



City of North Port
PURCHASING

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WORK ASSIGNMENT

Infrastructure Solution Services, LLC

CONSULTANT

CONTINUING CONTRACT NO. & TITLE

2020-58-08 - Professional Engineering Services - Continuing Services Contracts for City of North Port Utilities

THIS WORK ASSIGNMENT

Table with 2 columns: Field Name and Value. Fields include WORK ASSIGNMENT # (2021-01), SHORT TITLE (Water Pipeline Bridge Replacements - Haberland/Woodhaven/N. Toldeo Blade/Ortiz), DATE SUBMITTED (2/2/2021), AMOUNT (LUMP SUM) (\$196,770.00), SCHEDULED COMPLETION (TBD).

CONTRACT AND BUDGET OVERVIEW FOR FISCAL YEAR 2021

Table with 3 columns: Field Name, 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 \$200,000 & ANY RESULTING CONSTRUCTION SHALL NOT EXCEED \$2,000,000 PER FLORIDA STATUTE 287.055.

SUBMITTED BY:

Brian Stahl (Digitally signed by Brian Stahl, Date: 2021.02.03 10:53:49 -05'00') 02/03/2021
CONSULTANT DATE

APPROVED BY:

Richard Newkirk (Digitally signed by Richard Newkirk, Date: 2021.02.03 12:31:48 -05'00')
DEPARTMENT DIRECTOR DATE
Ginny Duyn (Digitally signed by Ginny Duyn, Date: 2021.02.12 13:36:21 -05'00')
PURCHASING DATE

Lisa M. Herrmann (Digitally signed by Lisa M. Herrmann, DN: cn=Lisa M. Herrmann, o=City of North Port, ou=Finance Department, email=lherrmann@cityofnorthport.com, c=US, Date: 2021.02.12 13:49:33 -05'00')
BUDGET ADMINISTRATOR DATE
Kimberly Ferrell (Digitally signed by Kimberly Ferrell, Date: 2021.02.16 08:33:22 -05'00')
FINANCE DIRECTOR DATE

ASSISTANT CITY MANAGER DATE CITY MANAGER DATE

Print Form

Clear All Fields

CITY OF NORTH PORT, FL

WATER PIPELINE BRIDGE REPLACEMENTS AT HABERLAND/ WOODHAVEN/N. TOLEDO BLADE/ ORTIZ No. 2021-01 TASK ORDER NO. ISS-NPT-001

SECTION I. BACKGROUND

The City of North Port Utilities Department, hereinafter referred to as “City”, has identified the need to replace water pipelines at four (4) bridge locations within the City. These improvements are being undertaken to replace and remove water lines on the four bridges. These projects will benefit the system by replacing water lines on bridges that have reached the end of their useful life and will improve the reliability of the water system for the City water customers. These four projects will be delivered as one (1) set of contract documents for bidding and construction. The four water pipeline bridge replacement projects locations are as follow:

- 1) Haberland Boulevard– 8-inch existing ductile iron water main
- 2) Woodhaven Drive – 8-inch existing ductile iron water main
- 3) N. Toledo Blade Boulevard at Snover – 12-inch existing ductile iron water main
- 4) Ortiz Boulevard– 8-inch existing ductile iron water main and 2-inch existing water service

A figure for the proposed scope of work for each location can be found in ATTACHMENT A.

The City requested Infrastructure Solution Services (ISS), hereinafter referred to as “Consultant”, to provide design, permitting, bidding and construction phase services for the water pipeline bridge replacements at four locations as described in this Task Order.

The following are the details of the scope:

SECTION II. SCOPE OF WORK

Infrastructure Solution Services agrees to perform the following tasks:

TASK A: FINAL DESIGN SERVICES

- a) Review project scope and provided data such as surveying drawings, geotechnical report, etc. and provide a data request to the City.
- b) Have a project kick-off meeting with the City personnel to discuss the scope, data provided by the City, the City Standards, and any other relevant information provided by the City.
- c) Perform site visits to determine existing conditions.
- d) Perform engineering data collection of the project locations (topography, utility locations, locations of above-grade features, etc) within public Right of Ways.
- e) Perform a specific purpose engineering survey of the proposed project locations to locate the approximate location of existing underground utilities using Ground Penetrating Radar. Locations of utilities will be collected via aerial drone and/or GPS coordinates.
- f) Prepare one (1) 60% design documents package including design drawings, opinion of probable cost, and technical specifications utilizing the City’s template. Submit a 60% design documents package to the City.
- g) Attend a 60% design review meeting with the City.

- h) Coordinate and perform subsurface utility investigations (through a subconsultant) of critical utility crossing, where required for the design.
- i) Coordinate and perform geotechnical investigations (through a subconsultant).
- j) Prepare one (1) set of final contract documents, including technical specifications, incorporating comments from the 60% design review, soft dig information, and geotechnical evaluation into the design. Prepare an updated opinion of probable cost.
- k) Attend a final design review meeting with the City.
- l) Submit one (1) set of final contract documents incorporating comments from the final design review and permitting agency comments.
- m) Submit an Engineer's Opinion of Probable Cost with the final design submittal.

TASK B: PERMITTING SERVICES

- a) Prepare Florida Department of Environmental Protection (FDEP) Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs with attachments/exhibits, duly signed and sealed by the engineer-of-record. Submit to the City for signatures. Consultant will submit permitting documentation to Florida Department of Health (FDOH). One permit is anticipated for the four locations with individual (partial) certifications.
- b) Schedule and attend a pre-application meeting with Southwest Florida Water Management District (SWFWMD) to confirm "No Permit Required" status for each of the projects.
- c) Address comments received as Request for Additional Information (RAI) from the permitting agencies. Response to one RAI is anticipated from each permitting jurisdiction and is included in this task order.

TASK C: BIDDING SERVICES [4 Projects Bid as 1 Contract]

- a) Compile one (1) set of electronic files of bid documents in PDF format with front end and technical specifications for City use. ISS will provide the City with the estimated days of construction for use in the bid package.
- b) Attend the pre-bid meeting.
- c) Prepare answers to bidder questions for the City to use in preparation and distribution of bid addenda.
- d) Review bids and investigate bidder qualifications.
- e) Prepare a written recommendation for award of the construction contract.

TASK D: ENGINEERING SERVICES DURING CONSTRUCTION [4 Projects Bid as 1 Contract]

ISS offers the following services during the construction phase of the project. Construction is anticipated to be conducted at the four locations under one contract and partially certified, as construction of each location is completed. The Construction Phase scope of services includes:

- a) Attend the pre-construction conference.
- b) Review and approve shop drawings.
- c) Attend periodic construction progress meetings as required during the construction phase.
- d) Answer Contractor questions and requests for information (RFIs), or contract changes.
- e) Provide field inspections at critical points in the construction. Eight field inspections, one start-up, six at critical points and one final inspection are anticipated.
- f) Coordinate with Owner's construction inspector/observer on a periodic basis regarding project progress and milestone elements.

- g) Attend scheduled utility tests (i.e. water main pressure testing) and service connections for the proposed improvements. Record observations and report to Client/Owner.
- h) Attend project walk-through at substantial and final completion stages of the work. Prepare punch list of observed discrepancies and deficient items requiring correction.
- i) Prepare record drawings prepared based on as-built information collected by the Surveyor and Contractor during construction. Respond to review comments and coordinate agency review.
- j) Prepare and submit certificates of completion to the City of North Port and FDOH as required utilizing record drawings prepared by ISS.

SECTION III: PROJECT REPRESENTATIVES

City of North Port Utilities:	Jennifer Fehrs, PE 941-240-8008 jfehrrs@cityofnorthport.com
Infrastructure Solution Services	Devyn Howell, PE 941-526-0813 dhowell@infrastructuress.com

SECTION IV: PERMITTING

The following permitting is included in this Task Order:

- 1) Water Main Extensions for PWSs permit through FDOH
- 2) SWFWMD No Permit Required

SECTION V: CITY'S RESPONSIBILITY

The following items are required from the CITY to complete the Task Order as mentioned above:

- a) Reasonable access to the site.
- b) Reasonable access to operations, maintenance, and engineering staff.
- c) Copies of available record drawings.
- d) Copies of available operating reports and maintenance records.
- e) FDOT bridge inspection reports for bridge crossing projects
- f) Payment of permit fees.
- g) Coordination with other City offices and federal and state regulatory agencies.
- h) Review of 60 percent and final design document submittals.
- i) If needed attain a preliminary environmental assessment of the watermain routes to identify any environmental concerns including threatened and endangered species or wetlands (through a subconsultant). Army Corp of Engineers permitting may be required and will be provided through environmental consultant, if required.

