

Clay County Agreement/Contract No. 2020/2021-213 AM5

**FIFTH AMENDMENT TO AGREEMENT FOR PROFESSIONAL ENGINEERING
DESIGN CONSULTANT SERVICES FOR THE BONDED TRANSPORTATION
PROGRAM CONSTRUCTION MANAGEMENT AT RISK GROUP #2
[Jacobs Engineering Group Inc.]**

This Fifth Amendment to Agreement for Professional Engineering Design Consultant Services for the Bonded Transportation Program Construction Management At Risk Group #2 (“Fifth Amendment”) is made and entered into on this ____ day of January, 2023 by and between Clay County, a political subdivision of the State of Florida (the “County”) and Jacobs Engineering Group Inc., a Delaware Corporation (“Consultant”).

RECITALS

WHEREAS, the County sold Sales Surtax Revenue Bonds, Series 2020 to finance the costs of the acquisition and construction of certain roadway improvements in the County referred to by the County as the Bonded Transportation Program (“BTP”); and

WHEREAS, on September 8, 2020, the County entered into an Agreement with WGI, Inc. (“Owner Rep”) wherein the Owner Rep agreed to serve as the County’s representative to oversee the design and construction (by others) in relation to the BTP; and

WHEREAS, on June 22, 2021, the County and the Consultant entered into an Agreement for Professional Engineering Design Consultant Services for the Bonded Transportation Program Construction Management At Risk Group #2, Clay County Agreement/Contract No. 2020/2021-213 (“Agreement”), incorporated herein by reference, wherein the Consultant agreed to provide Engineering Design Consultant Services for the design of CMAR Group #2, Project 2 (CR 209 from Highway 17 to CR 315B), Project 5 (CR 220 from Baxley Road to Henley Road), and Project 6A (Fifth Coast Connector, CR 315 to Highway 17); and

WHEREAS, on August 10, 2021, the County entered into Phase 1 Preconstruction Agreement for Construction Management at Risk Services for the Bonded Transportation Program Group #2 Projects with Superior Construction Company Southeast, LLC (“Contractor”) to develop an open book Guaranteed Maximum Price (“GMP”) proposal tied to a final completion date for the construction of CMAR Group #2 Projects; and

WHEREAS, the County, the Owner Rep, the Consultant, and the Contractor comprise a “Project Team” to work together in the development of the design of CMAR Group #2 Projects to minimize design and construction cost and reduce the overall schedule of CMAR Group #2 Projects; and

WHEREAS, on March 8, 2022, the parties entered into the First Amendment to the Agreement, incorporated herein by reference, to add roundabout final design services listed as an optional service under CR 315 to be performed by the Consultant in relation to Project 6A in the lump sum amount of \$9,827.14; and

WHEREAS, on July 12, 2022, the parties entered into the Second Amendment to the Agreement, incorporated herein by reference, to provide for value engineering services to be performed by the Consultant in relation to Project 2, which includes a design scope change to incorporate alignment and typical section changes to minimize right of way impacts in the total lump sum amount of \$205,889.85; to modify the geotechnical scope in relation to Project 6A to account for the additional borings required due to pond size increases in the lump sum amount of \$13,167.01; and to reduce the limiting amount tasks under Project 6A in the amount of (-\$42,522.00) due to the replacement of the signalized intersection with a roundabout. These modifications resulted in a net increase of \$176,534.86 to the total contract price; and

WHEREAS, the Second Amendment also amended the construction design document completion dates and the Incentives-Disincentives Completion Dates for Projects 2, 5, and 6A; and

WHEREAS, on September 28, 2022, the parties entered into the Third Amendment to the Agreement, incorporated herein by reference, to provide for value engineering services to be performed by the Consultant in relation to Project 5, which involves the elimination of the 3' grassed utility strip and providing for a 6' sidewalk adjacent to curb in the total lump sum amount of \$31,779.56; and

WHEREAS, on November 17, 2022, the parties entered into the Fourth Amendment to the Agreement, incorporated herein by reference, to amend the scope of services to provide for a Geotechnical pond analysis for Project 5 and Geotechnical pond borings for Project 6A in the total lump sum amount of \$24,612.18; and

WHEREAS, as part of the Bonded Transportation Program, a cost savings mitigation workshop was held for Project 2 which included a recommendation to tie into existing CR 209 approximately 750' west of US 17 and eliminate the intersection of US 17, which was included in the Second Amendment to the Agreement; and

WHEREAS, it is recommended that the roadway, drainage, traffic control, and signing and marking design and plans for approximately 750' to tie into US 17 matching the ultimate configuration of the US 17/CR 209 intersection provided by the Florida Department of Transportation (FDOT) be added to the intersection work at US 17 for Project 2; and

WHEREAS, geotechnical investigation and analysis are needed to provide a design for pond liners for ponds 2 & 3 to prevent additional secondary wetland impacts; and

