

MOCK • ROOS
ENGINEERS • SURVEYORS • PLANNERS

February 9, 2017

Jason Hanchuk, P.E.
Village of Wellington
12300 Forest Hill Boulevard
Wellington, FL 33414

Ref. No.: B6710.00
Subject: C-11 and C-15 Canal Culvert Crossings and Bridle Trail Improvements

Dear Jason:

We are submitting the attached *Proposal to Provide Services for the C-11 and C-15 Canal Culvert Crossings and Bridle Trail Improvements*. Please review the attached documents and return one signed copy of the *Proposal* to our office as our authorization to proceed with the Scope of Services outlined in the proposal.

We will provide the Scope of Services on a lump sum basis for \$49,552.

If you have any questions please contact me at 683-3113, extension 293. Thank you for using Mock•Roos on this project. We look forward to working with you.

Sincerely,

MOCK, ROOS & ASSOCIATES, INC.

Garry Gruber, P.E.
Senior Vice President

TAB:jeh
Enclosure
Copies: Bookkeeping

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Mock, Roos & Associates, Inc.

5720 Corporate Way, West Palm Beach, Florida 33407-2066, (561) 683-3113, fax 478-7248

**Proposal To Provide Services
For the C-11 and C-15 Canal Culvert Crossings
And Bridle Trail Improvements**

Services to be provided by: Mock•Roos

Services provided to ("Wellington"): Village of Wellington

Proposal Date: February 9, 2017

Proposal Terms

A. Scope of Services:

Wellington desires to evaluate the existing culvert crossing at Wellington Trace and the C-15 Canal and upsize if necessary. In addition, Wellington desires to install a new culvert within the C-11 Canal to extend an existing bridle trail system across the canal via a culvert crossing. The length of the new Bridle Trail is 2,850 feet.

Mock•Roos will perform the following scope of services:

B. Scope of Services:

Task 1 – C-15 Canal Culvert Crossing

1.1 Evaluate Existing C-15 Canal Crossing Culvert

1. Participate in one site meeting to determine extent of observed conditions at site during recent weather events.
2. Evaluate previous hydraulic model results to determine if the stormwater conveyance system in this area is culvert controlled or channel controlled and if the expected conditions from the model vary from the observed conditions. Perform hydraulic design of a new culvert structure to improve existing conditions. The hydraulic design shall include one (1) run of the overall routing model with the proposed revisions to check for changes in the overall system performance radiating out from the proposed structure.

1.2 –Topographic Survey / Design Replacement Culvert

Once Task 1.1 is completed, Wellington staff will determine if Consultant shall proceed with Task 1.2. Wellington staff will provide written authorization prior to Consultant proceeding.

1. Provide the Services of a Professional Surveyor to:
 - a. Locate visible fixed improvements within proposed project limits

- b. Locate above ground existing utilities
 - c. Obtain elevations at 50 foot intervals and grade breaks
 - d. Provide signed and sealed survey drawings for use as base maps for proposed improvements
- 2. Prepare 90-percent complete construction drawings for the C-15 culvert replacement for submission to Wellington for review.
- 3. Attend one review meeting with Wellington.
- 4. Incorporate comments and prepare 100-percent complete construction drawings for Wellington's use.
- 5. Prepare Engineer's Opinion of Probable Construction Cost.

Task 2 – C-11 Canal Culvert Crossing

2.1 Evaluate New C-11 Canal Crossing Culvert

- 1. Evaluate previous model results to determine maximum expected flow conditions in the channel where the proposed crossing is to be installed. Perform hydraulic design of a new culvert structure sized to pass existing maximum flow event with limited head loss. Perform one (1) run of the overall routing model with the proposed revisions to check for changes in the overall system radiating out from the proposed new structure.