SECTION VI: CONSULTANT SERVICES SPECIFICALLY NOT INCLUDED

- a) Environmental services related to unknown threatened and endangered species, wetlands, or regulated solid wastes encountered on the site.
- b) Services related to the acquisition of real property, easements, or rights-of-way.
- c) Hydraulic modeling or other revisions to the City's water distribution system model.

SECTION VII: DELIVERABLES

The following results shall be delivered by the Consultant:

All deliverables shall be provided in Word, Excel, AutoCAD, and electronic PDF format unless otherwise noted. In addition, two (2) sets of approved Record Drawings will be provided to the City for their record.

Design documents will be prepared assuming all project locations will be bid for construction as one project.

Watermain design drawings will be prepared depicting plan and profile views, as required to clearly depict the proposed method of construction and meet regulatory requirements.

Generally

- a) Monthly activity reports.
- b) Meeting minutes from meetings and conferences with City staff and regulatory agencies.
- c) Timely invoices concurrent with the work.

Task A -- Final Design Services

- a) Design drawings and technical specifications.
- b) 60% and Final design drawings in PDF and AutoCAD format with X-refs and plot styles.
- c) One (1) hard copy and one (1) half sized signed and sealed final design drawings.
- d) Technical Specifications (as required) in Word and PDF format.
- e) Engineer's Opinion of Probable Cost at 60% and final design in Excel and PDF format.
- f) Two (2) sets of approved Record Drawings.
- g) Files in GIS.

Task B – Permitting Services

- a) FDEP permit application with supporting information. Provide in PDF format and hard copies, as required.
- b) SWFWMD Pre-Application Meeting Minutes.

SECTION VIII: SCHEDULE

Task	Duration
City of North Port Water Pipeline Bridge Replacement Projects Kickoff Meeting	Within 2 weeks of Notice-to-Proceed
Data Request to City	Within 2 weeks of Notice-to-Proceed
Surveying/Aerial Photogrammetry/ Geotechnical	Within 2 weeks of Kickoff Meeting
60% Plans and Specifications	Within 8 weeks of Kickoff Meeting
60% Client Review Meeting	Within 2 weeks of 60% Submittal
Final Plans and Specifications	Within 2 weeks of Receipt of City's Comments
Final Plans Client Review Meeting	Within 1 week of 90% Submittal
Submit Final Plans for Permits and Approvals	Within 3 weeks of Receipt of City's Comments
Final 100% Contract Documents (Meets 16 weeks)	Within 16 weeks of Kickoff Meeting
Bid Phase Services	Per Owner's Schedule
Construction Phase Services	Per Owner's Schedule

SECTION IX: BASIS OF COMPENSATION

The lump sum fee for the scope of work described in Section II shall not exceed a total of **\$196,770.00** as shown in the table below. The subconsultants fee is estimated and shall be billed on a cost not to exceed basis. The City shall periodically compensate the Consultant a portion of the task fee based on mutually agreed upon percentages of completion of each task.

TASK	DESCRIPTION	FEE
A	Final Design Services	\$ 75,790.00
B	Permitting Services	\$ 16,140.00
C	Bidding Services	\$ 11,340.00
D	Engineering Services During Construction	\$ 42,980.00
	Sub-Total	\$146,250.00
	Subconsultants (Utility Locates, Survey, Geotechnical)	\$ 50,520.00
	Total	\$196,770.00

At the direction of the City, ISS may be requested to provide additional services. These additional serviced will be billed at ISS standard rates.

SECTION XI: ACCEPTANCE

If the above scope and fee meet your approval, please indicate by your signature in the space provided below and return one signed copy, which will constitute an "Agreement and Notice to Proceed" for the accomplishment of this work.

INFRASTRUCTURE SOLUTION SERVICES

CITY OF NORTH PORT, FLORIDA



Brian M. Stahl, PE
Managing Member

Name & Title

01/22/21

Date

Date

ATTACHMENT B – FEE SCHEDULE

HOURLY BILLING RATE SCHEDULE INFRASTRUCTURE SOLUTION SERVICES, LLC

HOURLY RATES VERIFIED-GD 2-12-21

CORPORATE POSITION	BILLING RATE	POSITION DESCRIPTION
ENGINEER INTERN I	\$80.00	<ul style="list-style-type: none"> • Limited knowledge learning core aspects from education and staff. • Applies prescribed techniques and procedures in accordance with established criteria to perform assigned tasks. • Performs very routine technical work. • Learning about the profession and ethical responsibilities.
ENGINEER INTERN II	\$100.00	<ul style="list-style-type: none"> • Acquires limited knowledge and develops basic skills. • Applies prescribed techniques and procedures in accordance with established criteria to perform assigned tasks. • Performs routine technical work which does not require previous experience. • Acquires an understanding of professional and ethical responsibilities.
ENGINEER I	\$110.00	<ul style="list-style-type: none"> • Acquires limited knowledge and develops basic skills. • Applies prescribed techniques and procedures in accordance with established criteria to perform assigned tasks. • Performs routine technical work which does not require previous experience. • Acquires an understanding of professional and ethical responsibilities.
ENGINEER II	\$120.00	<ul style="list-style-type: none"> • Develops broad knowledge and skills in a specific practice area. • Evaluates, selects, and applies standard techniques, procedures, and criteria to perform a task or sequence of tasks for conventional projects with few complex features. • Collaboratively uses judgment to determine adaptations in methods for nonroutine aspects of assignments. • Works on small projects or portions of larger projects.
ENGINEER III	\$130.00	<ul style="list-style-type: none"> • Develops broad knowledge and skills in a specific practice area. • Evaluates, selects, and applies standard techniques, procedures, and criteria to perform a task or sequence of tasks for conventional projects with few complex features. • Collaboratively uses judgment to determine adaptations in methods for nonroutine aspects of assignments. • Works on small projects or portions of larger projects.
ENGINEER IV	\$140.00	<ul style="list-style-type: none"> • Applies broad knowledge of principles and practices in a specific practice area. • Independently evaluates, selects, and adapts standard techniques, procedures, and criteria. • Acquires general knowledge of principles and practices of related fields and ability to function on multidisciplinary teams. • Works on multiple projects of moderate size or portions of major projects.

CITY OF NORTH PORT
 CONTRACT NO. 2020-58-08
 PROFESSIONAL ENGINEERING SERVICES-
 CONTINUING SERVICES CONTRACT FOR CITY OF NORTH PORT UTILITIES

