

**AMENDMENT No. 3
TO THE PROFESSIONAL
ENGINEERING SERVICES AGREEMENT
BETWEEN
THE CITY OF MIAMI BEACH, FLORIDA
AND
RIBBECK ENGINEERING, INC.
DATED July 26, 2016**

**FOR THE PROVISION OF ADDITIONAL ENGINEERING SERVICES FOR THE INDIAN
CREEK DRIVE /STATE ROAD (SR) A1A, 26 STREET TO 41 STREET- FLOOD
MITIGATION PROJECT IN THE AMOUNT OF \$339,196.51.**

This Amendment No. 3 to the Agreement is made and entered this ____ day of _____, 2018, by and between the CITY OF MIAMI BEACH, a municipal corporation existing under the laws of the State of Florida (the "City"), having its principal offices at 1700 Convention Center Drive, Miami Beach, Florida 33139, and Ribbeck Engineering Inc., a Florida Corporation having its principal office at 14335 SW 120 St. #205, Miami, Florida 33146 (the "Consultant").

RECITALS

WHEREAS, On March 9, 2016, the Mayor and City Commission adopted Resolution 2016-29332 approving a Department Funded Agreement (DFA) between the City and the Florida Department of Transportation (FDOT) for the cost sharing of a construction project on Indian Creek Drive from 26th to 41st Streets; and

WHEREAS, On June 8, 2016, the Mayor and City Commission adopted Resolution 2016-29456, approving the award of a professional services agreement to Ribbeck Engineering, Inc., in the total amount of \$407,851, to develop the Design Criteria Package (DCP) and conceptual plans for approximately 0.85 miles of Indian Creek Drive; and

WHEREAS, the DFA stipulates that the project shall be implemented in two (2) construction phases; and

WHEREAS, the "Interim" Phase construction for the underground drainage component, including drainage pipes ranging in size up to 72 inches in diameter, drainage structures, 24 inch diameter storm drainage pipes along the side streets, the pump station structure and roadway drainage system is now substantially completed; and

WHEREAS, the "Ultimate" phase includes the roadway reconstruction component, raising the roadway and harmonization to the final grade; and

WHEREAS, on April 26, 2017, the Mayor and City Commission adopted Resolution 2017-29839, authorizing the negotiation of Amendment No. 1 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$863,171.92 plus a \$86,317.19 contingency, for a total amount of \$949,489.11, to prepare a set of "Interim" construction plans from 25th to 26th Streets, and 26th to 41st Streets, including side streets along the entire project limits; and

WHEREAS, on October 18, 2017, the Mayor and City Commission adopted Resolution 2017-30070, authorizing the negotiation of Amendment No. 2 to the Professional Services Agreement with Ribbeck Engineering, Inc., in the amount of \$1,056,347.77, plus a \$158,452.17 owner's contingency of fifteen percent (15%), for a total amount of \$1,214,799.94, to complete the "Ultimate" Phase final signed and sealed construction plans for the entire project limits; and

WHEREAS, the scope of work included detailed roadway, traffic control plans and analysis, seawall plans, drainage analysis and plans, signage, signalization, pavement markings, lighting and related improvements; and

WHEREAS, the scope also included a Design Variations memorandum and reports including crash data analysis and cost benefit ratios required by FDOT and electrical and mechanical design of the pump station to reduce the time and cost of temporary pumps; and

WHEREAS, the City and FDOT staff determined that rather than proceeding with a design/build construction methodology, the Ultimate Phase work would be better accomplished by first completing the design plans for the Project, and then selecting a contractor, via an Invitation to Bid process, to perform the construction work; and

WHEREAS, on September 21, 2018, Invitation to Bid (ITB) 2018-054ZD was issued for the Indian Creek Improvements from 25th to 41st Streets, with a Bid Opening date scheduled for November 12, 2018; and

WHEREAS, due to the change in the project procurement method, increase in the scope of work and construction price escalation, FDOT is increasing their cost sharing participation for this project; and

WHEREAS, a revised Department Funded Agreement (DFA) with FDOT is being presented to the City Commission, for approval on October 17, 2018; and

WHEREAS, at the request of City Administration, Ribbeck Engineering Inc. submitted a negotiated cost proposal (Attachment A) in the amount of 308,360.46, plus a ten percent (10%) Owner's Contingency of \$30,836.05, for a total of \$339,196.51, for performing subsurface exploration to further identify potential utilities conflicts, modifications to roadway and drainage design resulting from owners requests to modify harmonization plans for the adjacent properties, parking lanes modification to meet FDOT criteria, additional utility coordination, special handrail design to meet new city criteria and additional coordination efforts; and

WHEREAS, this cost proposal was submitted to the Public Works Department and Office of Capital Improvements Projects for review and staff found the proposal was fair and reasonable.

NOW, THEREFORE, the parties hereto, and in consideration of the mutual promises, covenants, agreements, terms, and conditions herein contained, and other good and valuable consideration, the respect and adequacy are hereby acknowledged, do agree as follows:

1. ABOVE RECITALS

The above recitals are true and correct and are incorporated as a part of this Amendment No. 3.

2. MODIFICATIONS

- (a) The Agreement is amended, as provided herein and in Schedule "A" attached hereto.
- (b) In consideration for the services to be performed under this Amendment No. 3, City shall pay Consultant the not-to-exceed amount of \$339,196.51, as provided in schedule "A", attached hereto.

3. OTHER PROVISIONS.

All other provisions of the Agreement, as amended, are unchanged and shall remain in full force and effect.

4. RATIFICATION.

The City and Consultant ratify the terms of the Agreement, as amended by this Amendment No. 3.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment No. 3 to be executed in their names by their duly authorized officials as of the date first set forth above.

ATTEST:

CITY OF MIAMI BEACH, FLORIDA

Rafael E. Granado,
City Clerk

Dan Gelber
Mayor

ATTEST:

CONSULTANT:
RIBBECK ENGINEERING, INC.

Secretary

Principal

Print Name

Print Name



September 25, 2018

Ms. Mina Samadi, P.E.
Senior Capital Project Coordinator
City of Miami Beach
Office of Capital Improvement Projects
1700 Convention Center Drive
Miami Beach, FL 33139

RE: SR A1A/Indian Creek Drive from 25th Street to 41st Street
Flood Mitigation Project –
Intent to Bid (ITB) Roadway Reconstruction Design & Plans Preparation
Scope of Work & Fee Estimate Supplement #3

Dear Ms. Samadi:

For your review please find enclosed the scope of work and fee estimate for the following tasks:

- Task #20 Test Holes
- Task #21 Harmonization
- Task #22 Parking Lane Modification
- Task #23 Utility Coordination
- Task #24 Handrail Design
- Task #25 Meetings

The fee presented also includes all sub-consultant work such as miscellaneous structural, lighting and electrical design.

