



July 12, 2021

Mr. Peter Kunen, P.E.
Assistant Director of Public Works/City Engineer
City of Hallandale Beach
630 NW 2nd Street
Hallandale Beach, FL 33009

**Re: N.E. 7th Street and N.E. 8th Street Water Main Improvements Project
City of Hallandale Beach, FL**

Dear Mr. Kunen:

In accordance with Resolution No. 2020-054, RFP #FY 2018-2019-012 Continuing Professional Architectural and Engineering Services and Other Services, the following scope of services is provided by Kimley-Horn and Associates, Inc., (hereinafter referred to as “Consultant”, “We” or “Kimley-Horn”) to the City of Hallandale Beach, (hereinafter referred to as “Client” or “City”) as requested to provide Water Resources/Stormwater Design/Wastewater Engineering Services associated with the N.E. 7th Street and N.E. 8th Street Water Main Improvements Project.

Project Understanding

The intent of the project is to provide a new potable water main located in the City of Hallandale Beach, Florida. The proposed potable water main will be located on N.E. 7th Street from N.E. 1st Avenue to N.E. 12th Avenue, N.E. 8th Street from Federal Highway to N.E. 12th Avenue, Federal Highway from N.E. 7th Street to N.E. 8th Street, and N.E. 12th Avenue from N.E. 7th Street to N.E. 8th Street. The total length of the proposed water mains is approximately 6,500 feet. The City intends to replace existing aging infrastructure with a new water distribution system to provide reliable potable water, improved fire hydrant coverage, and new water services. The project will include relocating existing infrastructure from alleys or utility easements behind properties to the public right-of-way or roadways for front of property connections including new meter boxes, water meters, and service lines. The proposed professional services include design, permitting, bidding assistance, and post design services. The City will be selecting the specific pipe diameter(s) for the proposed water main improvements. This scope of work does not include Basis of Design Report, hydraulic analysis, feasibility and/or route study.

Scope of Services

The Scope of Services for the project will be provided by the Consultant and its Sub-consultants Craig A. Smith & Associates site survey and Subsurface Utility Exploration (SUE) services and Tierra South Florida for geotechnical services.

Task 1 - Project Kick-Off

The Consultant will prepare for and coordinate a kick-off meeting with City of Hallandale Beach staff to introduce the project team, discuss the proposed project improvements, and develop project goals. The following items will be discussed as part of the kick-off meeting:

- Obtain pertinent contact information for entities such as private utilities, surrounding schools, and fire stations as applicable for project coordination.
- Obtain existing Hallandale Beach utility/master plan information for the proposed water main design.
- Obtain a water meter inventory for the complete project area.
- Perform a preliminary site ride to further observe existing conditions for site survey coordination.
- Discuss regulatory/permitting requirements.
- Discuss project schedule.

Task 2 – Site Survey

The Consultant will provide a topographic survey prepared by a Florida registered professional land surveyor meeting horizontal and vertical requirements for design survey. The survey will be used as the base map for overlaying the proposed design and will consist of approximately 6,500 LF roadway including adjacent intersection limits. During this phase, the Consultant will perform the following tasks:

- The survey limits will be based on the project area as discussed under the Project Understanding.
- Establish horizontal and vertical control points to support the survey efforts.
- Vertical control (elevations) will be based on North American Vertical Datum of 1988.
- Elevations will be measured approximately every 100 feet, and high and low spots.
- Locate surface features within the survey limits such as pavement, driveways, swales, sidewalks, slabs, curbs, walls, fences, and signage.
- Locate visible surface evidence of utilities such as utility poles, guy wires, street lighting, storm sewer structures, sanitary sewer structures, wire pull boxes, cable enclosures, utility cabinets, valves, valve boxes, meter boxes, backflow preventers, fire hydrants, and overhead utilities.
- Measure the rim and invert elevation of sanitary and storm sewer structures.
- Locate pavement striping.
- Locate trees three caliper inches in diameter or larger.
- Compile data and prepare AutoCAD drawings.

Deliverables: The following deliverable shall be provided under Task 2:

- Basemap survey plan in digital AutoCAD and PDF formats prepared by a professional land surveyor registered in the State of Florida.

Task 3 – Geotechnical Services

The scope of geotechnical services will include the performance of soil borings, pavement cores, laboratory testing, data evaluation, engineering analysis, construction recommendations and considerations for the installation of the proposed water main improvements. The findings will be presented in a Geotechnical Report prepared for the project. Based on an estimated spacing of 1 boring per every 1,000 feet, seven (7) soil borings to a depth of six (6) feet below the existing ground surface will be provided for water main improvement area. Seven (7) pavement cores will be provided as well.