ENGINEER V	\$150.00	<ul style="list-style-type: none"> Independently applies extensive and diversified knowledge of principles and practices in broad areas of assignments and related fields. Uses advanced techniques in the modification or extension of theories and practices of sciences and disciplines to complete assignments. Works on a major project or several projects of moderate scope with complex features.
ENGINEER VI	\$160.00	<ul style="list-style-type: none"> Applies a thorough knowledge of current principles and practices of engineering as related to the variety of aspects affecting his or her organization. Applies knowledge and expertise acquired through progressive experience to resolve crucial issues and/or unique conditions. Keeps informed of new methods and developments affecting his or her organization and recommends new practices or changes in emphasis of programs. Works on programs of limited complexity and scope.
ENGINEER VII	\$170.00	<ul style="list-style-type: none"> Uses creativity, foresight, and mature judgment in anticipating and solving unprecedented problems. Makes decisions and recommendations that are authoritative and have an important impact on extensive organizational activities. Sets priorities and reconciles directions from competing interests. Works on programs with complex features.
ENGINEER VIII	\$180.00	<ul style="list-style-type: none"> Makes decisions with broad influence on the activities of his or her organization. Makes authoritative decisions and recommendations that are conclusive and have a far-reaching impact on the organization. Demonstrates a high degree of creativity, foresight, and mature judgment in planning, organizing, and guiding extensive programs and activities of major consequence.
ENGINEER IX	\$190.00	<ul style="list-style-type: none"> Provide leadership for the organization or an industry program with broad influence on the activities of his or her organization. Makes authoritative decisions and recommendations that are conclusive and have a far-reaching impact on the organization. Demonstrates a high degree of leadership, creativity, foresight, and mature judgment in planning, organizing, and guiding extensive programs and activities of major consequence.
PROJECT PROFESSIONAL I	\$110.00	<ul style="list-style-type: none"> Acquires limited knowledge and develops basic skills. Applies prescribed techniques and procedures in accordance with established criteria to perform assigned tasks. Performs routine technical work which does not require previous experience. Acquires an understanding of professional and ethical responsibilities.
PROJECT PROFESSIONAL III	\$130.00	<ul style="list-style-type: none"> Develops broad knowledge and skills in a specific practice area. Evaluates, selects, and applies standard techniques, procedures, and criteria to perform a task or sequence of tasks for conventional projects with few complex features. Collaboratively uses judgment to determine adaptations in methods for nonroutine aspects of assignments. Works on small projects or portions of larger projects.
PROJECT PROFESSIONAL V	\$150.00	<ul style="list-style-type: none"> Independently applies extensive and diversified knowledge of principles and practices in broad areas of assignments and related fields. Uses advanced techniques in the modification or extension of theories and practices of sciences and disciplines to complete assignments. Works on a major project or several projects of moderate scope with complex features.
PROJECT PROFESSIONAL VII	\$170.00	<ul style="list-style-type: none"> Uses creativity, foresight, and mature judgment in anticipating and solving unprecedented problems. Makes decisions and recommendations that are authoritative and have an important impact on extensive organizational activities. Sets priorities and reconciles directions from competing interests. Works on programs with complex features.
PROJECT PROFESSIONAL IX	\$190.00	<ul style="list-style-type: none"> Provide leadership for the organization or an industry program with broad influence on the activities of his or her organization. Makes authoritative decisions and recommendations that are conclusive and have a far-reaching impact on the organization. Demonstrates a high degree of leadership, creativity, foresight, and mature judgment in planning, organizing, and guiding extensive programs and activities of major consequence.
DRAFTSMEN/ TECHNICIAN I	\$70.00	<ul style="list-style-type: none"> Performs basic drafting responsibilities with limited assignments in support of projects. Prepares clear, accurate drawings of simple, easily visualized components from detailed sketches and/or written notes. Traces or copies finished drawings and makes simple revisions from detailed instructions. Assists with field work associated with drawing assignments, such as field measurements and simple sketches. Assists more senior drafters/designers in the acquisition of required data/information, maintenance of files and supplies, and operation of related drafting room equipment. Limited knowledge learning core aspects from education and staff.
DRAFTSMEN/ TECHNICIAN II	\$90.00	<ul style="list-style-type: none"> Prepares complete sets of complex drawings that include multiple views, detail drawings, and assembly drawings. Prepares drawings that include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Works from sketches/verbal information supplied by engineer/designer, determines appropriate views, detail drawings and supplementary information needed to complete tasks. Selects required information from precedents, manufacturers' catalogs, and technical guides.
DESIGNER I	\$100.00	<ul style="list-style-type: none"> Provides drafting support to projects including the development of simple design computations and leads design/drafting projects of very limited scope and complexity. Assists in planning drafting jobs and preparing drawing lists and coordinates job with engineers, detailers, and checkers. Assists in solving engineering problems and developing designs using standard engineering practices. Performs complex drafting assignments working from engineering computations, verbal instructions, or rough sketches using AutoCAD Performs drawing checks to confirm accuracy and acceptability guided by company and/or client drafting standards/specifications, engineering computations, and sketches. Evaluates functional feasibility of design and its conformance to specifications.

CONTINUING SERVICES CONTRACT FOR CITY OF NORTH PORT UTILITIES

DESIGNER II	\$110.00	<ul style="list-style-type: none"> Provides drafting support to projects including the development of some advanced design computations and leads design/drafting projects of limited scope and complexity. Assists in planning drafting jobs and preparing drawing lists and coordinates job with engineers, detailers, and checkers. Assists in solving engineering problems and developing designs using standard engineering practices. Performs complex drafting assignments working from engineering computations, verbal instructions, or rough sketches using AutoCAD and AutoCAD Civil 3D. Performs drawing checks to confirm accuracy and acceptability guided by company and/or client drafting standards/specifications, engineering computations, and sketches. Evaluates functional feasibility of design and its conformance to specifications. Prepares sketches to be drawn by others, helps maintain drafting standards, and assists in training of new or less experienced drafting personnel.
PROJECT REPRESENTATIVE I	\$80.00	<ul style="list-style-type: none"> Review plans and specifications to ensure familiarity with project requirements Monitors assigned construction project sites periodically to ensure construction and schedule compliance Inspects contractors work to ensure compliance with contract drawings and specifications Keep daily logs, including photographs taken during inspections Provide written documentation of findings.
PROJECT REPRESENTATIVE II	\$100.00	<ul style="list-style-type: none"> Review plans and specifications to ensure familiarity with project requirements Monitors multiple construction project sites routinely to ensure construction and schedule compliance Inspects contractors work to ensure compliance with contract drawings and specifications Keep daily logs, including photographs taken during inspections. Provide written documentation of findings.
PROJECT REPRESENTATIVE III	\$120.00	<ul style="list-style-type: none"> Independently applies extensive and diversified knowledge of principles and practices in broad areas of assignments and related fields. Review plans and specifications to identify potential conflicts or impacts during construction Inspects contractors work to ensure compliance with contract drawings and specifications Keep daily logs, including photographs taken during inspections Provide written documentation of findings.
SURVEY TECHNICIAN	\$80.00	<ul style="list-style-type: none"> Knowledge of generally accepted land survey procedures and field execution of work and accurate note keeping for boundary, topographic and construction surveying. Applies prescribed techniques and procedures in accordance with established criteria to perform assigned tasks. Performs routine technical work. Works on small projects or portions of larger projects.
SURVEY CREW - 1 MAN w/GPS UNIT	\$110.00	<ul style="list-style-type: none"> Party chief with GPS Unit. Works independently on small and large survey projects.
SURVEY CREW - 2 MAN	\$140.00	<ul style="list-style-type: none"> Party chief with with instrument and Rod Person. Works independently on small and large survey projects.
SR. PROFESSIONAL SURVEYOR & MAPPER	\$150.00	<ul style="list-style-type: none"> Thorough knowledge of accepted land survey procedures and field execution of work and accurate note keeping for boundary, topographic and construction surveying. Applies prescribed techniques and procedures in accordance with established criteria and directs and oversees assigned tasks. Performs detailed technical work with thorough knowledge of GPS and GIS Works on independently on small and large projects.
ADMINISTRATIVE ASSISTANT I	\$50.00	<ul style="list-style-type: none"> Responsible for reception requirements, filing, word processing, spreadsheets, deliveries, copying, and scanning. Works with guidance on office tasks.
ADMINISTRATIVE ASSISTANT II	\$60.00	<ul style="list-style-type: none"> Responsible for office administration communication, purchasing, word processing, spreadsheets, deliveries, proposals, copying, and scanning. Works independently on office tasks.

- Direct costs are not reimbursable. Direct costs are defined as, but not limited to, the use of communication equipment, computers, copiers, and all other equipment required to perform services. Mileage and meals are considered direct costs and are not reimbursable.
- Permit Fees: Cost
- The City will allow rate adjustments to be submitted for each successive year prior to the end of the current contractual year. Rates are to be firm for each one-year period. No price adjustments will be considered mid-year. Adjustments should not exceed the Bureau of Labor Statistics, Producer Price Index for the industry in the North Port market area.