Respectfully,

Carlos Ribbeck, P.E.
President

REVISED 6/22/18

Indian Creek Po # 20170878-00										
	Task / Consultant	Ribbeck	Bolton & Perez	Trace	Atkins	Procon	Universal	ASA Consultants	MG Vera	Total
Original	Task #1 DCP Package	\$ 325,596.80	\$ 82,254.20							\$ 407,851.00
Addendum 1	Task #2 Supplemental to Task #1 DCP Package	\$ 64,544.75						Total approved fee from Original Contract		\$ 407,851.00
	Task #3 25th to 26th Interim Plans	\$ 116,289.64								\$ 64,544.75
	Task #4 26th to 41st Interim Plans	\$ 454,070.81								\$ 116,289.64
	Task #5 Bolton Structural		\$ 138,843.32							\$ 454,070.81
			\$ (82,254.20)							\$ 56,589.12
			\$ 56,589.12							\$ 56,589.12
	Task #6 Trace Electrical			\$ 118,307.93						\$ 118,307.93
	Task #7 Supplemental to Task #3 25th to 26th Interim Plans	\$ 53,369.69								\$ 53,369.69
	Task #8 Supplemental #2 to Task #1 DCP Package	\$ 68,852.46								\$ 68,852.46
and Post Design Services Fee	Task #9 Atkins Miscellaneous Survey Task				\$ 17,464.71					\$ 17,464.71
									Total	\$ 949,489.11
	Task #10 - Prepare set of plans and design documents for Intent to Bid (ITB)	\$ 581,111.85								\$ 581,111.85
	Task #11 - Roadway, Drainage, SPM and Signalization Post Design Services	\$ 125,301.66								\$ 125,301.66
	Task #12 - Supplemental #3 to Task #1 - Additional meetings and Management coordination from 6/28/2017 through 03/30/2018	\$ 136,937.90								\$ 136,937.90
	Task #13 - Electrical Design and Plans for Pump Station					\$ 52,250.00				\$ 52,250.00
	Task #14 - Supplemental to Task #5 - Lighting Post Design Services			\$ 14,427.79						\$ 14,427.79
	Task #15 - Structural Supplemental for Additional work (\$69,318.00 for Additional ITB structural work) + (\$19,014.71 for Structural Post Design Services) = \$88,332.71		\$ 88,332.71							\$ 88,332.71
	Task #16 - Roadway, Drainage, SPM and Signalization Supplemental #1 (Side streets extension) (Revised as per 6/21/2018 meeting w/ COMB)	\$ 132,210.68								\$ 132,210.68
	Task #17 - Additional Survey for side street extension				\$ 28,240.00					\$ 28,240.00
Addendum 2 for Intent To Bid (ITB), Coordination/Meetings and Post Design Services Fee	Task #18 - Geotechnical for signals at 29th Street and 39th Street						\$ 3,951.00			\$ 3,951.00
	Task #19 - Structural design of slabs for pump station equipment							\$ 4,654.57		\$ 4,654.57
	Contingency									\$ 47,381.78
	Task #20 - Test Holes							Total (without contingency)		\$ 1,167,418.16
	Task #21 - Roadway and Drainage Supplemental #3 - Modifications to roadway, drainage and harmonization due to property owners request after 100% ITB submittal.	\$ 67,514.42						\$ 106,200.00		\$ 106,200.00
	Task #22 - Roadway, Drainage and SPM Supplemental #3 - Parking lane modifications.	\$ 42,266.20								\$ 42,266.20
	Task #23 - Utility Coordination	\$ 2,666.64								\$ 2,666.64
	Task #24 - Roadway and Structures Supplemental - Special Handrail Design as per COMB resolution	\$ 24,381.55						\$ 26,386.62		\$ 50,768.17
	Task #25 -Meetings	\$ 38,945.03								\$ 38,945.03
	Contingency									\$ 30,836.05
Addendum 3 for Additional Work post 100% ITB								Total for Addendum #3 + Contingency		\$ 339,196.51
								Total Design Fee including Original Contract + Addendum #1 + Addendum #2 for full reconstruction and harmonization (ITB) + Addendum #3		\$ 2,863,954.78

Task #20 – Test Holes - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental 3

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the request for subsurface Utility Engineering Services through the procurement of a sub-consultant. This task includes a bank of 240 test holes and 6 scan areas.

Deliverables:

- o Electronic Cad file in Microstation or AutoCAD Format depicting the designated utilities (horizontal) and the utility locates (test holes); drawings to follow FDOT CAD format (line styles).
- o Excel spread sheet indicating horizontal coordinates, depth of cover, elevation, size, type material and general direction of each utility found .



13960 SW 47th St, Miami, FL 33175
t: 305.221.6210 | f: 305.221.1295
www.mgvera.com

May 30, 2018

Carlos Ribbeck, P.E.
Ribbeck Engineering Inc
14335 SW 120 St. #205
Miami, FL 33186
P. 305-383-5909

Project: A1A/Indian Creek - Subsurface Utility Engineering Services

Dear Mr. Ribbeck,

MGV appreciates the opportunity to provide Subsurface Utility Engineering Services (SUE) following ASCE 38-02 "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data". Below is our scope of services for utility designating and locating (test holes).

Project Limits: Along SR A1A/Indian Creek from 25th Street to 41st Street

Subsurface Utility Designations - Quality Level B

MGV will designate (horizontally mark on the surface) known existing toneable and non-toneable subsurface utilities found within 6 "Scan" areas depicted on the plans provided by the client utilizing electromagnetic geophysical prospecting equipment, including ground penetrating radar (GPR). This scope of service does not include irrigation lines.

Subsurface Utility Locates (test holes) – Quality Level A – Bank of 240 Test Holes

MGV will perform up to 240 utility locates (test holes) on potential utility conflicts as identified on the plans provided by the client. Each locate (test hole) will include horizontal coordinates, depth of cover, elevation, size, type, material and general direction of each found utility.

MGV will notify Sunshine One-Call 48 hours in advance of performing the utility locates. A non-destructive vacuum excavation system will be utilized to expose the utilities. Test holes performed will be of minimum size (usually 1' by 1'). Backfill of test holes will be performed utilizing material removed. Test holes performed in the street will be patched utilizing cold patch. Basic maintenance of traffic (signs, cones) will be included.

Survey Support

Utilizing existing project survey, MGV will map the utility designation marks and utility test holes, process and place in appropriate Cad format.

Deliverables

- CD containing the following:
 - o Electronic Cad file in Microstation or AutoCAD Format depicting the designated utilities (horizontal) and the utility locates (test holes); drawings to follow FDOT CAD format (line styles).
 - o Excel spread sheet indicating horizontal coordinates, depth of cover, elevation, size, type material and general direction of each utility found.

Subsurface Utility Designating and Locating Conditions and Understandings

The utility designates and locates are for design purposes only. The Florida One Call must be notified forty-eight (48) hours in advance of any excavation.

Accuracy of Geophysical Mapping techniques, although highly reliable, are subject to outside interference. A few examples are: Soil condition, material conductivity, depth of utility, and various other geological anomalies that may distort or hinder electromagnetic and GPR frequencies.

MGV will make every effort possible utilizing state of the art technology to designate and locate underground utilities; however there are no guarantees that all underground utilities or structures will be detected.

MGV will not access confined spaces and is not included in this fee estimate. If accessing confined spaces are required, MGV will notify the client to discuss options. Additional fees may be applicable.

Additional Clarifications and Understandings

If cap rock or an obstruction is encountered during the test hole phase and further vacuum excavation cannot be performed without the potential for utility damage, MVG will consider the test hole completed, measure the depth to the top of the cap rock or obstruction reached, survey the location and consider the test hole completed and invoice accordingly.

The below fee includes only backfill of test holes utilizing material removed in natural ground or cold patch within asphalt pavement or concrete in sidewalks for the approximate 1' x 1' test hole. If additional restoration is required, MG Vera will provide an additional proposal to cover the additional expense.

Basic maintenance of traffic (signs, cones) is included, but if advanced MOT is required, MG V will provide a cost estimate to cover these additional expenses.

This estimate does not include permit fees or applications.

This estimate does not include fees for signed and sealed MOT plans.

Schedule

Upon Receiving NTP, MG V can begin immediately and estimates 2 to 4 weeks for delivery.

Fee

Utility Designation:

Includes survey support: \$3,000.00

Utility Locates (test holes): Bank of 240

Per test hole rate (minimum 4 test holes): \$430.00/per test hole

Includes survey support

240 Test Holes: \$103,200.00

Total Budget (Designates/Locates) \$106,200.00

We look forward to providing our services and please contact me if you have any questions or require additional information.

Sincerely,
Manuel G. Vera & Associates, Inc.

A handwritten signature in blue ink, appearing to read 'Mark R. Sowers', with a long horizontal flourish extending to the right.

Mark R. Sowers, PSM

Task #21 – Harmonization - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the roadway and drainage analyses to eliminate the gravity wall by placing embankment and additional drainage structures at the bottom of the lopes. In addition, where the gravity wall can be eliminated the plan sheets, harmonization details, quantities and typical sections will be revised. This request was made after the plans were complete by the private property owners and as agreed upon by the City of Miami Beach.

Roadway Analysis and Plans:

- o Analyze the removal of gravity walls and the construction of fill material onto private properties at 14 properties (28 harmonization details).
- o Modify typical sections, typical section package, cross sections, plan views and tables.
- o Additional effort to compute quantities due to gravity wall, handrail and concrete ditch removal; addition of fill, top soil and sod.
- o Field reviews (4) for harmonization of 14 properties.
- o Meet with private property owners to discuss final design (14 Meetings).

Drainage Analysis and Plans:

- o Drainage analysis for 14 properties (28 harmonization details) due to the elimination of gravity walls.
- o Revise quantities of yard drains, pipes, and inlets.
- o Analyze impact of added storm sewer from four adjacent properties.

Deliverables:

One submittal including the following will be delivered:

- o Revised Typical Section Package (submitted to FDOT for approval)
- o Revised Typical Sections
- o Revised Roadway Plans and Drainage Plans
- o Revised Cross Sections
- o Revised Drainage Structure Sheets
- o Revised Harmonization Sheets (Special Details)
- o Revised Summary of Quantities
- o Revised Summary of Pay Items

Financial Project Number:

439228-2-58-01

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - GRAND TOTAL

Project Name: Indian Creek Drive from 26 Street to 41 Street | TB - Sup

FAP Number:

0

Date:

9/24/2018

Name of Consultant: Ribbeck Engineering, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION													TOTAL STAFF HOURS		ON CADD
		Grand Total	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer		Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	RANGE	
								Hours	Hours								
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4. Roadway Analysis	257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Roadway Plans	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6a. Drainage Analysis	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	465	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Field Survey Estimate:

0

4-person crew days

(Prime Consultant)

0

0

- Notes:
1. This worksheet provides the distribution of the grand total staff hours for a project.
 2. Percentages for staff hour distribution by classification are entered below in rows 65 to 99 of this sheet.
 3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
 4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.
 5. This spreadsheet to be provided in Technical Proposals for Districts that require a breakdown of hours by classification.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - GRAND TOTAL

Financial Project Number: 439228-2-58-01

Project Name Indian Creek Drive from 26 Street to 41 St

FAP Number: 0

Date: 9/24/2018

Name of Consultant: Ribbeck Engineering, Inc.

