16,899.82
1.3	Topographic Survey							3.00	64.00	32.00	12.00	8.00				
1.4	Environmental Investigations				8.00											
1.5	60-Percent Design Submittal and Permitting	3.00	36.00	136.00	28.00	8.00	102.00	6.00					24.00	7.00	40.00	
1.6	90-Percent Design Submittal	7.00	15.00	36.00			40.00	2.00					10.00	5.00	20.00	
1.7	Issued for Bid Design Submittal		11.00	14.00			12.00	2.00								
2.0	Procurement Phase Services		10.00	8.00				4.00								
3.0	Construction Phase Services	2.00	35.00	80.00			24.00	20.00	2.00				26.00	2.00	16.00	

Task Type	Hours	Labour	Expense	Subs	Total
Fixed Fee	726.00	\$109,322.00	\$0.00	\$16,899.82	\$126,221.82
Fixed Fee	26.00	\$4,390.00	\$0.00	\$0.00	\$4,390.00
Fixed Fee	9.00	\$1,434.00	\$0.00	\$16,899.82	\$18,333.82
Fixed Fee	119.00	\$16,350.00	\$0.00	\$0.00	\$16,350.00
Fixed Fee	8.00	\$1,192.00	\$0.00	\$0.00	\$1,192.00
Fixed Fee	390.00	\$58,961.00	\$0.00	\$0.00	\$58,961.00
Fixed Fee	135.00	\$21,125.00	\$0.00	\$0.00	\$21,125.00
Fixed Fee	39.00	\$5,870.00	\$0.00	\$0.00	\$5,870.00
Fixed Fee	22.00	\$3,504.00	\$0.00	\$0.00	\$3,504.00
Fixed Fee	207.00	\$33,316.00	\$0.00	\$0.00	\$33,316.00