Deliverables: The following deliverable shall be provided under Task 3:

- Two copies of geotechnical report signed and sealed by professional engineer.

Task 4 - Subsurface Utility Exploration

The Consultant shall retain the services of a Subsurface Utility Exploration (SUE) company in an effort to locate and mark underground utilities in select areas of the project as determined by the Consultant. The work shall include locating: gas, water, electric, telecommunications and cable television where possible. It is estimated that field efforts will include up to thirty (30) “soft dig” locations. Note, “soft dig” is defined as 1) exposing and confirming the utility and providing horizontal and vertical data (test hole), 2) cutting and removing sod, asphalt or concrete surface at the selected locations, 3) using vacuum excavation techniques to safely expose the facility, 4) measure and record the depth to the top of the facility, and 5) back fill the test hole with native soil, compact in lifts and provide restoration of surface to original condition or better. This information will be used in the plan production of the proposed water main improvements.

Note: Based on the information provided by the SUE company, utility locations will be provided in an effort to reduce the likelihood of damage during excavation. The Consultant does not guarantee that all utilities will be able to be verified in the field by this technology.

Deliverables: The following deliverable shall be provided under Task 4:

- Horizontal alignment sketches designating existing utilities as detected from the surface. The sketches will include photographs of spray paint markings produced in the field.
- Test hole results report listing size, depth from surface and type of material found.
- Install an identifiable above ground marker at the test hole location consisting of a nail and disk in asphalt, or iron rod and cap with survey stake in grassed areas.

Task 5 - 30% Design Submittal

During this phase, the Consultant will perform the following tasks:

- Review existing utility/master plan and meter inventory information obtained from the City. Proposed watermain connection points will be determined and coordinated with the City, but pipe sizing will be based on master plan information. Hydraulic modeling is not included in this scope of work.
- Contact utility owners/companies and request any available information depicting the locations and configuration of existing utilities within and around the project area.
- Perform site walk to verify the information on the route survey prepared in Task 2 and make notations regarding existing conditions.
- Perform preliminary coordination with regulatory agencies having jurisdiction over the project to discuss permitting requirements, required fees, and estimated durations for approval.
- Develop the preliminary water main layout for water service, fire flow coverage, and system redundancy. The intent is to not design each water service location/installation as part of the water meter relocation program but to utilize a typical water service installation detail.
- The water main improvements are proposed to be located in the City’s or Florida Department of Transportation (FDOT) right-of-way, but coordination will be required to place new water

services on current private property and to abandon existing water distribution and water service piping currently located behind properties. The Consultant will assist in identifying needs to obtain temporary and/or permanent easements in order to construct the proposed improvements, but the City will coordinate with residents as needed for access to private property. Any easements or right-of-way acquisitions including potential survey/sketches are to be addressed by the City and are not included in this scope of work. If requested by the City, this effort can be provided as an additional service.

- Using the field survey performed in Task 2, the consultant shall prepare 30% plans for the proposed water main improvements within the project area. The 30% plans will be a horizontal alignment in plan view only for coordination of the proposed approach. Profile sheets will not be included in the 30% plans.
- The 30% plans will consist of a cover sheet with location map, index of sheets and preliminary construction notes. The water system improvements will be based on City of Hallandale Beach and/or Broward County Utility Standards.
- The Consultant shall submit 30% design submittal for City review. The 30% plans shall be submitted on 11" x 17" plan sheets.
- The Consultant shall attend one (1) coordination meeting with the City to address/review comments.
- The Consultant shall prepare an initial opinion of probable cost (OPC) based on the 30% design submittal.

Deliverables: The following deliverable shall be provided under Task 5:

- Three (3) original sets of the 30% design submittal (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the initial OPC.