Staff Hour Distribution Percentages - Grand Total																
	Hours from "Summary Sheet Grand Total"	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total		
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
4. Roadway Analysis	257	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
5. Roadway Plans	124	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
6a. Drainage Analysis	84	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	0.00%

35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

Note: This spreadsheet to be used in Technical Proposal for Districts requiring the Grand Total hours be provided along with percentage distribution by classification.

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Indian Creek Drive from 28 Street to 41 Street 1TB - Supp. 2

County: enter name of county

FPN: 439228-2-58-01

FAP No.: 10/1900

Consultant Name: Ribbeck Engineering, Inc.

Consultant No.: enter consultants proj. number

Date: 9/24/2018

Estimator: insert name

Staff Classification	Hours From Summary - Firm	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	\$25.00	\$0.00	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	257	51	51	51	27	51	26	0	0	0	0	0	0	257	\$12,980	\$50.51
5. Roadway Plans	124	0	0	25	0	50	49	0	0	0	0	0	0	124	\$4,175	\$33.67
6a. Drainage Analysis	84	17	0	0	67	0	0	0	0	0	0	0	0	84	\$5,125	\$61.01
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Divgs. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	465	68	51	76	94	101	75	0	0	0	0	0	0	465	\$22,280.00	\$47.91
Total Staff Cost	\$4,420.00	\$2,958.00	\$4,256.00	\$5,640.00	\$3,131.00	\$1,875.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22,280.00	\$47.91

Check =															
SALARY RELATED COSTS:															
OVERHEAD:															\$22,280.00
OPERATING MARGIN:															\$36,485.73
ECCM (Facilities Capital Cost Money):															\$8,577.80
EXPENSES:															\$170.89
Survey (Field - f by Prime)															\$0.00
SUBTOTAL ESTIMATED FEE:															\$0.00
Subconsultant: Enter Name Sub 1															\$0.00
Subconsultant: Sub 2															\$0.00
Subconsultant: Sub 3															\$0.00
Subconsultant: Sub 4															\$0.00
Subconsultant: Sub 5															\$0.00
Subconsultant: Sub 6															\$0.00
Subconsultant: Sub 7															\$0.00
Subconsultant: Sub 8															\$0.00
Subconsultant: Sub 9															\$0.00
Subconsultant: Sub 10															\$0.00
Subconsultant: Sub 11															\$0.00
Subconsultant: Sub 12															\$0.00
SUBTOTAL ESTIMATED FEE:															\$0.00
Geotechnical Field and Lab Testing															\$0.00
SUBTOTAL ESTIMATED FEE:															\$0.00
Optional Services															\$0.00
GRAND TOTAL ESTIMATED FEE:															\$0.00

Notes:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.

2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

Project Activity 4: Roadway Analysis

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 2
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	4	4	Submittal and follow up with FDOT - See 5.3.1
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	8	8	Revise Cross Sections to reflect changes to Gravity Wall vs. Slope
4.10	Traffic Control Analysis	LS	1	0	0	
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Selective Clearing and Grubbing	LS	1	0	0	
4.13	Tree Disposition Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	
4.15	Design Report	LS	1	0	0	
4.16	Quantities	LS	1	16	16	Earthwork, Sod, Top Soil, Gravity Wall, Ditches, Handrail, Yard Drains, Pipes, Trench Drains
4.17	Cost Estimate	LS	1	8	8	Earthwork, Sod, Top Soil, Gravity Wall, Ditches, Handrail, Yard Drains, Pipes, Trench Drains
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	28	5	140	Harmonization Efforts for analysis and grading of 28 harmonization details (14 Properties) (mid range)
Roadway Analysis Technical Subtotal					176	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	4	4	16	4 field reviews for additional survey/information
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	0	0	42	See Below (Secondary Meetings with Owners)
4.23	Quality Assurance/Quality Control	LS	%	5%	9	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	9	
Roadway Analysis Nontechnical Subtotal						76
4.26	Coordination	LS	%	2%	5	
4. Roadway Analysis Total						257

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	14	3	42	Secondary Meetings with Owners		0
Subtotal Technical Meetings				42	Subtotal Project Manager Meetings		0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				42	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 4,17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 2
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	4	2	8	Revise Typical reflecting Gravity Wall vs. Slope
5.3.2	Typical Section Details		EA	0	0	0	
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	
5.5	Summary of Quantities Sheets		Sheet	4	1	4	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet		Sheet	8	3	24	8 Plans Sheets - Revise Gravity Wall, Handrail, Ditch Labels and limits. Revise Tables.
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	28	2	56	Modify 28 Harmonization Details Sheets (14 Properties)
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	80	0.25	20	Low Range
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.22	Utility Adjustment Sheets		Sheet	0	0	0	
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.25	Project Network Control Sheet(s)		Sheet	0	0	0	
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						112	
5.28	Quality Assurance/Quality Control		LS	%	5%	6	
5.29	Supervision		LS	%	5%	6	
5. Roadway Plans Total						124	

Project Activity 6a: Drainage Analysis

Estimator: Indian Creek Drive from 26 Street to 41 Street | TB- Supp. 2
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	4	4	16	
6a.2	Base Clearance Calculations	Per Location	0	0	0	Inclusion of Property Drainage into Drainage System.
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	
6a.4	Design of Cross Drains	EA	0	0	0	
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	0	0	0	
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	0	0	
6a.14	Bridge Hydraulic Report	EA	0	0	0	

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	0	0	
6a.16	Cost Estimate	LS	1	0	0	
6a.17	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
6a.18	Hydroplaning Analysis	LS	1	0	0	
6a.19	Existing Permit Analysis	LS	1	0	0	
6a.20	Other Drainage Analysis	LS	32	1.8125	58	Harmonization Analysis of 28 harmonization details (28 x 1.5 hrs) + Analysis of inclusion of property drainage into existing drainage system (4 properties x 4 hrs/ea) = 42 + 16 = 58 hrs
Drainage Analysis Technical Subtotal					74	
6a.21	Field Reviews	LS	1	0	0	
6a.22	Technical Meetings	LS	1	0	0	Meetings are listed below
6a.23	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.24	Quality Assurance/Quality Control	LS	%	5%	4	
6a.25	Independent Peer Review	LS	%	0%	0	
6a.26	Supervision	LS	%	5%	4	
Drainage Analysis Nontechnical Subtotal					8	
6a.27	Coordination	LS	%	2%	2	
6a. Drainage Analysis Total					84	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings							0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					Total Project Manager Meetings (carries to Tab 3)		0

Carries to 6.19

Carries to Tab 3

Task #22 – Parking Lane Modification - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental 3

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the analysis of Intersection Sight Distance, crashes and parking lanes (bays). The City of Miami Beach is requesting the removal of parking lanes (bays) to improve the Intersection Sight Distances where possible. This request was made after the plans were completed and as directed by the City of Miami Beach.

Roadway Parking Analysis and Plans:

- o Analyze the locations with possible conflicts with Sight Distance and have historical crashes.
- o Meet with FDOT and discuss the approach to each intersection (2 meetings). Meet with City of Miami Beach and discuss the agreement with FDOT (2 Meetings).
- o Revise the typical sections, typical section package, plan sheets, harmonization sheets, and cross sections.
- o Revise quantity shapes and update summary of quantities.

Drainage Parking Analysis and Plans:

- o Analyze the locations with where parking lanes are eliminated.
- o Revise the design file shifting the drainage inlets to the new gutter line.
- o Revise the structure sheets.
- o Revise the quantities and summary of drainage structures.

Deliverables:

One submittal including the following will be delivered:

- o Revised Typical Section Package (submitted to FDOT for approval)
- o Revised Typical Sections
- o Revised Roadway Plans and Drainage Plans
- o Revised Cross Sections
- o Revised Drainage Structure Sheets
- o Revised Harmonization Sheets (Special Details)
- o Revised Summary of Quantities
- o Revised Summary of Pay Items
- o Revised Signing and Pavement Marking sheets
- o Revised Signing and Pavement Marking Summary of Quantities
- o Revised Signing and Pavement Marking Summary of Pay Items

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

439228-2-58-01

Project Name: Indian Creek Drive from 26 Street to 41 S

FAP Number:

0

Date: 9/25/2018

Name of Consultant: Ribbeck Engineering, Inc.

