

**WORK ORDER NUMBER**

2

**Septic to Sewer Design Project - Floravon Shores**

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This Work Order Number 2 is entered into as of this \_\_\_\_ day of \_\_\_\_\_, 2021, pursuant to that certain Continuing Contract Agreement for Professional Services, dated April 17, 2018, renewed and amended as of May 18, 2021, (referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and Schulke, Bittle and Stoddard, LLC ("Consultant").

The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit 1 (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit 2 (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit 3 (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

**CONSULTANT:**  
**Schulke, Bittle and Stoddard, LLC**

**BOARD OF COUNTY COMMISSIONERS  
OF INDIAN RIVER COUNTY**

**By:** \_\_\_\_\_  
**Joseph W. Schulke, P.E.**  
**Title: Managing Member**

**By:** \_\_\_\_\_  
**Joseph E. Flescher, Chairman**

**BCC Approved Date:** \_\_\_\_\_

**Attest: Jeffrey R. Smith, Clerk of Court and  
Comptroller**

**By:** \_\_\_\_\_  
**Deputy Clerk**

**Approved:** \_\_\_\_\_  
**Jason E. Brown, County Administrator**

**Approved as to form and legal sufficiency:** \_\_\_\_\_  
**Dylan T. Reingold, County Attorney**

**EXHIBIT '1'**  
**SCOPE OF WORK**  
**WORK ORDER NO. 2**

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Project Description

The proposed project will provide surveying, engineering design and permitting for the construction of a new 8" Gravity Sewer Collection system within Floravon Shores subdivision. The facilities shall provide sewage collection infrastructure to serve the existing home sites and platted lots, and provide stub-outs for future connections and extensions to serve adjacent properties. The gravity sewer main will be constructed from the east end (cul-de-sac) of 110<sup>th</sup> Street, and run west approximately 786 lf to the east side of the intersection of 110<sup>th</sup> Street and US 1; then the main shall run north along the east right-of-way of US 1 approximately 369 lf, where it will then turn east for 51 lf, and connect to an existing Indian River County Department of Utility services Sewage Lift station, where the sewage collected will be pumped to the Indian River County Department of Utility services wastewater treatment Plant.

The construction will provide existing utility customers that currently only are provided with water service, the ability to connect to the IRC regional wastewater collection and treatment system; and the connection of existing customers to the system will provide opportunities for existing residences to abandon existing septic systems, which shall benefit the environment and water quality enjoyed by all Indian River county residents.

Scope of Services

Schulke, Bittle & Stoddard, L.L.C. will provide services including surveying, engineering design, preparation of construction plans, preparation and submittal of permit applications, preparation of contract / bid documents, construction administration and periodic construction field inspection for the construction of the new 8" Gravity Sewer Collection system within Floravon Shores subdivision. (see Attachment "A" for location and Attachment "B" for construction cost tabulation).

The estimated cost for this project is \$434,068.68 (\$389,318.68 for construction and \$44,750.00 for engineer).

In connection with this project, the County will provide the Engineer with a copy of any pertinent Preliminary Data or Reports; all available drawings in electronic AutoCADD format; all surveys, maps and other documentation in the possession of or reasonably available to the County that are pertinent to the project.

Services not included in this scope of services are listed as follows:

- Excavation for field verification of actual locations of existing underground utilities and structures. It is requested that Indian River County provide the excavation as directed by Schulke, Bittle & Stoddard, L.L.C.
- Any services associated with assisting Indian River County in review and evaluation of patent related disputes, issues, or claims including preparing to serve or serving as a consultant or witness for Indian River County in litigation, arbitration, public or private hearings, or other legal administrative proceedings involving patent related disputes, issues or claims.
- Any services in connection with the project not otherwise provided for in this scope of services.

In order to execute this project in the most cost effective manner with the most aggressive schedule, Schulke, Bittle & Stoddard, L.L.C. is retaining Houston, Schulke, Bittle & Stoddard, Inc. to prepare a route survey necessary for the design and construction of the project, and will retain KSM Engineering and Testing, Inc., for the geotechnical evaluation of the soils within the project.