END OF ATTACHMENT B

**WATER PIPELINE BRIDGE REPLACEMENTS AT
HABERLAND/ WOODHAVEN/N. TOLEDO BLADE/ ORTIZ**

ATTACHMENT A

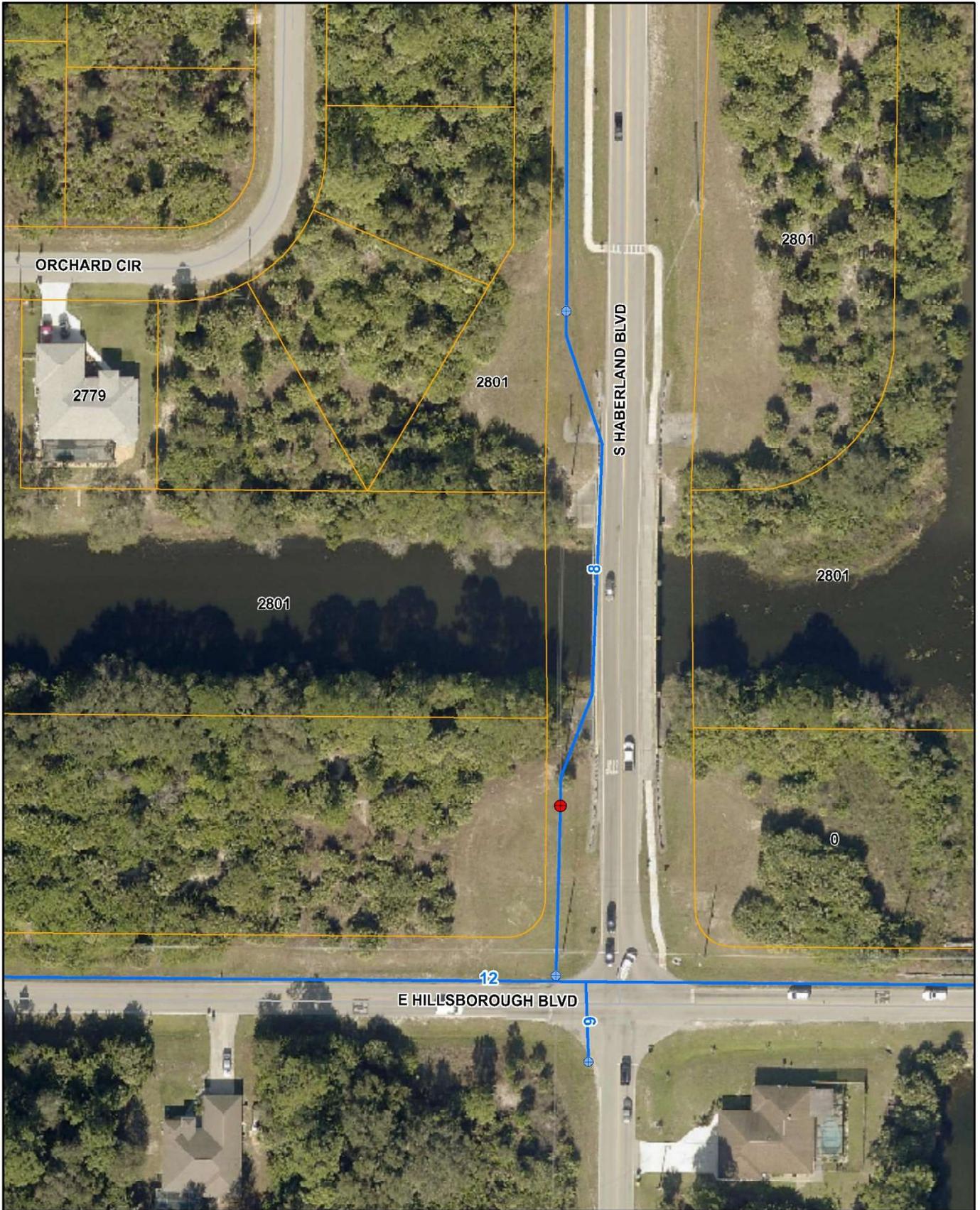


Figure 1. Haberland Boulevard
8-inch existing ductile iron water main

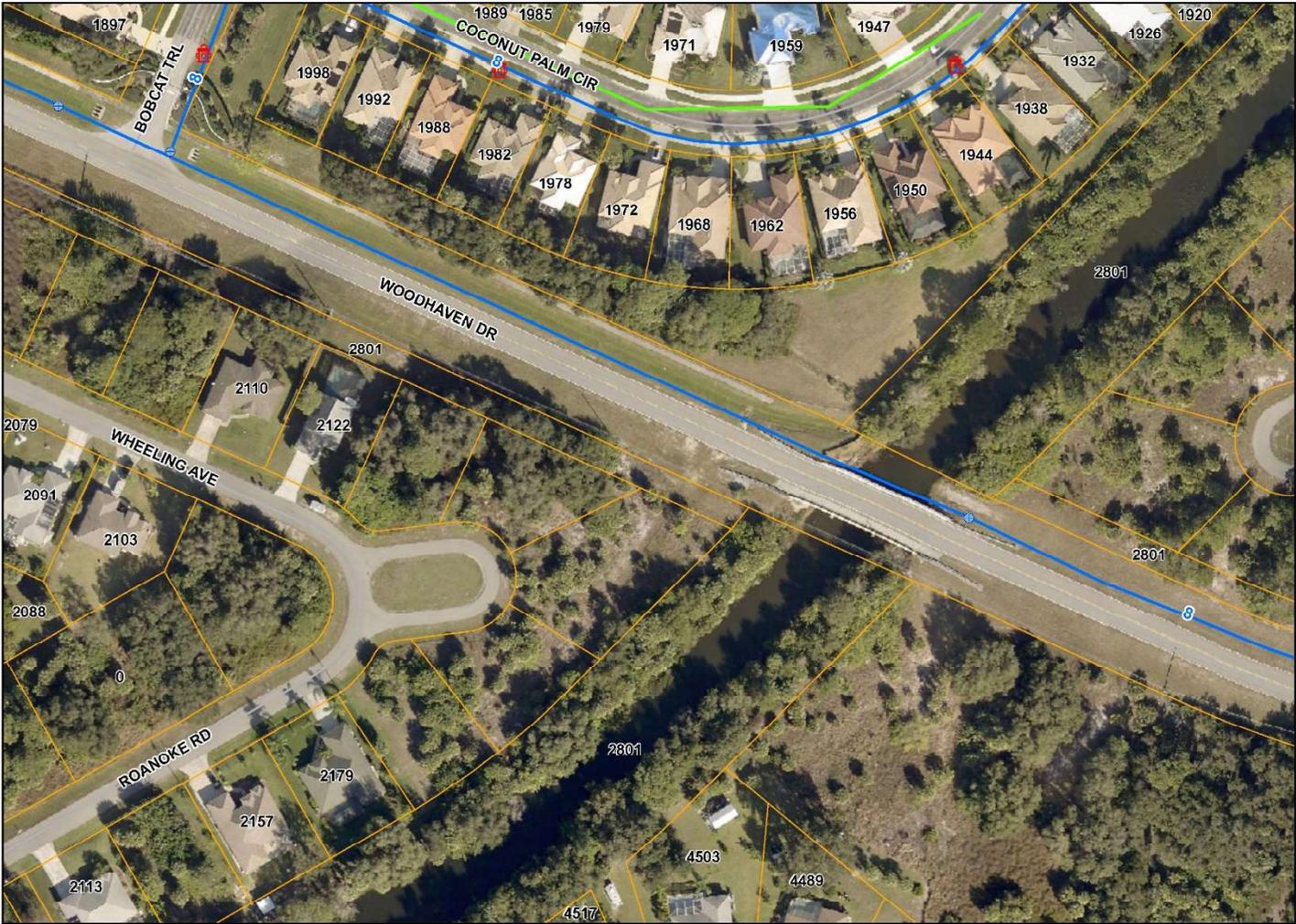


Figure 2. Woodhaven Drive
8-inch existing ductile iron water main

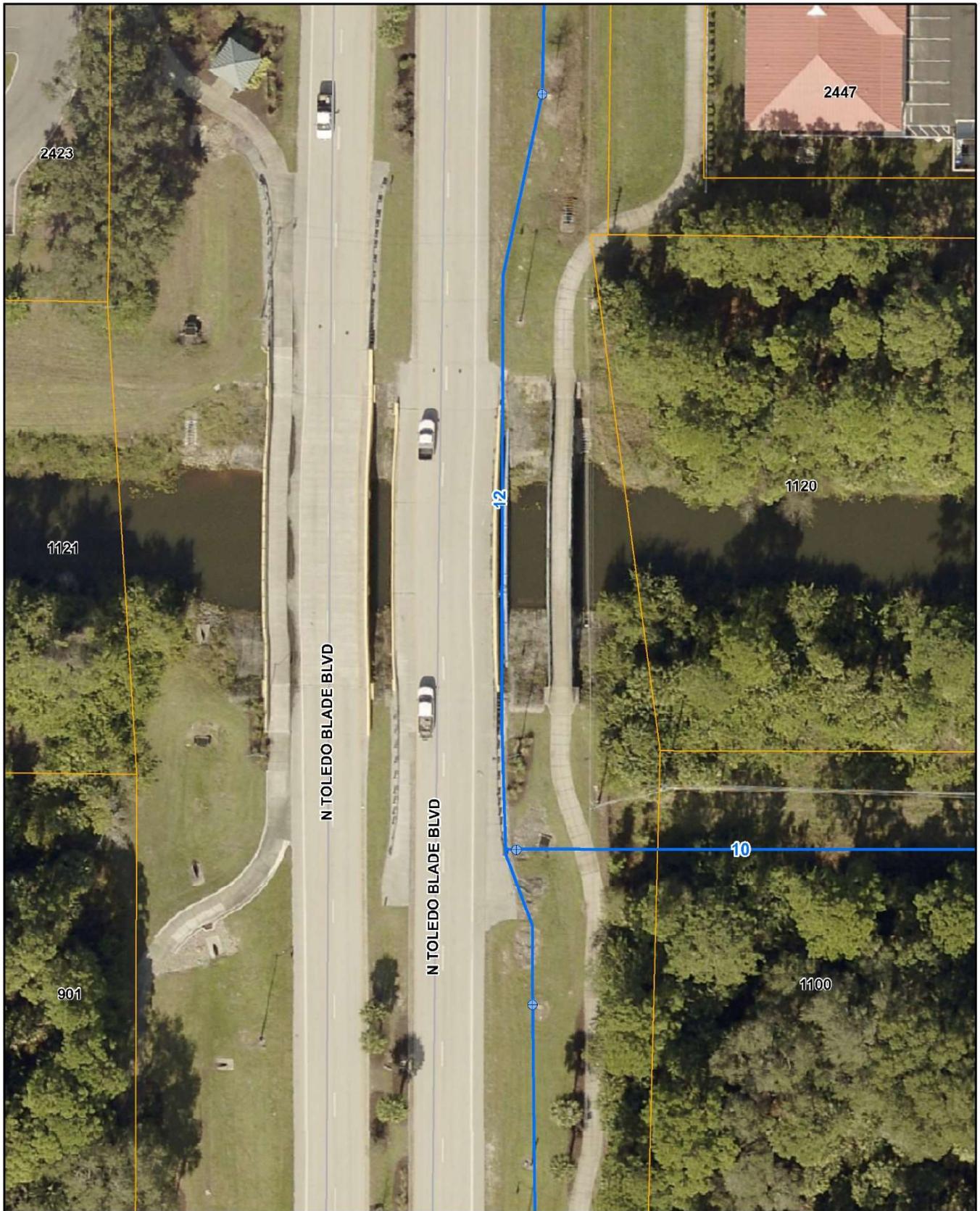


Figure 3. N Toledo Blade Boulevard at Snover
12-inch existing ductile iron water main

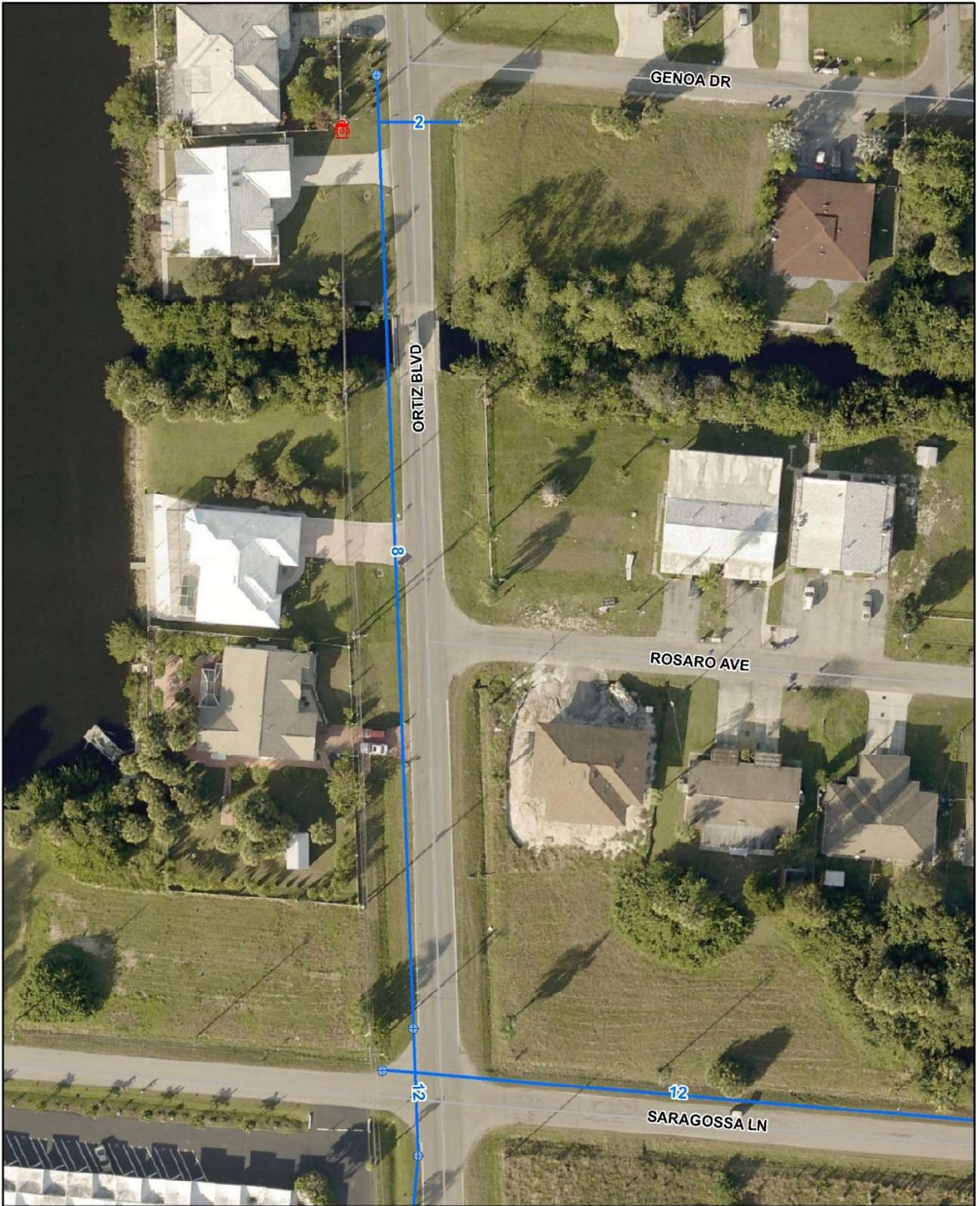


Figure 4. Ortiz Boulevard
8-inch existing ductile iron water main and
2-inch existing water service



Professional Engineering Services for the City of North Port, Florida
Water Pipeline Bridge Replacements at Haberland/ Woodhaven/ N. Toledo Blade/ Ortiz

Task Order No.

ISS Project Number: NPT001

Project Hourly Labor Breakdown Estimate for Engineering Services										
Task Name	Engineer VIII	Engineer V	Engineer III	Engineer Intern II	Designer II	Draftsman/ Technician II	Project Representative II	Administrative Assistant I	Total Hours	Total Dollars
	\$180	\$150	\$130	\$100	\$110	\$90	\$100	\$50		
Task A: Final Design Services (Haberland/ Woodhaven/ N. Toledo Blade/ Ortiz)										
Review project scope and data. Prepare data request to City.		8							16	\$2,240
Project kickoff meeting and field visits	2	2	4						8	\$1,180
Perform site visits to determine existing site conditions		4	4				8		16	\$1,920
Perform engineering data collection of the project locations	2	6	6		6				20	\$2,700
Perform a specific purpose survey of the project locations		2	2						4	\$560
Prepare 60% design documents (all locations as 1 set of plans)	6	30	48		210				294	\$34,920
Attend 60% design review meeting	3	3			3				9	\$1,320