WORK ACTIVITY	Hours from "Summary sheet"	EMPLOYEE CLASSIFICATION														TOTAL STAFF HOURS		ON CADD
		Project Manager Hours	Sr Project Engineer Hours	Project Engineer Hours	Sr Engineer Hours	Engineer Intern Hours	Sr Designer Hours	Staff Classi- fication 7 Hours	Staff Classi- fication 8 Hours	Staff Classi- fication 9 Hours	Staff Classi- fication 10 Hours	Staff Classi- fication 11 Hours	Staff Classi- fication 12 Hours	RANGE				
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
4. Roadway Analysis	129	13	26	32	14	32	13	0	0	0	0	0	0	130	143			
5. Roadway Plans	70	0	0	14	0	28	27	0	0	0	0	0	0	69	76			
6a. Drainage Analysis	22	2	0	0	19	1	0	0	0	0	0	0	0	22	24			
6b. Drainage Plans	46	5	0	9	5	23	5	0	0	0	0	0	0	47	52			
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19. Signing & Pavement Marking Analysis	46	2	0	9	5	18	12	0	0	0	0	0	0	46	51			
20. Signing & Pavement Marking Plans	7	0	0	0	1	4	3	0	0	0	0	0	0	8	9			
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TOTALS	320	22	26	64	44	106	60	0	0	0	0	0	0	322	355			

Field Survey Estimate:	FIRM TOTAL	322	355
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0	4-person crew days
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Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:	439228-2-58-01	Project Name: Indian Creek Drive from 26 Street to 41 S
FAP Number:	0	Name of Consultant: Ribbeck Engineering, Inc.
	9/25/2018	Date:

Staff Hour Distribution Percentages - Firm Total																	
	Hours from Summary Worksheet Firm Total	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total			
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
4. Roadway Analysis	129	10.0%	20.0%	25.0%	10.0%	25.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
5. Roadway Plans	70	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
6a. Drainage Analysis	22	10.0%	0.0%	0.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
6b. Drainage Plans	46	10.0%	0.0%	20.0%	10.0%	50.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
9. Structures - Misc. Tasks, Dwgs. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
19. Signing & Pavement Marking Analysis	46	5.0%	0.0%	20.0%	10.0%	40.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
20. Signing & Pavement Marking Plans	7	0.0%	0.0%	0.0%	0.0%	50.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%			
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%			

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Indian Creek Drive from 28 Street to 41 Street 1TB - Supp. 3 - Parking
County: enter name of county
FPN: 439228-2-58-01
FAP No.: 10/1900

Consultant Name: Ribbeck Engineering, Inc.
Consultant No.: enter consultants proj. number
Date: 9/25/2018

Estimator: insert name

Staff Classification	Hours From "SH" Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	\$25.00	\$0.00	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	129	13	26	32	14	32	13	0	0	0	0	0	0	130	\$6,302	\$48.48
5. Roadway Plans	70	0	0	14	0	28	27	0	0	0	0	0	0	69	\$2,327	\$33.72
6a. Drainage Analysis	22	2	0	0	19	1	0	0	0	0	0	0	0	22	\$1,301	\$59.14
6b. Drainage Plans	46	5	0	9	5	23	5	0	0	0	0	0	0	47	\$1,967	\$41.85
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Divgs. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	46	2	0	9	5	18	12	0	0	0	0	0	0	46	\$1,792	\$38.96
20. Signing & Pavement Marking Plans	7	0	0	0	1	4	3	0	0	0	0	0	0	8	\$2,959	\$32.38
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	320	22	26	64	44	106	60	0	0	0	0	0	0	322	\$13,948.00	\$43.32
Total Staff Cost		\$1,430.00	\$1,508.00	\$3,584.00	\$2,640.00	\$3,286.00	\$1,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			

Check =

SALARY RELATED COSTS:		
OVERHEAD:		\$13,948.00
OPERATING MARGIN:	163.76%	\$22,841.24
ECCM (Facilities Capital Cost Money):	38.50%	\$5,360.98
EXPENSES:	0.00%	\$106.98
Survey (Field - f by Prime)	0	4-person crew
SUBTOTAL ESTIMATED FEE:		\$42,266.20
Subconsultant: Enter Name Sub 1		\$0.00
Subconsultant: Sub 2		\$0.00
Subconsultant: Sub 3		\$0.00
Subconsultant: Sub 4		\$0.00
Subconsultant: Sub 5		\$0.00
Subconsultant: Sub 6		\$0.00
Subconsultant: Sub 7		\$0.00
Subconsultant: Sub 8		\$0.00
Subconsultant: Sub 9		\$0.00
Subconsultant: Sub 10		\$0.00
Subconsultant: Sub 11		\$0.00
Subconsultant: Sub 12		\$0.00
SUBTOTAL ESTIMATED FEE:		\$42,266.20
Geotechnical Field and Lab Testing		\$0.00
SUBTOTAL ESTIMATED FEE:		\$42,266.20
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$42,266.20

Survey Field Days by Subconsultant
4 - Person Crew:

Notes:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

Project Activity 4: Roadway Analysis

Estimator:

Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	16	16	Submittal and follow up with FDOT - See 5.3.1
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	54	54	Modification to horizontal geometry, curbs, sidewalks, asphalt due to parking lane reduction. Revise tables and plans labeling.
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	12	12	Revise Cross Sections to reflect changes to Parking Lane
4.10	Traffic Control Analysis	LS	1	0	0	
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Selective Clearing and Grubbing	LS	1	0	0	
4.13	Tree Disposition Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	
4.15	Design Report	LS	1	0	0	
4.16	Quantities	LS	1	24	24	SP, FC, Base, Stabilization, Earthwork, Sod, Top Soil, Gravity Wall, Ditches, Handrail, Yard Drains, Pipes, Trench Drains
4.17	Cost Estimate	LS	1	8	8	SP, FC, Base, Stabilization, Earthwork, Sod, Top Soil, Gravity Wall, Ditches, Handrail, Yard Drains, Pipes, Trench Drains
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					114	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	0	0	0	
4.23	Quality Assurance/Quality Control	LS	%	5%	6	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	6	
Roadway Analysis Nontechnical Subtotal					12	
4.26	Coordination	LS	%	2%	3	
4. Roadway Analysis Total					129	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	4	3	12	(2 Meetings with FDOT and 2 Meetings with CMB) x 2 ppl x 4 hrs		0
Subtotal Technical Meetings				12	Subtotal Project Manager Meetings		0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				12	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 4,17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	3	3	9	Revise Typicals reflecting eliminated parking lane
5.3.2	Typical Section Details		EA	0	0	0	
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	
5.5	Summary of Quantities Sheets		Sheet	4	2	8	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet		Sheet	4	2	8	4 Plans Sheets - Revise limits and callouts. Revise Tables.
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	6	6	36	6 Harmonization locations impacted. Revise Harmonization due to shifting sidewalk closer towards curb.
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	12	0.25	3	Low Range
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.22	Utility Adjustment Sheets		Sheet	0	0	0	
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.25	Project Network Control Sheet(s)		Sheet	0	0	0	
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						64	
5.28	Quality Assurance/Quality Control		LS	%	5%	3	
5.29	Supervision		LS	%	5%	3	
5. Roadway Plans Total						70	

Project Activity 6a: Drainage Analysis

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	0	0	
6a.2	Base Clearance Calculations	Per Location	0	0	0	
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	
6a.4	Design of Cross Drains	EA	4	2	8	4 Cross Drains impacted by the elimination of Parking Lane
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	0	0	0	
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	
6a.9	Design of Storm Drains	EA	0	0	0	
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	0	0	
6a.14	Bridge Hydraulic Report	EA	0	0	0	

Project Activity 6a: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	0	0	
6a.16	Cost Estimate	LS	1	0	0	
6a.17	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
6a.18	Hydroplaning Analysis	LS	1	0	0	
6a.19	Existing Permit Analysis	LS	1	0	0	
6a.20	Other Drainage Analysis	LS	6	2	12	Harmonization Analysis of 6 harmonization details (6 x 2 hrs)
Drainage Analysis Technical Subtotal					20	
6a.21	Field Reviews	LS	1	0	0	
6a.22	Technical Meetings	LS	1	0	0	Meetings are listed below
6a.23	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.24	Quality Assurance/Quality Control	LS	%	5%	1	
6a.25	Independent Peer Review	LS	%	0%	0	
6a.26	Supervision	LS	%	5%	1	
Drainage Analysis Nontechnical Subtotal					2	
6a.27	Coordination	LS	%	2%	0	
6a. Drainage Analysis Total					22	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	0	0	0			0
Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings							0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					Total Project Manager Meetings (carries to Tab 3)		0