2.2 Design New C-11 Canal Crossing Culvert

- 1. Provide the Services of a Professional Surveyor to:
 - a. Locate visible fixed improvements within proposed project limits
 - b. Locate above ground existing utilities
 - c. Obtain elevations at 50 foot intervals and grade breaks
 - d. Obtain two cross-sections within the existing canal right-of-way
 - e. Provide signed and sealed drawings
- 2. Prepare 90-percent complete construction drawings for the C-11 culvert installation for submission to Wellington for review.
- 3. Attend one review meeting with Wellington.
- 4. Incorporate comments and prepare 100-percent complete construction drawings for Wellington's use.
- 5. Prepare Engineer's Opinion of Probable Construction Costs

Task 3 – 2,800 of New Bridal Trail

Topographic Survey/Design 2,850 Linear Feet of New Bridle Trail

- 1. Provide the Services of a Professional Surveyor to:
 - a. Locate visible fixed improvements within proposed project limits
 - b. Locate above ground existing utilities
 - c. Obtain 12 cross-sections from edge of water to 10 feet onto the adjacent property
 - d. Provide signed and sealed drawings

2. Prepare 90% complete construction drawings for new Bridle Trail including design cross sections at 300 foot intervals.
 - a. Bridle Trail will slope away from existing canal whenever feasible.
 - b. Design locations for warning flashers when appropriate.
 - c. Wellington's standard detail will be used for solar powered warning flasher installations.
 - d. MOT plan will be prepared, as necessary.
3. Attend one review meeting with Wellington.
4. Incorporate comments and prepare 100-percent complete construction drawings for Wellington's use.
5. Prepare Engineer's Opinion of Probable Construction Costs

Task 4 – Wellington Building Permit Assistance

1. Meet with Wellington Building Department during design to gain input on their construction permitting requirements.
2. Provide the Building Department with electronic file copies of final construction drawings for Contractor permitting purposes.

Task 5 – Bid Phase Assistance

1. Assist Wellington during bidding process including responding to any questions during the bid phase, preparing draft responses to questions for Wellington's use in preparing the formal response and providing a letter of recommendation.

Task 9 – Construction Phase Assistance

1. Attend the pre-construction meeting to be organized by Wellington to address any questions from the selected Contractor and review project schedule and requirements.
2. Review Contractor submittals for conformance with project requirements.
3. Conduct up to four (4) periodic site visits during construction to observe construction progress.
4. Respond to any RFI's during construction.
5. Assist Wellington staff with project closeout by reviewing Contractor prepared record drawings and testing results for completeness.

C. Additional Services:

1. Any services not included in the Scope of Services will be considered Additional Services.
2. Additional Services can be provided upon Mock•Roos receiving a revised scope of services and approved purchase order from Wellington.

D. Fees and Rates:

1. The total fee to provide the Scope of Services on a lump sum basis for \$49,552.
2. Mock•Roos can provide Additional Services at the Mock•Roos hourly rates in effect at that time, plus any reimbursable expenses, or for an agreed upon lump sum fee.

E. Conditions:

1. In case of discrepancies, the terms of this proposal supersede those of previous agreements.
2. All permitting fees to be paid directly by Wellington.

F. Acceptance and Authorization to Proceed:

1. This proposal is acceptable and Mock•Roos has authorization to proceed with the Scope of Services.

MOCK•ROOS

Signed: 62/9/17

Name: Garry G. Gruber, P.E.

Title: Senior Vice President

Date: February 9, 2017

WELLINGTON

Signed: _____

Name: _____

Title: _____

Date: _____

Village of Wellington
C-11 and C-15 Canal Culvert Crossings and Bridal Trail Improvements
Design, Bidding and Construction Phase Services