Coordinate and perform subsurface utility investigations (through subconsultant)		2							2	\$300
Coordinate and perform geotechnical investigations (through subconsultant)		2							2	\$300
Coordinate and perform environmental assessment (through subconsultant)		2							2	\$300
Prepare final design documents (all locations as 1 set of plans)	6	20	10		96				132	\$15,940
Attend final design review meeting	3	3					3		9	\$1,290
Prepare final design documents based on review comments	2	8	10		32				52	\$6,380
Prepare Engineer's Opinion of Probable Construction Costs	4	12	20		12				48	\$6,440
Task A: Total	28	104	112	0	359	0	11	0	614	\$75,790
Task B: Permitting (Haberland/ Woodhaven/ N. Toledo Blade/ Ortiz)										
Prepare and Submit FDEP PWS WM Permit	2	32	32		8			2	76	\$10,300
Schedule and Attend SWFWMD Pre-App for No Permit Required		4			2				6	\$820
Respond to RAI's, as needed		16	16		4			2	38	\$5,020
Task B: Total	2	52	48	0	14	0	0	4	120	\$16,140
Task C: Bidding Services (Haberland/ Woodhaven/ N. Toledo Blade/ Ortiz)										
Compile one set of electronic files of bid documents in PDF format with front end and technical specifications for City use (4 projects @ 4hrs/1st set and 2.5hrs/remaining sets).		12			12			2	26	\$3,220
Prepare and attend the pre-bid meeting (1 contract 2persons @ 8hrs/mtg).		8	8						16	\$2,240
Prepare answers to bidder questions for the City to use in preparation and distribution of bid addenda (1 contract w/4 project locations @ 6hrs/location).		4	24						28	\$3,720
Review bids & qualifications of bidders and provided recommendation of award letter (1 contracts @ 12hrs).		4	12						16	\$2,160
Task C: Total	0	28	44	0	12	0	0	2	86	\$11,340