Carries to 6a.19

Carries to Tab 3

6b. Drainage Plans

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	0	0	0	
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	4	2	8	
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	4	3	12	4 Drainage Structures relocated
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	0	0	0	
6b.7	Lateral Ditch Plan/Profile		Sheet	11	2	22	11 Concrete Ditches revised (Profiles will be revised)
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	0	0	0	
6b.10	Retention Pond Cross Sections		EA	0	0	0	
6b.11	Erosion Control Plan Sheet(s)		Sheet	0	0	0	
6b.12	SWPPP Sheet(s)		Sheet	0	0	0	
Drainage Plans Technical Subtotal						42	
6b.13	Quality Assurance/Quality Control		LS	%	5%	2	
6b.14	Supervision		LS	%	5%	2	
6. Drainage Plans Total						46	

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	0	0	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Reference and Master Design File	LS	1	32	32	Modification to striping and signs due to parking lane modifications.
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities	LS	5	2	10	Update SPM quantities due to parking lane modifications - 5 sheets @ 2 hrs each = 10 hrs
19.8	Cost Estimate	LS	1	0	0	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
Signing and Pavement Marking Analysis Technical Subtotal					42	
19.11	Field Reviews	LS	1	0	0	Meetings are listed below
19.12	Technical Meetings	LS	1	0	0	
19.13	Quality Assurance/Quality Control	LS	%	5%	2	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	2	
Signing and Pavement Marking Analysis Nontechnical Subtotal					4	
19.16	Coordination	LS	%	0%	0	
19. Signing and Pavement Marking Analysis Total					46	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
	Sign Panel Design	EA	0	0	0			0
	Queue Length Analysis	EA	0	0	0			0
	Local Governments (cities, counties)	EA	0	0	0			0
	Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings					0	Subtotal Project Manager Meetings		0
	Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
	Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings					0	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Parking 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	0	0	0	0	
20.2	Summary of Pay Items Including TRNS+Port Input		LS	1	0		0	
20.3	Tabulation of Quantities		Sheet	0	0	0	0	
20.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	
20.5	Project Layout		Sheet	0	0	0	0	
20.6	Plan Sheet		Sheet	7	1	7	7	
20.7	Typical Details		EA	0	0		0	
20.8	Guide Sign Worksheet(s)		EA	0	0		0	
20.9	Traffic Monitoring Site		EA	0	0		0	
20.10	Cross Sections		EA	0	0		0	
20.11	Special Service Point Details		EA	0	0		0	
20.12	Special Details		LS	1	0		0	
20.13	Interim Standards		LS	1	0		0	
Signing and Pavement Marking Plans Technical Subtotal							7	
20.14	Quality Assurance/Quality Control		LS	%	0%		0	
20.15	Supervision		LS	%	0%		0	
20. Signing and Pavement Marking Plans Total							7	

Task #23 – Utility Coordination - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental 3

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the request of soft digs from a sub-consultant to locate the utilities where they potentially conflict with this project's scope. In addition, it includes the coordinate with the Utility Owners to relocate any utilities conflicting with this project's scope.

Analysis and Plans:

- o Analyze the locations with possible conflicts.
- o Provide the sub-consultant with plans marked up with locations of soft digs.
- o Review soft dig findings and analyze alternative design if possible.
- o Coordinate with Utility Owners the relocation of their utilities.

Deliverables:

One submittal including the following will be delivered:

- o Markup plans submitted to request soft digs

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

439228-2-58-01

Project Name: Indian Creek Drive from 26 Street to 41 S

FAP Number:

0

Date: 9/24/2018

Name of Consultant: Ribbeck Engineering, Inc.

WORK ACTIVITY	Hours from "Summary" sheet	EMPLOYEE CLASSIFICATION														TOTAL STAFF HOURS		ON CADD
		Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12					
		Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	RANGE	PERCENT			
3. Project General and Project Common Tasks		0	0	0	0	0	0	0	0	0	0	0	0	0	0			
4. Roadway Analysis		0	0	0	0	1	0	0	0	0	0	0	0	1	1			
5. Roadway Plans		0	0	0	0	0	0	-1	0	0	0	0	0	-1	-1			
6a. Drainage Analysis		0	0	0	0	0	0	0	0	0	0	0	0	0	0			
6b. Drainage Plans		0	0	0	0	0	0	0	0	0	0	0	0	0	0			
7. Utilities	18	2	4	4	2	4	2	0	0	0	0	0	0	18	20			
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
9. Structures - Misc. Tasks, Dwgs, Non-Tech.		0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TOTALS	18	4	4	4	3	4	1	0	0	0	0	0	0	18	20			

Field Survey Estimate:	18	20
0	4-person crew days	

- Notes:
- This worksheet provides the distribution of a firm's total staff hours for a project.
 - Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
 - Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
 - Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:
439228-2-58-01

FAP Number:
0

Date:
9/24/2018

Project Name:
Indian Creek Drive from 26 Street to 41 S

Name of Consultant:
Ribbeck Engineering, Inc.

Staff Hour Distribution Percentages - Firm Total														FIRM TOTAL		
	Hours from Summary Worksheet Firm Total	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total		
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
4. Roadway Analysis	0	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%	0.00%	
5. Roadway Plans	0	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%	0.00%	
6a. Drainage Analysis	0	20.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%	0.00%	
6b. Drainage Plans	0	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%	0.00%	
7. Utilities	18	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%	0.00%	
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
9. Structures - Misc. Tasks, Dwgs. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%	0.00%	

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Indian Creek Drive from 28 Street to 41 Street 1TB - Supp. 3 - Utilities
County: Miami-Dade
FPN: 439228-2-58-01
FAP No.: 10/1900

Consultant Name: Ribbeck Engineering, Inc.
Consultant No.: enter consultants proj. number
Date: 9/24/2018

Estimator: insert name

Staff Classification	Hours From Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	\$25.00	\$0.00	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	18	2	4	4	2	4	2	0	0	0	0	0	0	18	\$880	\$48.89
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dvgs. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	18	2	4	4	2	4	2	0	0	0	0	0	0	18	\$880.00	\$48.89

SALARY RELATED COSTS:		Check =	
OVERHEAD:			\$880.00
OPERATING MARGIN:	163.76%		\$1,441.09
ECCM (Facilities Capital Cost Money):	38.50%		\$338.80
EXPENSES:	0.00%		\$0.00
Survey (Field - f by Prime)	0	4 person crew	\$0.00
SUBTOTAL ESTIMATED FEE:			\$2,666.64
Subconsultant:	Enter Name Sub 1		\$0.00
Subconsultant:	Sub 2		\$0.00
Subconsultant:	Sub 3		\$0.00
Subconsultant:	Sub 4		\$0.00
Subconsultant:	Sub 5		\$0.00
Subconsultant:	Sub 6		\$0.00
Subconsultant:	Sub 7		\$0.00
Subconsultant:	Sub 8		\$0.00
Subconsultant:	Sub 9		\$0.00
Subconsultant:	Sub 10		\$0.00
Subconsultant:	Sub 11		\$0.00
Subconsultant:	Sub 12		\$0.00
SUBTOTAL ESTIMATED FEE:			\$2,666.64
Geotechnical Field and Lab Testing			\$0.00
SUBTOTAL ESTIMATED FEE:			\$2,666.64
Optional Services			\$0.00
GRAND TOTAL ESTIMATED FEE:			\$2,666.64

Survey Field Days by Subconsultant
4 - Person Crew:

Notes:

1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

Project Activity 7: Utilities

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Utilities
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	1	4	4	Meeting is listed below
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS	1	0	0	
7.3	Make Utility Contacts	LS	1	0	0	
7.4	Exception Processing	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	0	6	Meeting is listed below
7.6	Individual/Field Meetings	LS	1	0	0	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	0	0	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	0	0	
7.11	Utility Coordination/Followup	LS	1	0	0	
7.12	Utility Constructability Review	LS	1	0	0	
7.13	Additional Utility Services	LS	1	8	8	SUE Data request form, plans and charts (over 200 locates + Scan areas)
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	0	0	
7.17	Other Utilities	LS	1	0	0	

Project Activity 7: Utilities

7. Utilities Total							18
Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	1	4	4			0
Preliminary Meeting (see 7.5)	EA	0	0	0			0
Individual UAO Meetings (see 7.6)	EA	0	0	0			0
Field Meetings (see 7.6)	EA	0	0	0			0
Design Meeting (see 7.9)	EA	3	2	6	1 w/ City (Water&Sewer), 1 w/ FGT and 1 w/ FPL (Burried Elec)		0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	0	0	0			0
Total Meetings				10	Total Project Manager Meetings (carries to Tab 3)		0

Carries to Tab 3

Task #24 – Handrail - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental 3

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the structural analysis and plan details of four (4) decorative handrail designs proposed by the City of Miami Beach. The scope also includes submitting a Design Variation and revising the plans. This request was made after the plans were completed and as directed by the City of Miami Beach.