Task 6 - 90% Design Submittal

Once the 30% plans have been approved by the City, these will be used as the basis for preparing the 90% design submittal. At this point, any changes requested by the City to the approved horizontal alignment due to reasons other than unforeseen conditions will be considered additional services. The intent of this task is to further develop the 30% design submittal previously approved in Task 5 and prepare a design denoting the proposed horizontal and vertical alignments for the water main improvements as follows:

- The Consultant will prepare 90% plans that will further refine the horizontal alignment of the proposed water main system, incorporate 30% review comments, and develop profile views showing the preliminary vertical alignments in reference to existing utilities.
- The profile views will provide the "best available" locations, depths and sizes of existing underground utilities that cross and may be in potential conflict with the proposed water main. The Consultant will coordinate with the City on the use of SUE as described in Task 4 to further identify the horizontal and vertical locations of the conflicting utilities as needed.
- The 90% plans will include water system components such as valves, meter box locations, and fire hydrants as well as typical detail(s) for water service conversions from back of house to front of house, demolition of existing meters, and construction requirements for private property coordination prior to start of work.

- The 90% plans will include preliminary roadway restoration plans identifying the limits of the roadways that will be impacted by utility improvements, roadway restoration/construction details, stormwater pollution prevention plan details, and signing and pavement marking details. Stormwater and landscaping improvements are not included as part of this scope of work but can be provided as an additional service.
- The Consultant shall submit the 90% design submittal for City review. The 90% plans shall be submitted on 11" x 17" plan sheets.
- The Consultant will prepare bid documents that will include technical specifications and bid form. The Front-End contract documents will be provided by the City.
- The Consultant shall attend one (1) coordination meeting with the City to address/review comments.
- The Consultant shall update the OPC.

Deliverables: The following deliverables shall be provided under Task 6:

- Three (3) original sets of the 90% design submittal (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the Bid documents, electronic copy in PDF and Word
- One (1) copy of the updated OPC.

Task 7 – Final Design Submittal

Once the 90% plans have been approved by the City, these will be used as the basis for preparing the final design submittal. At this point, any changes requested by the City to the approved horizontal alignment due to reasons other than unforeseen conditions will be considered additional services. The intent of this task is to finalize the plans as follows:

- Incorporate 90% design drawing review comments.
- Adjust the proposed horizontal and vertical alignments to reflect the SUE findings.
- The Consultant shall submit the final plans for City review. The Final design submittal will include the bid documents and design plans. The design drawings shall be submitted on 11" x 17" plan sheets.
- The Consultant shall finalize the OPC.
- Once comments are addressed, or if no comments or corrections are necessary, the Consultant shall submit the Final design submittal to the City.

Deliverables: The following deliverables shall be provided under Task 7:

- Three (3) original sets, signed and sealed of the Final Plans (24" x 36" plan sheets) and Bid Documents, with one (1) electronic copy.
- One (1) copy of the final OPC.

Task 8 - Permitting

The Consultant will prepare and submit applications, supporting documents and plans for review by the following agencies:

- City of Hallandale Beach Public Works - Review of plans for water main improvement work and coordination with the City Staff.
- Florida Department of Transportation (FDOT) – Review of plans for work within the FDOT right-of-way.
- Broward County Traffic Engineering Division (BCTED) - Review of plans for signing and marking throughout the project area.
- Florida Department of Environmental Protection (FDEP) – Application for the proposed water main construction permit. FDEP Form 62-555.900(7) - Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWS.
- The Consultant will prepare permit application packages for submittal to the regulatory agencies associated with the water main improvements. Permit applications will require City signatures and all permitting fees will be paid by the City.
- The Consultant shall respond to reasonable permit comments from the regulatory agencies.
- No portion of the proposed water main is located on roadways owned by Broward County. Permitting through Broward County Highway Construction and Engineering Division (BCHCED) is not included in this scope of work.

Deliverables: The following deliverables shall be provided under Task 8:

- Permit application packages for signature by the City.

Task 9 - Bidding Assistance

- The Consultant shall prepare an agenda and attend a pre-bid meeting. The Consultant shall respond to questions from prospective bidders.
- The Consultant shall provide supplemental information to prospective bidders during the bidding process. Addendums will be issued by the City.
- The Consultant shall review bids to determine the most responsible and responsive bidder and provide the City with a recommendation for award of the construction contract.

Task 10 - Post Design Services

The following scope is based on a twelve (12) month construction duration and on the post design hours shown below for this task.

- The Consultant shall attend and prepare minutes for a pre-construction meeting.
- The Consultant shall review shop drawings, product data, cut sheets, and submittals to determine compliance with the drawings and specifications, and recommend submittal action to the City.
- The Consultant shall make periodic site visits for the purpose of determining general compliance with the approved project plans and specifications. Site visits will be performed by the Consultant's inspector. Four (4) site visit per month estimated at four (4) hours per visit. Assume forty-eight (48) site visits. The Consultant will provide site reports for each visit.
- The Consultant shall provide responses to Requests for Information (RFI's). Assumes 10 RFI's.
- The Consultant shall assist the City with review of the Contractor's payment applications and provide comments and/or recommendations. Assumes 12 payment application reviews.