**EXHIBIT '2'**  
**FEE SCHEDULE**  
**WORK ORDER NO. 2**

**Method and Amount of Compensation**

Schulke, Bittle & Stoddard, L.L.C., proposes to provide the above Scope of Services based on the following lump sum fees:

1.	Surveying: route survey of 110 <sup>th</sup> St and US 1, to include the establishment of a baseline of survey and baseline of construction, location of all existing pavement, utilities and other improvements, and establishment of survey horizontal and vertical control.	\$4,250.00
2.	Geotechnical Evaluation: Soil borings - six borings (3 in C.L. pavement and 3 outside pavement). Cost includes ROW permit required to complete borings.	\$3,000.00
3.	Preliminary Engineering: Consultant coordination; field investigation, documentation review, system (lift station capacity) evaluation, base plan preparation.	\$6,500.00
4.	Engineering design, preparation of Construction Plans & Specifications, preparation and submittal of permit Applications. Preparation of bid documents. Assistance during Bidding, bid evaluation, contract award.	\$15,000.00
5.	Construction Administration (Pre-con, shop review, pay requests, change orders, minor plan modifications, Periodic Construction/Field Inspections, As-Built review, final documentation for close-out and final certifications.)	\$13,500.00
6.	Reimbursables: Reimbursement for payment of direct costs, including Reproduction and application fees. (See below for actual costs)	\$2,500.00 estimate
<b>Total:</b>		<b>\$44,750.00</b>

**Printing and Reproduction**

The County shall make direct payment to our office for the cost of printing project plan sheets required for utility coordination and for copies of reports, drawings, specifications, and other pertinent items required by federal, state and local agencies from whom approval of the project must be obtained, material suppliers, and other interested parties, but may charge only for the actual cost of providing such copies based on the following tabulation:

8 1/2" x 11"	\$ 0.12/sheet	Blue Line Prints	\$ 0.333/SF
11" x 17"	\$ 0.50/sheet	Reproducible Sepias	\$ 0.75/SF
3 1/2" diskette	\$ 2.00/each	Reproducible Mylars	\$ 1.00/SF
CD	\$ 4.00/each		

**Application Fees**

The county shall make direct payment to our office for the actual cost of all construction permit application fees paid to jurisdictional agencies, including but not limited to:

- IRC ROW – N/A (IRCDUS does not pay IRC ROW application fees)
- FDEP Sewer - \$250
- FDOT Utility – N/A
- FDEP NOI - \$400

**EXHIBIT '3'**  
**TIME SCHEDULE**  
**WORK ORDER NO. 2**

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**Time of Performance**

The estimated time frame for completion of services from the approval of this Work Authorization is as follows:

- |   |            |
|---|------------|
| 1. Surveying, Engineering Design & Preparation of Construction Plans, specifications and Bid Documents    | 4 ½ Months |
| 2. Submittal of Permit Applications and Receipt of permits And Bidding/Contract Award (Done Concurrently) | 1 Month    |
| 3. Construction   | 5 Months   |