December 15, 2020 (REVISED January 15, 2020)

City of North Port, Florida
Utilities Department
Jennifer Fehrs, PE - Utilities Engineer
6644 W. Price Blvd., North Port, Florida 34291
Phone: 321-952-3420 | jfehr@northport.org

Subject: Proposal to Provide Surveying Services, Water Pipeline Bridge Replacements at Four Locations; Project No. No. 2021-01, Task Order No. ISS-NPT-001

Dear Ms. Fehrs:

Infrastructure Solution Services (ISS) is pleased to provide this proposal for surveying services for the City of North Port Water Pipeline Bridge Replacements at Four Locations, Project No. No. 2021-01, Task Order No. ISS-NPT-001 (Project) in North Port, Florida (City), for the City of North Port Utilities Department.

SECTION I: BACKGROUND

After speaking with Devyn Howell and Brian Stahl of ISS, and reviewing the provided scope and limits, it is ISS's understanding that the Project consists of a topographic route survey of approximately 3,350' of City streets including bridges and canal cross sections for the purpose of design of new water line bridge crossings. The Project includes approximately 700' of Ortiz Blvd (Ortiz Blvd will only include supplemental topo, control verification, bridge detail for a previous survey and drone work), 1000' of Haberland Road, 1000' of Woodhaven Drive, and 650' of Toledo Blade Road (see enclosed figures). It is our understanding that the Project will include establishing all right of way (ROW) lines, approximate lot lines per plat, and property appraiser information to be utilized for the purpose of designing the new water line crossings.

ISS will establish a minimum of three (3) site benchmarks within each project area. The ISS project team will locate all visible aboveground improvements, locate lines of dense vegetation, and perform cross sections at no greater than 100' intervals to establish the project topography. Cross sections of lesser intervals will be performed if the terrain dictates, and all grade breaks will be collected. ISS will locate all traffic pavement markings within the Project area. Any underground utilities will be marked by GPRS, LLC who will provide a sketch of all markings to ISS. ISS will then verify markings to ensure they are thorough and perform underground utility locates. A high-resolution georeferenced aerial image and contour lines will be generated with drone data collected by ISS at the time of the survey for use in design.

SECTION II: SCOPE OF SERVICES

TASK 1 – TOPOGRAPHIC SURVEY (AS DEFINED IN CHAPTER 5J-17 ADMINISTRATIVE CODE)

ISS will complete the following tasks as part of this Project:

1. Using the nearest published horizontal and vertical control in combination with the Florida Department of Transportation (FDOT) Florida Permanent Reference Network (FPRN), ISS will establish a minimum of three (3) site control points with NAD 1983 State Plane coordinate values and NAVD 88 vertical values for the collection of data and to be used as site benchmarks.
2. Establish all ROW lines, easement lines, and approximate lot lines within the project area.
3. Map all above ground existing conditions utilizing conventional survey and GPS real-time kinematic (RTK) methods along the route. Collect any horizontal and vertical values for underground utilities marked with ground penetrating radar (GPR), electronic locator, or identified with test pits by GPRS, LLC.
4. Fly a predefined route in accordance with all Federal Aviation Administration (FAA) part 107 regulations with a DJI Phantom 4 Pro drone to obtain aerial images. Aerial images will be processed via Pix4D photogrammetry software for high-definition image and elevation contour lines.

SECTION III: SUBCONSULTANTS

GPRS, LLC

SECTION IV: CLIENT'S RESPONSIBILITY

The following will be the responsibility of the City to provide to the ISS project team:

1. Access to the project site and any locked gates within the project areas.
2. Any GIS and or as-built utility information that is available to aid GPRS, LLC.

SECTION V. DELIVERABLES

ISS will provide the following deliverables as part of this Project:

- Task 1 - Existing Conditions Map: Three (3) copies of signed and sealed survey maps and one (1) digital copy delivered on CD or USB drive.

SECTION VI. SCHEDULE

ISS will begin survey field work for each task within two (2) weeks of receiving the signed proposal from the City. Field work and drafting will be complete within four (4) weeks of Project commencement. Survey map deliverables will be provided to the City within five (5) days thereafter.

SECTION VII. COMPENSATION

The City shall compensate ISS a lump sum fee of Twenty-Two Thousand Nine Hundred Eighty dollars (\$22,980) for the scope of services specified in this task order.

Any additional unforeseen expenses will be identified for approval from the City before incurring and billed with the final invoice.



Exhibit 1: Fee Schedule by Task

TASK #	TASK DESCRIPTION	FEE
1	Establish survey control = 26hrs @ 2-man crew rate of \$140	\$3,640
2	Perform cross sections and locate improvements = 45hrs @ 2-man crew rate of \$140	\$6,300
3	Locate property control = 12hrs @ 2-man crew rate of \$140	\$1,400
4	Perform cross sections and boat work in canals = 8hrs @ 2-man crew rate of \$140	\$1,120
5	Survey drafting = 36hrs @ Draftsmen Tech II rate of \$90	\$3,240
6	Drone flight field operations and supplemental utility locates = 10hrs @ 2-man crew rate of \$140	\$1,400
7	Drone data processing = 8hrs @ Draftsmen Tech II rate of \$90	\$720
8	Sr. Professional Surveyor & Manager = 18hrs @ rate of \$150	\$2,700
TOTAL FEE		\$20,520

SECTION VIII: ACCEPTANCE

If the above scope and fees meet your approval, please indicate by returning one signed copy to ISS which will constitute an "Agreement and Notice to Proceed" for the accomplishment of this work.

Infrastructure Solution Services

City of North Port, FL

Brian Stahl

 Brian Stahl, PE - Managing Member

 Jennifer Fehrs, PE - Utilities Engineer

01/15/21

 Date

 Date

Enclosures: 4







January 14, 2021

ISS

Attn: Chris Siravo

Project: North Port Water Pipeline Bridge Replacement

Submitted By:

Micah Slankard

407.335.6588

Micah.Slankard@gprsinc.com

GPRS appreciates the opportunity to provide this proposal. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed. Our insurance certificate and W-9 can also be downloaded [here](#).

SCOPE OF WORK

We understand the scope of work to be to search for underground utilities in (4) areas as shown in the images on the following pages. We will attempt to trace any utilities for which there are structures visible from the work area. Utilities will be marked on the surface using paint, flags, or other appropriate means. The client will be responsible to provide drawings or notify GPRS of any utilities known to be entering the work area for which there are no apparent surface features or structures that are visible from the work area. The areas should be laid out, marked, and cleared of obstructions prior to our arrival in order to avoid additional charges. Please notify GPRS in advance should additional reporting or mapping be required beyond field markings and our standard job summary. Please visit www.simspec.org for an overview of our industry-leading best practices that will be applied to this project.