- As part of activating any new water distribution system improvements, coordination with the Florida Department of Environmental Protection (FDEP) will be required to confirm the new system has been pressure tested and disinfected properly. The Consultant will assist the City in developing permit coordination packages to submit for FDEP clearance. Permit packages will require City signatures, and all permit fees will be paid by the City. The Consultant will review Asbuilt drawings prepared, provided, and certified by the Contractor for incorporation into the FDEP clearance packages.
- Once the Contractors advise that their project is substantially complete, the Consultant shall participate in a substantial completion walk through and prepare a project punch list.
- Once the Contractors advise that the project punch list is complete, the Consultant shall participate in a final completion walk through to confirm items have been addressed.
- In addition to the FDEP clearance packages, the Consultant shall coordinate closing permits with the other agencies listed in Task 8.

The Consultant shall not be responsible for the acts or omissions of any Contractor or subcontractor, any of the Contractor(s)' or subcontractor(s)' agents or employees, or any other persons (except the Consultant's own employees and agents) at the site or otherwise performing any of the Contractor(s)' work.

Project Assumptions

- City shall provide access to site.
- City shall provide and coordinate complete Front-End documents.
- Water main specifications and details will be based on City of Hallandale Beach or Broward County Standards.
- City will provide all permit application fees.

Additional Services

The Consultant will provide, as requested and authorized by the City, additional services that may be required above and beyond those described in Tasks 1 through 10. These services may include but are not limited to such items as the following:

- Attendance at Progress Meetings during construction
- Post Design services beyond the anticipated twelve (12) month construction duration
- Relocations/modifications of existing City utilities other than the proposed water main improvements.
- Sketch and legal drawings for the purpose of obtaining easements.
- Roadway and/or sidewalk design/improvements other than site restoration for the proposed water main improvements.
- Drainage design/improvements.
- Landscaping and irrigation design/improvements.
- Hydraulic modeling.
- Development of Record Drawings
- Public Outreach Program

Project Schedule

The Consultant shall perform the services identified in Tasks 1 – 8 within 300 days of the written Notice to Proceed. Tasks 9 and 10 shall be determined based on the bid date.

Method of Compensation

The Consultant will accomplish the services outlined in Tasks 1 through 10 for an amount not to exceed \$488,168.00. The following task items represent a breakdown of the proposed fee for reference:

Task 1 – Project Kick-Off	\$5,125.00
Task 2 – Site Survey	\$31,805.00
Task 3 – Geotechnical Services	\$10,913.00
Task 4 – Subsurface Utility Exploration	\$20,640.00
Task 5 – 30% Design Submittal	\$107,580.00
Task 6 – 90% Design Submittal	\$143,850.00
Task 7 – Final Design Submittal	\$51,960.00
Task 8 – Permitting	\$25,305.00
Task 9 – Bidding Assistance	\$6,625.00
Task 10 – Post Design Services	\$84,365.00
<hr/>	
Not to Exceed Amount	\$488,168.00

Closure

The terms and conditions of the City of Hallandale Beach’s “Continuing Professional Architectural and Engineering Services and Other Services; RFP 2018-2019-012” shall govern this scope of services.

I appreciate this opportunity to submit this proposal. If you have any questions or need additional information, please contact me at (954) 535-5100.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.



Gary R. Ratay, P.E.
Vice President



WORK PLAN - FEE SCHEDULE

PROJECT: N.E. 7th Street and N.E. 8th Street Water Main Improvements Project	SHEET:
CLIENT: City of Hallandale Beach	PROJECT NO.:
ESTIMATOR: Gary R Ratay	DATE: 07/12/21