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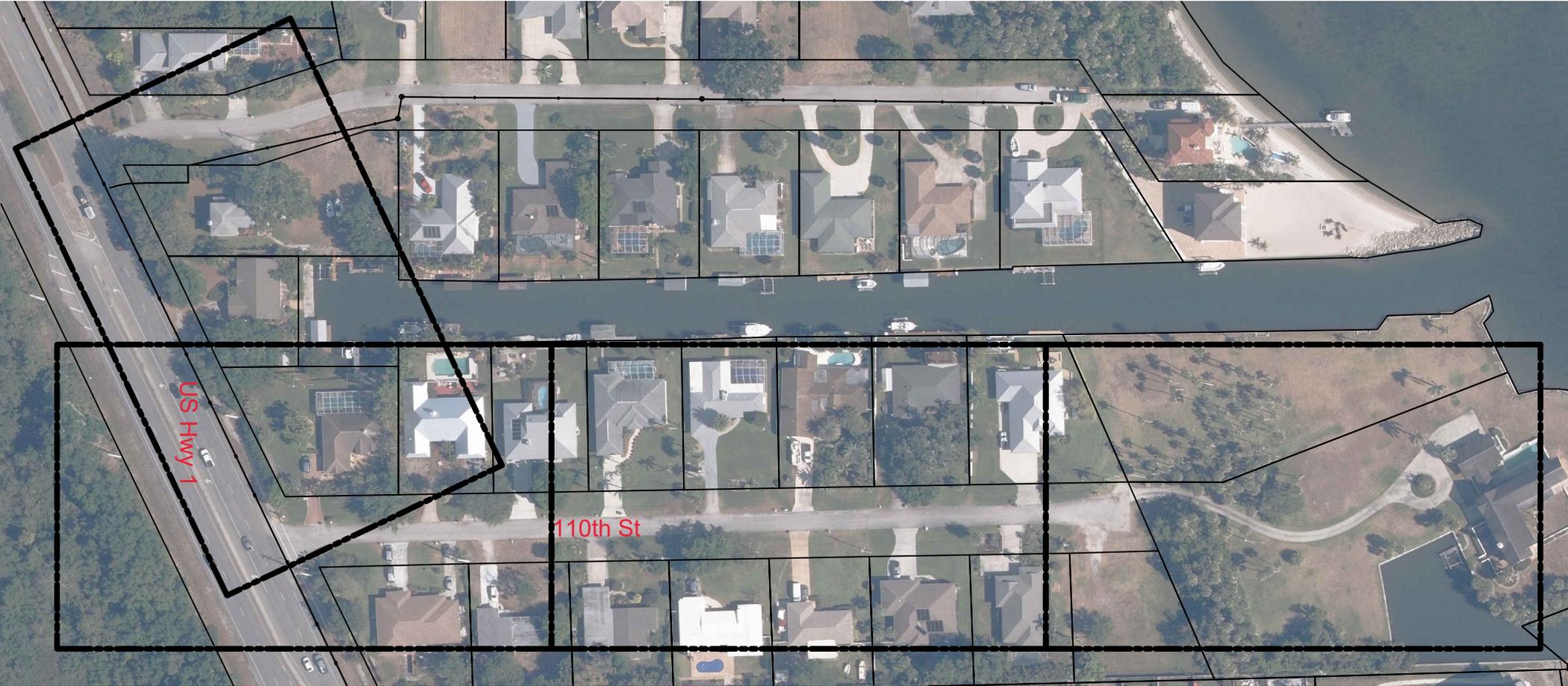
**FLORAVON SHORES**

	Engineer/Principal	Admin/Clerical	Draftsman / Construction Manager
<u>Concept / Proposal</u>			
• Coordinate with consultants, obtain proposals	1	1	1
• Prepare estimate / proposal	2	2	0
Subtotal	3	3	1
<u>Preliminary Engineering</u>			
• Coordinate with surveyor and geotechnical engineer	0.5	1	0
• Field investigation - locate septic systems/building drains			
• Letter notifications	0.5	2	1
• Field			8
• Sketch/provide to surveyor	1		2
• Obtain as-builts, lift station data, other documentation	0.5	2	
• Review documents	2		1
• Meeting with IRCDUS discuss project specifics	2	0.5	0
• ROW permit for borings/sketches/application	0.5		2
• Prepare existing conditions base drawing in CAD	1.5		8
• Combine base with survey			4
• Lift station capacity evaluation	4		
Subtotal	12.5	5.5	26
<u>Final Engineering</u>			
• Four (4) 20 scale plan / profile drawings	8	2	32
• Lift station plan (rehabilitation/modification)	6		8
• Detail sheets, other sheets	2		12
Subtotal	16	2	52
<u>Permitting</u>			
• IRCDUS submittal	1	2	1
• FDEP Sewer	1	2	1
• IRC ROW	2	2	2
• Revisions	2	1	4
Subtotal	6	7	8
<u>Bid Docs</u>			
• Summary of quantities	1.5		4
• Bid doc prep/submit to IRC (use IRCDUS forms provided by IRCDUS)	8	12	1
• Bid doc revisions	1	2	
• Pre-bid meeting	3	2	3
• Addendum/RFI	2	2	2
• Bid opening	1.5		
• Evaluate bids/recommendation	1.5	1	
• BCC - contract approval	1.5		
Subtotal	20	19	10
<u>Construction Administration</u>			
• Pre-Construction Meeting	2	2	2
• Shop drawing review	0.5		2
• Review Pay apps (assume 4)	2	1	4
• Field Observations (assume 15 weeks)	15	5	120
• Review as-builts	0.5		4
• Final Documentation			
• Permit certs / closeout		2	2
• Recommendation for final payment	0.5	1	1
Subtotal	20.5	11	135

<u>Summary</u>	Engineer / Principal	Admin/Clerical	Draftsman / Construction Manager
Contract/Proposal	3	3	1
Preliminary Engineering	12.5	5.5	26
Final Engineering	16	2	52
Permitting	6	7	8
Bid Docs	20	19	10
Construction Administration	20.5	11	135
Total Hours	78	47.5	232
	<u>x \$165</u>	<u>x \$66</u>	<u>x \$93.50</u>
Total Fee	\$12,870.00	\$3,135.00	\$21,692.00
<b>Total</b>	<b>\$37,697.00</b>		