Structural Handrail Analysis and Plans:

- o Provide structural calculations and details for four (4) special handrail designs meeting FDOT and ADA criteria.
- o Attend one meeting with FDOT and one meeting with CMB.
- o Attend site visits to investigate locations and existing handrails proposed by the CMB.

Roadway Handrail Analysis and Plans:

- o Revise typical sections, typical section packages, general notes, Plans, cross sections, and harmonization details.
- o Submit Design Variation to FDOT and meet with Alex Yi.
- o Attend two meetings with FDOT, two with CMB and two with Historic Preservation Board.
- o Attend site visits to investigate locations and existing handrails proposed by the CMB.

Deliverables:

- o 4 Structural Calculations
- o 4 Structural Details
- o 2 Design Variations (Structural and Roadway)

Project Staff Hour Summary

Name of Consultant: **Ribbeck Engineering, Inc.**

Week Drive from 26 Street to 41 Street ITB - Supp. 3 - Special Handrail
439228-2-58-01

Activity No.		Activity	Ribbeck Engineering, Inc.	ASA	Sub 2	Sub 3	Sub 4	Sub 5	Sub 6	Sub 7	Sub 8	Sub 9	Sub 10	Sub 11	Sub 12	Total Hours
3		Project Common and General Tasks	0													0
4		Roadway Analysis	82													82
5		Roadway Plans	88													88
6a		Drainage Analysis	0													0
6b		Drainage Plans	0													0
7		Utilities	0													0
8		Env. Permits, Compliance & Clearances	0													0
9		Structures - Summary, Misc. Tasks, Dwgs.	0	42												42
10		BDR	0													0
11		Temporary Bridge	0													0
12		Short Span Concrete Bridge	0													0
13		Medium Span Concrete Bridge	0													0
14		Structural Steel Bridge	0													0
15		Segmental Concrete Bridge	0													0
16		Movable Span	0													0
17		Retaining Walls	0													0
18		Miscellaneous Structures	0	100												100
19		Signing & Pavement Marking Analysis	0													0
20		Signing & Pavement Marking Plans	0													0
21		Signalization Analysis	0													0
22		Signalization Plans	0													0
23		Lighting Analysis	0													0
24		Lighting Plans	0													0
25		Landscape Architecture Analysis	0													0
26		Landscape Architecture Plans	0													0
27		Survey - Field and Office Support	0													0
28		Photogrammetry	0													0
29		Mapping	0													0
30		Terrestrial Mobile LiDAR	0													0
31		Architecture Development	0													0
32		Noise Barriers Impact Design Assessment	0													0
33		ITS Analysis	0													0
34		ITS Plans	0													0
35		Geotechnical	0													0
36		3D Modeling	0													0
Project Total			170	142	0	0	0	0	0	0	0	0	0	0	0	312
27	Survey Field Crew Days		0													0

- Notes: 1. Staff hours for prime consultant come directly from each discipline's worksheet.
2. Staff hours for subconsultants are to be entered manually into columns D through O.
3. For workbooks prepared by subconsultants, their project hours will be totaled in column C.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

439228-2-58-01

Project Name: Indian Creek Drive from 26 Street to 41 S

FAP Number:

0

Date: 7/2/2018

Name of Consultant: Ribbeck Engineering, Inc.

WORK ACTIVITY	Hours from "Summary sheet" Firm Total Hours	EMPLOYEE CLASSIFICATION														TOTAL STAFF HOURS		ON CADD
		Project Manager Hours	Sr Project Engineer Hours	Project Engineer Hours	Sr Engineer Hours	Engineer Intern Hours	Sr Designer Hours	Staff Classification 7 Hours	Staff Classification 8 Hours	Staff Classification 9 Hours	Staff Classification 10 Hours	Staff Classification 11 Hours	Staff Classification 12 Hours	RANGE				
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
4. Roadway Analysis	82	16	16	16	9	17	8	0	0	0	0	0	0	82	90			
5. Roadway Plans	88	0	18	18	13	18	21	0	0	0	0	0	0	88	97			
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TOTALS	170	16	34	34	22	35	29	0	0	0	0	0	0	170	187			
Notes:																		
Field Survey Estimate: 0 4-person crew days																		
														FIRM TOTAL	170	187		

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number: 439228-2-58-01 Project Name: Indian Creek Drive from 26 Street to 41 Street

FAP Number: 0 Date: 7/2/2018 Name of Consultant: Ribbeck Engineering, Inc.

Staff Hour Distribution Percentages - Firm Total													
	Hours from Summary Sheet Firm Total	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12 Total
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	82	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	88	0.0%	20.0%	20.0%	15.0%	20.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	0	20.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	0	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs. Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Indian Creek Drive from 28 Street to 41 Street (TB - Supp. 3 - Special Handrail)

County: Miami-Dade

FPN: 439228-2-58-01

FAP No.: 10/1900

Consultant Name: Ribbeck Engineering, Inc.

Consultant No.: enter consultants proj. number

Date: 7/2/2018

Estimator: insert name

Staff Classification	Hours From Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
4. Roadway Analysis	82	16	16	16	9	17	8	0	0	0	0	0	0	82	\$4,131	\$50.38
5. Roadway Plans	88	0	18	18	13	18	21	0	0	0	0	0	0	88	\$3,915	\$44.49
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	170	16	34	34	22	35	29	0	0	0	0	0	0	170	\$8,046.00	\$47.33
Total Staff Cost		\$1,040.00	\$1,972.00	\$1,904.00	\$1,320.00	\$1,085.00	\$725.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$8,046.00	

SALARY RELATED COSTS:		Check =	
OVERHEAD:			\$8,046.00
OPERATING MARGIN:	163.76%		\$13,176.13
ECCM (Facilities Capital Cost Money):	38.50%		\$3,097.71
EXPENSES:	0.767%		\$61.71
	0.00%		\$0.00
Survey (Field - f by Prime)	0	4 person crew	\$0.00
SUBTOTAL ESTIMATED FEE:			\$24,381.55
Subconsultant:	ASA		\$0.00
Subconsultant:	Sub 2		\$0.00
Subconsultant:	Sub 3		\$0.00
Subconsultant:	Sub 4		\$0.00
Subconsultant:	Sub 5		\$0.00
Subconsultant:	Sub 6		\$0.00
Subconsultant:	Sub 7		\$0.00
Subconsultant:	Sub 8		\$0.00
Subconsultant:	Sub 9		\$0.00
Subconsultant:	Sub 10		\$0.00
Subconsultant:	Sub 11		\$0.00
Subconsultant:	Sub 12		\$0.00
SUBTOTAL ESTIMATED FEE:			\$24,381.55
Geotechnical Field and Lab. Testing			\$0.00
SUBTOTAL ESTIMATED FEE:			\$24,381.55
Optional Services			\$0.00
GRAND TOTAL ESTIMATED FEE:			\$24,381.55

Survey Field Days by Subconsultant
4 - Person Crew:

Notes:

- This sheet to be used by Prime Consultant to calculate the Grand Total fee.
- Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

Project Activity 4: Roadway Analysis

Estimator:

Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Special Handrail
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	8	8	Submittal and follow up with FDOT - See 5.3.1
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	0	0	
4.6	Access Management	LS	1	0	0	
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	
4.10	Traffic Control Analysis	LS	1	0	0	
4.11	Master TCP Design Files	LS	1	0	0	
4.12	Selective Clearing and Grubbing	LS	1	0	0	
4.13	Tree Disposition Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	32	32	Design Variation for non standard rail (Roadway component)
4.15	Design Report	LS	1	0	0	
4.16	Quantities	LS	1	0	0	
4.17	Cost Estimate	LS	1	0	0	
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					40	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	0	0	0	
4.21	Monitor Existing Structures	LS	0	0	0	
4.22	Technical Meetings	LS	0	0	36	See Below (Secondary Meetings with Owners)
4.23	Quality Assurance/Quality Control	LS	%	5%	2	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	2	
Roadway Analysis Nontechnical Subtotal						40
4.26	Coordination	LS	%	2%	2	
4. Roadway Analysis Total						82