DESCRIPTION:	Senior Engineer	Associate Engineer	Director Engineer	Project Manager	Project Engineer	Engineer	Junior Engineer	Support Specialist	Inspector	Survey Sub	Geotechnical Sub	SUE Sub	Expenses	Line Total	Task Total
Task 1 - Project Kick-Off															
Project Kick Off Meeting - Discussion pertinent project items					2	2								\$780.00	
Obtain available master plan, water meter inventory, and utility information					6	6	10		1					\$3,955.00	
Preliminary site ride					1	1								\$390.00	\$5,125.00
Task 2 - Site Survey															
Site survey services (Craig A. Smith & Associates)											\$25,470			\$25,470.00	
Provide locates as part of site survey										\$3,250				\$3,250.00	
Coordination and CAD file development					4	4	4	6	1					\$3,085.00	\$31,805.00
Task 3 - Geotechnical Services															
Geotechnical services with reports (Tierra South Florida)											\$8,418			\$8,418.00	
Coordination and report review					2	6	6		1					\$2,495.00	\$10,913.00
Task 4 - Subsurface Utility Exploration															
SUE services (Craig A. Smith & Associates), Estimate 30 test holes												\$14,850.00		\$14,850.00	
Coordinate with SUE/Survey subconsultant					4	6	12	12	4					\$5,790.00	\$20,640.00
Task 5 - 30% Design Submittal															
Review existing master plan/water system information					6	10	20		2					\$6,270.00	
Review water meter inventory/addresses					4	10	10							\$4,110.00	
Contact/coordinate with utility companies						4	6		1					\$1,715.00	
Site Visit for survey review						4	4							\$1,300.00	
Preliminary coordination with permitting agencies					2	4	6		1					\$2,145.00	
Develop preliminary water system layout				2	20	40	40	80						\$28,550.00	
Develop preliminary approach for water service connections					10	20	40	40						\$17,050.00	
Preliminary easement determinations						10	20	20						\$7,450.00	
Develop 30% construction drawings in plan view only				4	20	40	60	100						\$34,700.00	
Finalize 30% design submittal and submit to the City					2	4			2				\$500	\$1,860.00	
Meet with City to review 30% design submittal					3	3			1					\$1,285.00	
Develop Opinion of Probable Cost (OPC)					2		4		1					\$1,145.00	\$107,580.00
Task 6 - 90% Design Submittal															
Incorporate 30% review comments					10	20	20	20						\$11,350.00	
Incorporate existing utility information					10	20	40	60						\$19,750.00	
Further develop water system design and construction details					10	20	60	80						\$25,450.00	
Develop 90% construction drawings in plan and profile.				4	30	60	80	100						\$43,350.00	
Develop roadway restoration and signing and marking plans					10	20	40	60						\$19,750.00	
Develop stormwater pollution prevention details.					2	10		10						\$3,530.00	
Develop bid form and specification package					10	20	20		10					\$9,800.00	
Finalize 90% design submittal and submit to the City					2	4			2				\$500	\$1,860.00	
Meet with City to review 90% design submittal					4	4			1					\$1,675.00	
Submit 90% construction drawing packages to permitting agencies					4	10	10	10	2				\$500	\$6,190.00	
Provide updated OPC					2		4		1					\$1,145.00	\$143,850.00
Task 7 - Final Design Submittal															
Incorporate 90% review comments					4	6	10	10						\$4,760.00	
Incorporate SUE information					10	10	10	20						\$8,100.00	
Incorporate permit agency review comments					4	20	30	40						\$14,260.00	
Develop final construction drawings				4	10	30	40	40	6					\$20,390.00	
Finalize OPC					1		2		1					\$630.00	
Prepare final design submittal and submit to the City for bidding					2	4			2					\$1,360.00	
Assist City with finalizing bid document for bidding					2	4	4		2				\$500	\$2,460.00	\$51,960.00



WORK PLAN - FEE SCHEDULE

PROJECT: N.E. 7th Street and N.E. 8th Street Water Main Improvements Project	SHEET:
CLIENT: City of Hallandale Beach	PROJECT NO.:
ESTIMATOR: Gary R Ratay	DATE: 07/12/21