<u>Consultants</u>	
Surveyor	\$4,250.00
Geotechnical	\$3,000.00
Reimbursables	\$2,500.00
Other adjustments	(Deduction) <u>\$2,697.00</u>
<b>TOTAL ESTIMATED COST</b>	<b>\$44,750.00</b>

# Attachment A



**ATTACHMENT B**

**#48 Floravon Shores Subdivision  
Gravity Sewer System Cost Estimate**

<b>Onsite</b>			<b>Engineer's Estimate</b>	
	<b>Unit</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total</b>
4' Diameter Manholes - Depth 8'-12'	EA	0	\$10,010.00	\$0.00
4' Diameter Manholes - Depth 4'-8'	EA	4	\$4,950.00	\$19,800.00
8" Gravity Sewer - Depth 8'-12' / Testing	LF	0	\$156.20	\$0.00
8" Gravity Sewer - Depth 4'-8' / Testing	LF	1206	\$96.80	\$116,740.80
8" D.I.P. Gravity Sewer - Shallow Depth < 36"	LF	0	\$66.00	\$0.00
Single Service Lateral	EA	2	\$1,017.50	\$2,035.00
Double Service Lateral	EA	8	\$1,375.00	\$11,000.00
4" PVC Force Main/ Fittings	LF	0	\$28.60	\$0.00
4" HDPE Directional Bore	LF	0	\$77.00	\$0.00
4" Driveway Bore	LF	0	\$55.00	\$0.00
Remove and Replace Shell/Gravel Driveways (at Force Main)	LF	0	\$26.40	\$0.00
Sewer Service Connections House to Street / Abandon Septic Tank	EA	27	\$3,190.00	\$86,130.00
Paved Road Restoration @ Gravity Sewer	LF	786	\$115.50	\$90,783.00
Dirt Road Restoration @ Gravity Sewer	LF	0	\$44.00	\$0.00
Lawn Restoration @ Gravity Sewer	LF	420	\$6.60	\$2,772.00
Construct County Lift Station, Complete and Operable, Concrete Drive & Housekeeping pad	LS	0	\$203,500.00	\$0.00
Maintenance of Traffic	LS	1	\$6,000.00	\$6,000.00
			<b>Subtotal</b>	<b>\$335,260.80</b>
Survey Stake-out / As-Built	%	1.50%	\$335,260.80	\$5,028.91
FPL 480 Volt Service	LS	0	\$22,000.00	\$0.00
			<b>Subtotal</b>	<b>\$5,028.91</b>
<b>Other</b>				
			<b>Onsite Subtotal</b>	<b>\$340,289.71</b>
<b>Offsite</b>				
4" PVC Force Main/ Fittings	LF	0	\$28.60	\$0.00
4" HDPE Directional Bore	LF	0	\$77.00	\$0.00
4" Driveway Bore	LF	0	\$55.00	\$0.00
6" PVC Force Main/ Fittings	LF	0	\$35.20	\$0.00
6" HDPE Directional Bore	LF	0	\$88.00	\$0.00
6" Driveway Bore	LF	0	\$77.00	\$0.00
4" Force Main Connection to Existing FM with Wet Tap and 4" Tapping Valve	EA	0	\$3,036.00	\$0.00
6" Force Main Connection to Existing FM with Wet Tap and 6" Tapping Valve	EA	0	\$3,850.00	\$0.00
Remove and Replace Shell/Gravel Driveways (at Force Main)	LF	0	\$26.40	\$0.00
Lawn Restoration @ Force Main	LF	0	\$6.60	\$0.00
Open Cut and Repair at Paved Road	LS	0	\$3,850.00	\$0.00
Dirt Road Restoration @ Force Main	LF	0	\$26.40	\$0.00
			<b>Subtotal</b>	<b>\$0.00</b>
<b>Other</b>				
			<b>Offsite Subtotal</b>	<b>\$0.00</b>
			<b>Total Construction Costs</b>	<b>\$340,289.71</b>
<b>Other</b>				
Contingency	%	10%	\$340,289.71	\$34,028.97
Mobilization	LS	1	\$15,000.00	\$15,000.00
			<b>Grand Total</b>	<b>\$389,318.68</b>

\* North Half of subdivision appears to have Lift Station and Sewer