EQUIPMENT

- **Underground Scanning GPR Antenna.** The antenna frequencies range from 250 MHz-450 MHz is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed in order to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the types of materials being scanned through. Some soil types such as clay may limit maximum depths to 3' or less. As depth increases, targets must be larger in order to be detected and non-metallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: [Link](#)
- **Electromagnetic Pipe Locator.** The EM locator can passively detect the electromagnetic fields from live AC power or radio signals travelling along some conductive utilities. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes, risers, or tracer wires. A current is sent through the pipe or tracer wire at a specific frequency and the resulting EM field can then be detected by the receiver. A utility's ability to be located depends on a variety of factors including access to the utility, conductivity, grounding, interference from other fields, and many others. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: [Link](#)

OPTIONAL EQUIPMENT

- **GPS.** This handheld GPS unit offers accuracy down to 4 inches, however, the accuracy will depend on the satellite environment and obstructions and should not be considered survey-grade. Features can be collected as points, lines, or areas and then exported into Google Earth or overlaid on a CAD drawing. For more information, please visit: [Link](#)

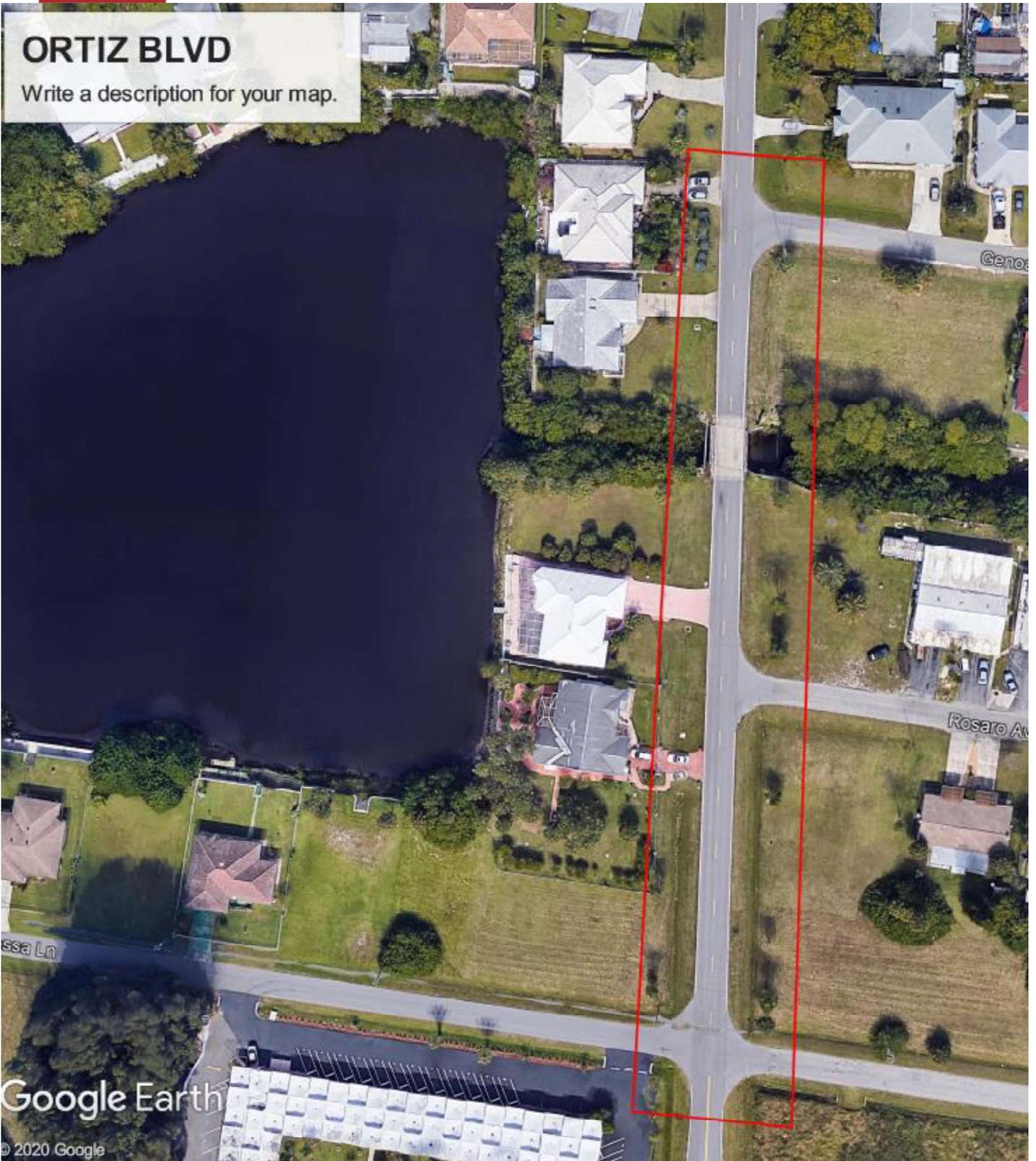


MAP OF SCAN AREAS



ORTIZ BLVD

Write a description for your map.

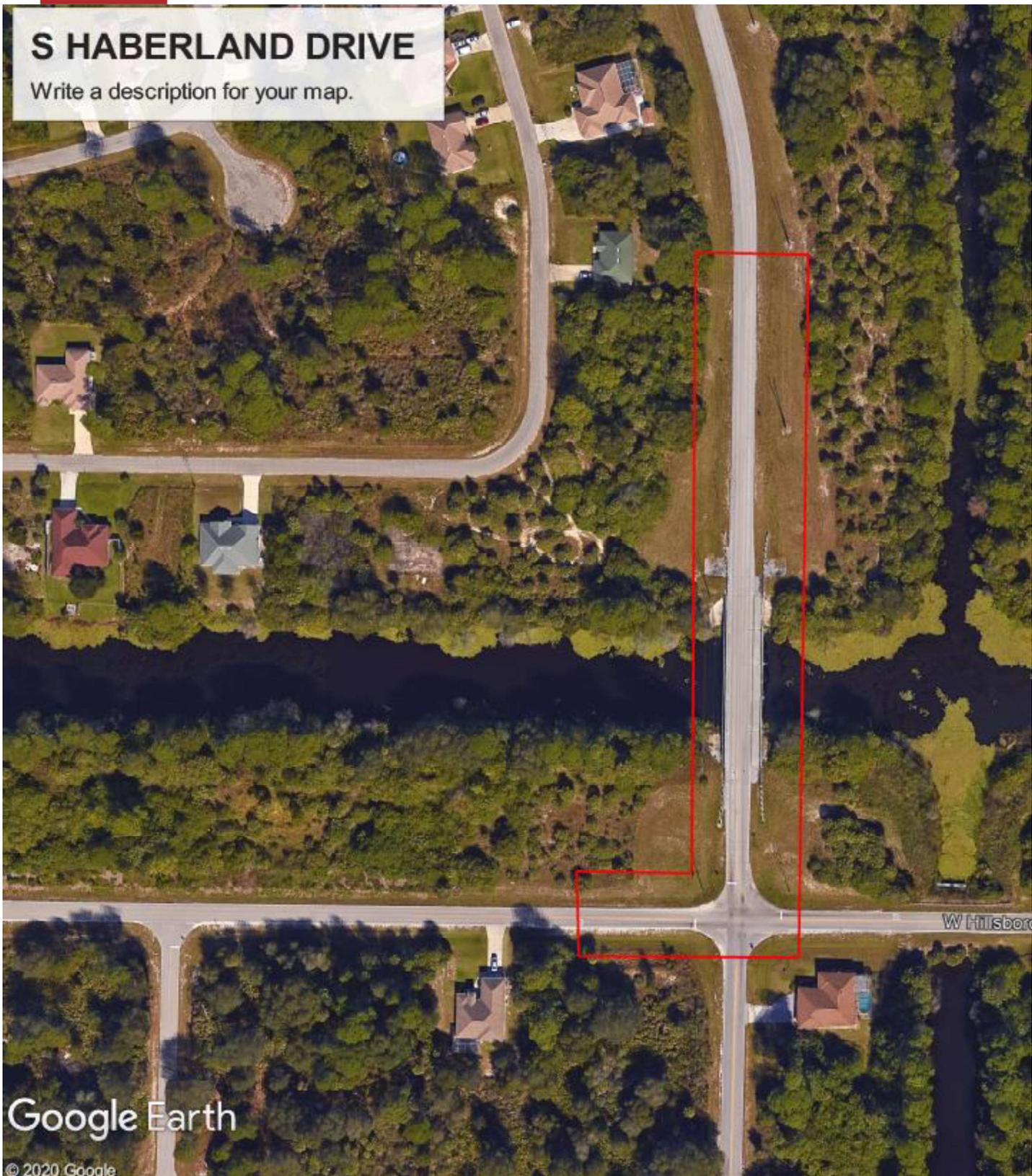


Google Earth

© 2020 Google

S HABERLAND DRIVE

Write a description for your map.