DESCRIPTION:	Senior Engineer	Associate Engineer	Director Engineer	Project Manager	Project Engineer	Engineer	Junior Engineer	Support Specialist	Inspector	Survey Sub	Geotechnical Sub	SUE Sub	Expenses	Line Total	Task Total
Task 8 - Permitting															
City of Hallandale Beach plan review submittal				4	4	8	8	1						\$3,955.00	
Florida Department of Transportation permit applications				6	6	10	10	1						\$5,305.00	
Broward County Traffic Engineering Department plan review submittal				6	6	10	10	1						\$5,305.00	
Florida Department of Environmental Protection permit applications				6	10	10	20	2						\$7,470.00	
Submit and coordinate permitting packages for signatures				4	6	6		4						\$3,270.00	\$25,305.00
Task 9 - Bidding Assistance															
Attend pre-bid meeting				2	2			1						\$895.00	
Respond to reasonable RFTs				6	6	6		2						\$3,470.00	
Provide bid evaluation/recommendation				2	4	6		2						\$2,260.00	\$6,625.00
Task 10 - Post Design Services (Based on 360 day construction contract)															
Attend pre-construction meeting				2	2			1	2					\$1,105.00	
Shop drawing review				10	20	20		4						\$9,110.00	
Perform site visits - 4 visits/month, 4 hours/visit, 48 visits				48					192				\$2,500	\$32,980.00	
Respond to RFTs - 10 reviews				10	10	20		6						\$7,590.00	
Review pay applications - 12 reviews				12		12		6	24					\$7,590.00	
Prepare and submit certification packages for regulatory agencies				10	20	20	20	6						\$12,040.00	
Review As-Built drawings				4	6	6			10					\$3,860.00	
Perform substantial completion walk through and provide punch list				6	6			1	6				\$500	\$3,585.00	
Perform final site walk				2	2			1	2					\$1,105.00	
Permit close out process				6	10	10		2	6					\$5,400.00	\$84,365.00
TOTAL HOURS	0	0	14	361	556	756	776	83	242	\$28,720.00	\$8,418.00	\$14,850.00	\$5,000.00		
LABOR RATE (\$/HOUR)	270.00	250.00	225.00	215.00	175.00	150.00	135.00	115.00	105.00	1.0	1.0	1.0	1.0		
SUBTOTAL	\$0.00	\$0.00	\$3,150.00	\$77,615.00	\$97,300.00	\$113,400.00	\$104,760.00	\$9,545.00	\$25,410.00	\$28,720.00	\$8,418.00	\$14,850.00	\$5,000.00	\$488,168.00	\$488,168.00
PAGE TOTAL														\$488,168.00	\$488,168.00

**City of Hallandale Beach
Water Main Improvements Project
N.E. 7th Street and N.E. 8th Street**



**Engineer's Preliminary Opinion of Probable Cost
July 12, 2021**

Bid Item	Description	Quantity	Unit	Unit Price	Total Item Price
1	Mobilization, MOT, Bonds & Insurance	1	LS	\$230,000.00	\$230,000.00
2	Survey and Testing	1	LS	\$80,000.00	\$80,000.00
3	Water Main, 12" DIP	6,500	LF	\$160.00	\$1,040,000.00
4	Water Main, 6" DIP	450	LF	\$100.00	\$45,000.00
5	1" HDPE Water Service w/ tap and meter box	100	EA	\$1,800.00	\$180,000.00
6	2" HDPE Water Service w/ tap and meter box	30	EA	\$3,000.00	\$90,000.00
7	Residential service line (private property)	100	EA	\$1,500.00	\$150,000.00
8	Commercial service line (private property)	30	EA	\$3,500.00	\$105,000.00
9	Gate Valve, 12"	10	EA	\$5,000.00	\$50,000.00
10	Gate Valve, 6"	15	EA	\$3,000.00	\$45,000.00
11	Fittings	2.1	TN	\$16,000.00	\$33,600.00
12	Water Main Connections	4	EA	\$9,000.00	\$36,000.00
13	Fire Hydrant Assembly	15	EA	\$6,500.00	\$97,500.00
14	Air Release Valve Assembly	6	EA	\$2,500.00	\$15,000.00
15	Milling Existing Asphalt Pavement (minimum depth 1")	18,000	SY	\$8.00	\$144,000.00
16	Asphaltic Concrete Overlay	18,000	SY	\$18.00	\$324,000.00
17	Adjust Utility Covers	1	LS	\$10,000.00	\$10,000.00
18	Pavement Markings	1	LS	\$50,000.00	\$50,000.00
19	Grout/Abandon Existing Water Main	6,500	LF	\$15.00	\$97,500.00
20	Site Restoration/Signal Loop Replacement	1	LS	\$50,000.00	\$50,000.00
21	FDOT Permit Coordination and Special Conditions	1	LS	\$15,000.00	\$15,000.00
Sub Total					\$2,887,600.00
20% Contingency					\$578,000.00
Preliminary Opinion of Probable Cost					\$3,470,000.00

Notes:

- The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.
- Due to current conditions in the construction industry, this Opinion of Probable Construction Cost is based on our most current data. We have added a 20% contingency onto the OPC and it may still be below the actual bid.