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	0	0	0			0
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
30/60/90/100% Comment Review Meetings	EA	0	0	0			0
Other Meetings	EA	6	6	36	6 Meetings x 2 PPI x 3 hrs each (2 Mtg @ FDOT, 2 Mtg @ CMB, 2 Mtg @ Historic)		0
Subtotal Technical Meetings				36	Subtotal Project Manager Meetings		0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
Total Meetings				36	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator: Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Special Handrail 439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	0	0	0	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	9	1	9	Revise labeling and handrail detail on 9 sheets
5.3.2	Typical Section Details		EA	0	0	0	
5.4	General Notes/Pay Item Notes		Sheet	1	1	1	Add notes informing contractor of special handrail.
5.5	Summary of Quantities Sheets		Sheet	0	0	0	
5.6	Project Layout		Sheet	0	0	0	
5.7	Plan/Profile Sheet		Sheet	0	0	0	
5.8	Profile Sheet		Sheet	0	0	0	
5.9	Plan Sheet		Sheet	8	2	16	Revise labeling on Tabeles (8 sheets) and provide any required additional labels
5.10	Special Profile		Sheet	0	0	0	
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.12	Interchange Layout Sheet		Sheet	0	0	0	
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.14	Intersection Layout Details		Sheet	0	0	0	
5.15	Special Details		EA	10	4	40	Revise 10 special details showing new handrail
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheet(s)		Sheet	0	0	0	
5.18	Cross Sections		EA	57	0.25	14	Revise handrail detail and add label for special handrail
5.19	Temporary Traffic Control Plan Sheets		Sheet	0	0	0	
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	
5.22	Utility Adjustment Sheets		Sheet	0	0	0	
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.25	Project Network Control Sheet(s)		Sheet	0	0	0	
5.26	Environmental Detail Sheets		Sheet	0	0	0	
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	0	0	0	
Roadway Plans Technical Subtotal						80	
5.28	Quality Assurance/Quality Control		LS	%	5%	4	
5.29	Supervision		LS	%	5%	4	
5. Roadway Plans Total						88	

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - GRAND TOTAL

Financial Project Number:

429228-2-58-01

Project Name: Special Handrail Design - Indian Creek Drive

FAP Number:

54321

Date: 7/2/2018

Name of Consultant: ASA

WORK ACTIVITY	Hours from "Summary" sheet		EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
	Grand Total	Total	Project Manager Hours	Project engineer Hours	Staff Classi- fication 3 Hours	Staff Classi- fication 4 Hours	Staff Classi- fication 5 Hours	Staff Classi- fication 6 Hours	Staff Classi- fication 7 Hours	Staff Classi- fication 8 Hours	Staff Classi- fication 9 Hours	Staff Classi- fication 10 Hours	Staff Classi- fication 11 Hours	Staff Classi- fication 12 Hours	RANGE		
																PERCENT	
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	42	21	21	0	0	0	0	0	0	0	0	0	0	0	42	46	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	100	50	50	0	0	0	0	0	0	0	0	0	0	0	100	110	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	142	71	71	0	0	0	0	0	0	0	0	0	0	0	142	156	
Field Survey Estimate:															142	156	
0 4-person crew days															142	156	
(Prime Consultant)															142	156	

Notes:

1. This worksheet provides the distribution of the grand total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 65 to 99 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.
5. This spreadsheet to be provided in Technical Proposals for Districts that require a breakdown of hours by classification.

Financial Project Number:

429228-2-58-01

FAP Number:

54321

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - GRAND TOTAL

Project Name: Special Handrail Design - Indian Creek Dr

Date: 7/2/2018

Name of Consultant: ASA

Staff Hour Distribution Percentages - Grand Total														
	Hours from "Summary" sheet Grand Total	Project Manager	Project engineer	Staff Classification 3	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	Total
3. Project General and Project Common Tasks	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
4. Roadway Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
5. Roadway Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6a. Drainage Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
6b. Drainage Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
7. Utilities	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	42	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
10. Structures - Bridge Development Report	0	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	100	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LiDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

Note: This spreadsheet to be used in Technical Proposal for Districts requiring the Grand Total hours be provided along with percentage distribution by classification.

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Special Handrail Design - Indian Creek Drive
County: Miami-Dade
FPN: 429228-2-58-01
FAP No.: 54321

Consultant Name: ASA
Consultant No.: enter consultants proj. number
Date: 7/20218
Estimator: insert name

Staff Classification		Total Staff Hours From "SH Summary Firm"	Project Manager	Project engineer	Staff Classification 3	Staff Classification 4	Staff Classification 5	Staff Classification 6	Staff Classification 7	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
			\$92.00	\$44.00	\$34.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
3. Project General and Project Common Tasks 4. Roadway Analysis 5. Roadway Plans 6a. Drainage Analysis 6b. Drainage Plans 7. Utilities 8. Environmental Permits, Compliance & Clearances 9. Structures - Misc. Tasks, Dwg's, Non-Tech. 10. Structures - Bridge Development Report 11. Structures - Temporary Bridge 12. Structures - Short Span Concrete Bridge 13. Structures - Medium Span Concrete Bridge 14. Structures - Structural Steel Bridge 15. Structures - Segmental Concrete Bridge 16. Structures - Movable Span 17. Structures - Retaining Walls 18. Structures - Miscellaneous 19. Signing & Pavement Marking Analysis 20. Signing & Pavement Marking Plans 21. Signalization Analysis 22. Signalization Plans 23. Lighting Analysis 24. Lighting Plans 25. Landscape Architecture Analysis 26. Landscape Architecture Plans 27. Survey (Field & Office Support) 28. Photogrammetry 29. Mapping 30. Terrestrial Mobile LIDAR 31. Architecture Development 32. Noise Barriers Impact Design Assessment 33. Intelligent Transportation Systems Analysis 34. Intelligent Transportation Systems Plans 35. Geotechnical 36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
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SALARY RELATED COSTS:		Check =	
OVERHEAD:			\$7,986.00
OPERATING MARGIN:	193.98%		\$15,491.24
FCCM (Facilities Capital Cost Money):	36%		\$2,874.96
EXPENSES:	0.26%		\$20.84
	0.17%		\$13.58
SUBTOTAL ESTIMATED FEE:			\$26,386.62
Survey (Field)	4-person crew	7 day	\$0.00
Geotechnical Field and Lab Testing			\$0.00
SUBTOTAL ESTIMATED FEE:			\$26,386.62
Optional Services			\$0.00
GRAND TOTAL ESTIMATED FEE:			\$26,386.62

Notes:
1. This sheet to be used by Subconsultant to calculate its fee.

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator:

Special Handrail Design - Indian Creek Drive
429228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
	General Drawings										
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0					
9.2	Project Layout	Sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0					
9.4	Miscellaneous Common Details	Sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	Sheet	0	0	0	0					
9.6	Standard Plans- Bridges	LS	1	0		0					
9.7	Existing Bridge Plans	LS	1	0		0					
9.8	Assemble Plan Summary Boxes and Quantities	LS	1	0		0					
9.9	Cost Estimate	LS	1	0		0					
9.1	Technical Special Provisions and Modified Special Provisions	LS	1	0		0					
Structures - Summary and Miscellaneous Tasks and Drawings					0	0					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
10-16	Bridge 4	0									
10-16	Bridge 5	0									

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

[illegible]

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	0	0	0			0
90/100% Comment Review	EA	0	0	0			0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0
Utility Companies	EA	0	0	0			0
Other Meetings	EA	1	8	8			0
Subtotal Technical Meetings				8			0

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Progress Meetings (if required by FDOT)	EA	0	0	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings	EA	0	0	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3	--
Total Meetings						8	Total Project Manager Meetings (carries to Tab 3)	0

Carries to 9.11

Carries to Tab 3

Project Activity 18: Miscellaneous Structures

Estimator:

Special Handrail Design - Indian Creek Drive
429228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
Strain Poles							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
		Initial Config	0	0		0	
18.6	Concrete Strain Poles	EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
Mast Arms							
18.9	Mast Arms	EA Design	0	0		0	
18.10	Mast Arms Data Table Plan Sheets	Sheet	0	0	0	0	
18.11	Mast Arm Special Details Plan Sheets	Sheet	0	0	0	0	
Overhead/Cantilever Sign Structures							
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
High Mast Lighting							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
Noise Barrier Walls (Ground Mount)							
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	
18.27	Aesthetic Details	LS	1	0		0	
Special Structures							

Project Activity 18: Miscellaneous Structures

18.28	Fender System	LS	1	0		0	
18.29	Fender System Access	LS	1	0		0	
18.30	Special Structures	LS	1	0		0	
18.31	Other Structures	LS	1	100		100	Handrail detail /Plans
Ancillary Structures Report							
18.32	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.33	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)	EA structure	0	0	0	0	
18.34	Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.35	Ancillary Structures Report	LS	1	0		0	
18. Structures - Miscellaneous Total						0	100

Task #25 – Meetings - Supplemental #3

Indian Creek Drive from 26th Street to 41st Street – ITB Supplemental 3

Ribbeck Engineering – September 25th, 2018

The Scope of Services for this task supplemental includes the request of additional meetings. The meetings include the 40 Bi-weekly meetings (20 months) that will be held with CIP, 7 Utility Owner meetings, 2 Miami Dade County Traffic Ops meetings for signals, and 1 FDOT comment resolution meeting.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:

439228-2-58-01

Project Name: Indian Creek Drive from 26 Street to 41 S

FAP Number:

0

Date: 9/24/2018

Name of Consultant: Ribbeck Engineering, Inc.