Google Earth

© 2020 Google

WOODHAVEN DRIVE

Write a description for your map.

Legend



Google Earth

© 2020 Google

500 ft

PROJECT COSTS

SERVICE	DESCRIPTION	PRICE	
SCANNING/FIELD MARKINGS	<i>Described on previous pages</i>	\$8,800	
MOBILIZATION	<i>To North Port FL</i>	\$800	
GPS MAP	<i>Findings will be collected with GPS and displayed with an aerial image background. Results are not survey-grade accuracy. See example: Link</i>	\$200/site INCLUDED	
HYDROEXCAVATION/POTHOLING	<i>GRPS will subcontract professional potholing and hydroexcavation services.</i>	\$9,900	
TRAFFIC CONTROL FOR POTHOLING	<i>GRPS will subcontract professional traffic control services.</i>	\$3,350	
ESTIMATED TOTAL		*\$19,500 - \$22,850	
OPTIONAL SERVICES (INITIAL IF DESIRED)			
FORMAL REPORT	Detailed report of findings with photos and example data. In addition to the basic summary report that is included with every job. See example: Link	Initial —	\$400
CAD DRAWING	Findings will be drafted in CAD with an aerial image background. A linework version will also be provided if the client provides an existing drawing. Results are not survey-grade accuracy. See example: Link	Initial —	\$400/site

* This price assumes that we will be given access to perform the work during normal weekday business hours (7am-5pm). As-builts and any other applicable drawings should be made available to GPRS prior to the project. A thorough utility search can only be completed if GPRS is given access to all utility structures, interior and exterior. This service is never a replacement for the use of the state One Call system (811). All our technicians have OSHA-10 safety training or greater. Site-specific safety training is not included in this quote. Please notify us if this project requires additional safety training.

This proposal is subject to the **General Terms and Conditions for Services of Ground Penetrating Radar Systems, LLC** posted at [Link](#) (the "Terms and Conditions") and is hereby incorporated by reference into and made a part of this proposal. Customer acknowledges it has read and agrees to be bound by such Terms and Conditions. In the event of any conflict between the terms of this proposal and the Terms and Conditions, the Terms and Conditions will prevail. Customer also acknowledges that Ground Penetrating Radar Systems, LLC may, from time to time and at its discretion, modify the Terms and Conditions and Customer agrees to be bound by such Terms and Conditions as modified.

PROPOSAL-SPECIFIC TERMS & CONDITIONS

1. Customer agrees to meet and perform all requirements described in this document and has fully read and understands all items listed within this document.
2. It is the customer's responsibility to prepare the site for scanning, including clearly identifying areas to be scanned, securing access to all areas required for scanning, and keeping these areas clear and free of obstructions. Delays caused by customer's failure to do so may result in an increased price.
3. GPRS does not conduct an investigation, analysis, or interpretation of soil composition, soil/concrete conditions, or geophysical, geological, engineering, or land surveying information. Customer acknowledges it understands that we are merely reporting retrieved data and that we do NOT provide geophysical, geological, engineering, or land surveying services. Customer should contact a professional in those fields if such services are needed.
4. If for some reason the technician arrives on site and the work is cancelled there will be a charge of \$500.00 per requested technician.

ACCEPTED AND AGREED:

Billing Company Name: _____

Billing Address: _____

Company Phone/Email: _____ PO#: _____ Job#: _____

Print **Name:** _____ Signature: _____ Date: _____



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- Panama City
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- Rockledge
- Sarasota
- St. Petersburg
- Tampa
- Tifton
- West Palm Beach

December 15, 2020

Infrastructure Solution Services
7319 Merchant Court, Suite B
Sarasota, FL 34240
(941) 228-4074 (Cell)
(941) 526-0813 x200 (Office)
DHowell@InfrastructureSS.com

Attention: Ms. Devyn M. Howell, P.E.

RE: **PROPOSAL TO PROVIDE GEOTECHNICAL SERVICES**

Proposed Water Pipeline Bridge Replacements
City of North Port, Sarasota County; Florida
UES Proposal Number: 1130.1220.000tba

Dear Ms. Howell:

Universal Engineering Sciences, LLC. (UES) appreciates this opportunity to submit this proposal to provide geotechnical services at the above referenced project. Our understanding of this project with our proposed scope of services and cost estimates, are presented below. Our proposal is based on the information provided in your email dated December 14, 2020.

PROJECT DESCRIPTION

The project under consideration involves the replacement of water pipelines at four (4) bridge locations within the City of North Port. The four water pipeline bridge replacement project locations are as follow:

- 1) Haberland Boulevard– 8-inch existing ductile iron water main
- 2) Woodhaven Drive – 8-inch existing ductile iron water main
- 3) N. Toledo Blade Boulevard at Snover – 12-inch existing ductile iron water main
- 4) Ortiz Boulevard– 8-inch existing ductile iron water main and 2-inch existing water service

UES was provided with aerial plans showing the project locations.

This proposal assumes that the test boring locations will be readily accessible using a truck mounted drilling rig.

Due to the nature of the equipment required to perform the test borings, some property disturbance should be expected. Our proposal does include limited site clean up including backfilling the boreholes with sand for safety considerations. No other restoration services (i.e. pressure washing, landscaping, repairing wheel ruts, etc.) are included in this proposal. We understand that rights of entry and access to the property will be provided to us prior to and at commencement of field activities.

If this information is incorrect, please contact UES so that we modify our proposal, if necessary.



SCOPE OF SERVICES

Based upon your request and our current understanding of the project, we have included the following scope of services for the project.

- Contact the local underground utility clearance agency prior to beginning the field exploration
- Eight (8) SPT borings to a depth of 35 feet below grade on either side of the bridge crossings (2 borings per bridge location)
- All boring locations will be backfilled/grouted to grade upon work completion

Standard Penetration Test (ASTM D 1586) will be performed in the boring continuous to a depth of 10 feet and at five feet intervals to the boring termination. Our field representative will visually classify the soil samples at each test interval and place them in clean containers which are labeled for future identification. Groundwater levels will be obtained in the boring upon initial encounter.

The soil samples will be transported to our laboratory for visual classification testing, and to evaluate the pertinent engineering properties. At the completion of the field and laboratory testing services we will prepare a report under the direction of a registered professional engineer which contains the following information at a minimum:

- Soil boring logs and visual soil classifications
- Existing groundwater levels
- Soil design parameters
- Laboratory testing results

SCHEDULE

Based upon our current schedule at the time of this proposal, we anticipate completing the field exploration and laboratory testing program and issuing a geotechnical report within 2 weeks upon receipt of written authorization to proceed. Preliminary findings can be provided via email prior to the release of the final report upon completion of the field and laboratory testing program to expedite your civil engineering design schedule.

PROPOSAL

UES is prepared to perform the geotechnical exploration for the total fee of **\$6,800.00**.

We have assumed that all boring locations are accessible to standard, truck-mounted drilling equipment, and you will grant our personnel Right of Access to the property. **If there are special access considerations (i.e. a locked gate), please provide us with the necessary information to gain entry to the site.** If we are unable to access the property upon arrival, additional charges may apply.

Enclosed you will find our Work Authorization/Proposal Acceptance Form. If you wish for us to proceed, please have the party responsible for payment sign the appropriate space on the Work Authorization/Proposal Acceptance Form and return one copy to us.

Universal Engineering Sciences appreciates this opportunity to offer our services, and we are looking forward to the assignment. Please call if you have any questions.



UNIVERSAL ENGINEERING SCIENCES, LLC.

Geotechnical Engineering • Geophysical Assessments

Environmental Sciences • Pavement Evaluations

Construction Materials Testing

Sincerely,

UNIVERSAL ENGINEERING SCIENCES, LLC.

A handwritten signature in blue ink that reads 'Yudelsy Epler'.

Yudelsy Epler
Project Engineer

A handwritten signature in blue ink that reads 'Robert Gomez'.

Robert Gomez, P.E.
Branch Manager