Task Description	Labor Classification				Subtotal	Subconsultant	Total	Task Total
	Senior Project Manager	Senior Engineer	Engineer	Administrative Assistant				
Labor Hourly Billing Rate	\$160.00	\$155.00	\$93.00	\$50.00				
Total Hours	16	106	154	23				
Task 1 C-15 Canal Crossing Culvert								
1.1 Evaluate Existing C-15 Canal Culvert Crossing								
1 Site Visit/Meeting		4			\$ 620		\$ 620	
2 Evaluate Previous Model Results	1	8		1	\$ 1,450		\$ 1,450	
								\$ 2,070
1.2 Topographic Survey/Design Replacement Culvert								
1 Topographic Survey/Basemap		1	4	1	\$ 577	\$ 5,225	\$ 5,802	
2 Prepare Construction Drawings (90%)	1	12	24		\$ 4,252		\$ 4,252	
3 Attend Client Meeting		2			\$ 310		\$ 310	
4 Prepare Construction Drawings (100%)	1	2	8		\$ 1,214		\$ 1,214	
5 EOPCC		1	4	1	\$ 577		\$ 577	
Reimbursibles							\$ 50	
							\$12,205	
Task 2 C-11 Canal Crossing Culvert								
2.1 Evaluate New C-11 Canal Crossing Culvert								
1 Evaluate Previous Model Results/Perform Hydraulic Design	1	8		1	\$ 1,450		\$ 1,450	
								\$ 1,450
2.2 Topographic Survey/Design New Culvert								
1 Topographic Survey/Basemap		1	4	1	\$ 577	\$ 4,655	\$ 5,232	
2 Prepare Construction Drawings (90%)	1	8	16		\$ 2,888		\$ 2,888	
3 Attend Client Meeting		2			\$ 310		\$ 310	
4 Prepare Construction Drawings (100%)	1	2	4		\$ 842		\$ 842	
5 EOPCC		2	4	2	\$ 782		\$ 782	
Reimbursibles							\$ 50	

Village of Wellington
C-11 and C-15 Canal Culvert Crossings and Bridal Trail Improvements
Design, Bidding and Construction Phase Services

Task Description	Labor Classification				Subtotal	Subconsultant	Total	Task Total
	Senior Project Manager	Senior Engineer	Engineer	Administrative Assistant				
Labor Hourly Billing Rate	\$160.00	\$155.00	\$93.00	\$50.00				
Total Hours	16	106	154	23				\$10,104
Task 3 Topographic Survey/Design 2,800 Feet of New Bridle Trail								
1 Topographic Survey/Basemap		1	4	1	\$ 577	\$ 4,960	\$ 5,537	
1 Prepare 90% Complete Construction Drawings	1	12	24	1	\$ 4,302		\$ 4,302	
2 Bridle Trail Slope (Cross-Sections)	1	4	8		\$ 1,524		\$ 1,524	
3 Design Location for Warning Flashers/Crossings		4	8	1	\$ 1,414		\$ 1,414	
								\$12,777
Task 4 Wellington Building Permit Assistance								
1 Meet with Wellington Permitting Requirements	2	4	8	1	\$ 1,734		\$ 1,734	
2 Provide Electronic Copy of Final Construction Drawings			2	2	\$ 286		\$ 286	
								\$ 2,020
Task 5 Bid Phase Services								
1 Assist Wellington during Bid Phase	1	4	4	1	\$ 1,202		\$ 1,202	
Reimbursibles							\$ 50	
								\$ 1,252
Task 6 Construction Phase Assistance								
1 Attend Pre Con Meeting	1	4		1	\$ 830		\$ 830	
2 Conduct Four (4) Periodic Site Visits	1	8	12	2	\$ 2,616		\$ 2,616	
3 Respond to RFI's During Construction	1	4	8	2	\$ 1,624		\$ 1,624	
4 Assist Wellington with Project Close Out	2	8	8	4	\$ 2,504		\$ 2,504	
Reimbursibles							\$ 100	
								\$ 7,674
Subtotal	\$ 2,560	\$ 16,430	\$ 14,322	\$ 1,150	\$ 34,462	\$ 14,840	\$ 49,552	\$ 49,552