WORK ACTIVITY	Hours from "Summary" sheet Firm Total Hours	EMPLOYEE CLASSIFICATION												TOTAL STAFF HOURS		ON CADD
		Project Manager Hours	Sr Project Engineer Hours	Project Engineer Hours	Sr Engineer Hours	Engineer Intern Hours	Sr Designer Hours	Staff Classi- fication 7 Hours	Staff Classi- fication 8 Hours	Staff Classi- fication 9 Hours	Staff Classi- fication 10 Hours	Staff Classi- fication 11 Hours	Staff Classi- fication 12 Hours	RANGE		
															PERCENT	
3. Project General and Project Common Tasks	211	84	84	0	42	0	0	0	0	0	0	0	0	210	231	
4. Roadway Analysis	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	
5. Roadway Plans	0	0	0	0	0	0	-1	0	0	0	0	0	0	-1	-1	
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9. Structures - Misc. Tasks, Dwg. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTALS	211	84	84	42	1	0	-1	0	0	0	0	0	0	210	231	

Field Survey Estimate:	231
0 4-person crew days	210
FIRM TOTAL	231

Notes:

1. This worksheet provides the distribution of a firm's total staff hours for a project.
2. Percentages for staff hour distribution by classification are entered below in rows 64 to 98 of this sheet.
3. Total Staff Hours (column O) may not match staff hours from Summary worksheet (column B) due to rounding. Staff hours calculated for employee classifications are to be adjusted so totals in columns B and O match.
4. Formulas under "Total Staff Hours Range" (columns O & P) may be adjusted to provide desired range.

ESTIMATE OF WORK EFFORT FOR TECHNICAL PROPOSALS - FIRM TOTAL

Financial Project Number:	439228-2-58-01	Project Name: Indian Creek Drive from 26 Street to 41 S
FAP Number:	0	Name of Consultant: Ribbeck Engineering, Inc.
	9/24/2018	

Staff Hour Distribution Percentages - Firm Total														
	Hours from "Summary" sheet Firm Total	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	Total
3. Project General and Project Common Tasks	211	40.0%	40.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
4. Roadway Analysis	0	0.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
5. Roadway Plans	0	0.0%	0.0%	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6a. Drainage Analysis	0	20.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
6b. Drainage Plans	0	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
7. Utilities	0	20.0%	20.0%	20.0%	10.0%	20.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.00%
8. Environmental Permits, Compliance & Clearances	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
10. Structures - Bridge Development Report	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
11. Structures - Temporary Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
12. Structures - Short Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
13. Structures - Medium Span Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
14. Structures - Structural Steel Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
15. Structures - Segmental Concrete Bridge	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
16. Structures - Movable Span	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
17. Structures - Retaining Walls	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
18. Structures - Miscellaneous	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
19. Signing & Pavement Marking Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
20. Signing & Pavement Marking Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
21. Signalization Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
22. Signalization Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
23. Lighting Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
24. Lighting Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
25. Landscape Architecture Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
26. Landscape Architecture Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
27. Survey (Field & Office Support)	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
28. Photogrammetry	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
29. Mapping	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
30. Terrestrial Mobile LIDAR	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
31. Architecture Development	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
32. Noise Barriers Impact Design Assessment	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
33. Intelligent Transportation Systems Analysis	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
34. Intelligent Transportation Systems Plans	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
35. Geotechnical	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%
36. 3D Modeling	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00%

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Indian Creek Drive from 28 Street to 41 Street 1TB - Supp. 3 - Meetings
County: Miami-Dade
FPN: 439228-2-58-01
FAP No.: 10/1900

Consultant Name: Ribbeck Engineering, Inc.
Consultant No.: enter consultants proj. number
Date: 9/24/2018

Estimator: insert name

Staff Classification	Hours From Summary - Firm"	Project Manager	Sr Project Engineer	Project Engineer	Sr Engineer	Engineer Intern	Sr Designer	Staff Classi- fication 7	Staff Classi- fication 8	Staff Classi- fication 9	Staff Classi- fication 10	Staff Classi- fication 11	Staff Classi- fication 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	211	84	84	0	42	0	0	0	0	0	0	0	0	210	\$12,852	\$60.40
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$20.00
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$25.00
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
9. Structures - Misc. Tasks, Divgs. Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
30. Terrestrial Mobile LIDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!
Total Staff Hours	211	84	84	0	42	0	0	0	0	0	0	0	0	210	\$12,852.00	\$61.20
Total Staff Cost		\$5,460.00	\$4,872.00	\$0.00	\$2,520.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$12,719.00	

Survey Field Days by Subconsultant
4 - Person Crew:

SALARY RELATED COSTS:		Check =
OVERHEAD:		\$12,852.00
OPERATING MARGIN:	163.76%	\$21,046.44
ECCM (Facilities Capital Cost Money):	38.50%	\$4,946.02
EXPENSES:	0.00%	\$98.57
Survey (Field - f by Prime)	0	\$0.00
SUBTOTAL ESTIMATED FEE:		\$38,945.03
Subconsultant: Enter Name Sub 1		\$0.00
Subconsultant: Sub 2		\$0.00
Subconsultant: Sub 3		\$0.00
Subconsultant: Sub 4		\$0.00
Subconsultant: Sub 5		\$0.00
Subconsultant: Sub 6		\$0.00
Subconsultant: Sub 7		\$0.00
Subconsultant: Sub 8		\$0.00
Subconsultant: Sub 9		\$0.00
Subconsultant: Sub 10		\$0.00
Subconsultant: Sub 11		\$0.00
Subconsultant: Sub 12		\$0.00
SUBTOTAL ESTIMATED FEE:		\$38,945.03
Geotechnical Field and Lab Testing		\$0.00
SUBTOTAL ESTIMATED FEE:		\$38,945.03
Optional Services		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$38,945.03

Notes:

- This sheet to be used by Prime Consultant to calculate the Grand Total fee.
- Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

Project Activity 3: General Tasks

Estimator:

Indian Creek Drive from 26 Street to 41 Street ITB - Supp. 3 - Meetings
439228-2-58-01

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	
3.1.2	Notifications	LS	1	0	0	
3.1.3	Prepare Mailing Lists	LS	1	0	0	
3.1.4	Median Modification Letters	LS	1	0	0	
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	
3.1.7	Renderings and Fly Throughs	LS	1	0	0	
3.1.8	PowerPoint Presentation	LS	1	0	0	
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Followup	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	See signals below
3.1.12	Web Site	LS	1	0	0	
3.1 Public Involvement Subtotal					0	
3.2	Joint Project Agreements	EA	0	0	0	
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance and EDMS	LS	1	0	0	
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	211	211	See listing below
3.7	Plans Update	LS	1	0	0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	0	0	
3. Project Common and Project General Tasks Total					211	

3.6 - List of Project Manager Meetings						Comments
Roadway Analysis	EA	0	0	0	0	
Drainage	EA	0	0	0	0	
Utilities	EA	7	3	21	21	Assume 2 FPL (Signal & Lighting Power Source), 4 FGT (conflicts), 1 ATT (Signals)=7 mtgs x 3 hrs
Environmental	EA	0	0	0	0	
Structures	EA	0	0	0	0	
Signing & Pavement Marking	EA	0	0	0	0	
Signalization	EA	2	2	4	4	2 meetings with Miami Dade County Signals
Lighting	EA	0	0	0	0	
Landscape Architecture	EA	0	0	0	0	
Survey	EA	0	0	0	0	
Photogrammetry	EA	0	0	0	0	
ROW & Mapping	EA	0	0	0	0	
Terrestrial Mobile LIDAR	EA	0	0	0	0	
Architecture	EA	0	0	0	0	
Noise Barriers	EA	0	0	0	0	
ITS Analysis	EA	0	0	0	0	
Geotechnical	EA	0	0	0	0	
Progress Meetings	EA	60	3	180	180	Assume 20 months/biweekly and half meetings for drainage engineer = 20 mths x 2 wk x 3hrs x 1.5 engineers
Phase Reviews	EA	3	2	6	6	Revised Plans Comment resolution mtg = 3 eng (PM, rdwy, drainage) x 2 hrs
Field Reviews	EA	0	0	0	0	Covered under PDS
Total Project Manager Meetings					211	Total PM Meeting Hours carries to Task 3.6 above

Notes:

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
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1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting ag
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.