WHEREAS, the total lump sum amount to add the connection at US 17 and tie to the proposed FDOT intersection at the Right of Way line and to add Geotechnical analysis to include pond liners for ponds 2 & 3 is \$76,236.30; and

WHEREAS, the Agreement, as amended by the Second Amendment, provides that the Consultant must complete and deliver a complete set of construction design documents to the County for CMAR Group #2 Projects by the following not to exceed deadlines: Project No. 2:

February 16, 2023, Project No. 5: November 19, 2022, and Project No. 6A: December 19, 2022; and

WHEREAS, due to scope modifications and re-design efforts, modifications are needed to the construction design document completion dates; and

WHEREAS, the Agreement may only be modified or amended upon mutual written agreement of the County and the Consultant; and

WHEREAS, the parties desire to enter into this Fifth Amendment to amend the scope of services to add the connection at US 17 and tie to the proposed FDOT intersection at the Right of Way line and to add Geotechnical analysis to include pond liners for ponds 2 & 3, amend provisions 4.2 and 7.1 of the Agreement, amend Attachment D (Consultant's Clarifications to RFQ Scope of Services), and amend Attachment F (Consultant's Estimate of Work Effort) as set forth herein.

NOW THEREFORE, in consideration of the foregoing Recitals, the mutual covenants and promises set forth herein, and for other good and valuable consideration, the receipt of which is hereby acknowledged and all objections to the sufficiency and adequacy of which are hereby waived, the parties agree as follows:

1. The above recitals are true and correct and are incorporated herein by reference.
2. The Scope of Services to be performed by the Consultant under the Agreement is hereby amended to add the connection at US 17 and tie to the proposed FDOT intersection at the Right of Way line and to add Geotechnical analysis to include pond liners for ponds 2 and 3 in the total lump sum amount of \$76,236.30.
3. Provision 4.2 in Section 4 of the Agreement is hereby amended and replaced in its entirety with the following:
 - 4.2. The Consultant must complete and deliver a complete set of construction design documents to the County for CMAR Group #2 Projects by the following not to exceed deadlines:

Project No. 2:	June 14, 2023
Project No. 5:	June 19, 2023
Project No. 6A:	December 19, 2022
4. Provision 7.1 in Section 7 of the Agreement is hereby amended and replaced in its entirety with the following:
 - 7.1. The County agrees to pay the Consultant for the Services performed for CMAR Group #2 Projects in accordance with the terms of this Agreement on a lump sum for design services and cost reimbursement basis for post-design services in an amount that **shall not exceed the total sum of \$3,254,552.80**. This

amount includes the Services performed by the Consultant and its subconsultants, travel, overtime, man-hours, materials, equipment, supplies, labor, overhead, profit, and all other costs, expenses and reimbursables associated with the Consultant's performance of the Services.

5. Attachment D (Consultant's Clarifications to RFQ Scope of Services) to the Agreement is hereby removed and replaced in its entirety with Attachment D (Consultant's Clarifications to RFQ Scope of Services) attached to this Fifth Amendment which includes scope clarifications addressing the connection at US 17 and tie to the proposed FDOT intersection and Geotechnical analysis.

6. The one page CMAR #2 Project Summary of Lump Sum and Limiting Amount Tasks/cover sheet to Attachment F (Consultant's Estimate of Work Effort) to the Agreement is hereby removed and replaced with the amended one page CMAR #2 Project Summary of Lump Sum and Limiting Amount Tasks/cover sheet attached to this Fifth Amendment as Attachment F (Consultant's Estimate of Work Effort) which amends the total amounts in relation to CMAR Group #2. Additionally, Attachment F is amended to include the estimated work effort attached to this Fifth Amendment to include the connection at US 17 and tie to the proposed FDOT intersection at the Right of Way line and Geotechnical analysis to include pond liners for ponds 2 and 3. Except as expressly provided herein, the remainder of Attachment F to the Agreement remains in full force and effect.

7. The Consultant hereby certifies that the Scrutinized Companies Certification that was executed in compliance with Section 287.135(5), Florida Statutes is still valid.

8. All provisions in the Agreement and any amendments, attachments, schedules or exhibits thereto in conflict with this Fifth Amendment shall be and hereby are changed to conform to this Fifth Amendment.

9. Except as expressly provided herein, all other terms and conditions of the Agreement, as amended, not affected by this Fifth Amendment are incorporated herein and shall remain in full force and effect.

10. The parties agree to utilize electronic signatures and that the digital signatures of the parties set forth below are intended to authenticate this Fifth Amendment and have the same force and effect as manual written signatures. Each person signing on behalf of the parties represents and warrants that he/she has full authority to execute this Fifth Amendment on behalf of such party and that the Fifth Amendment will constitute a legal and binding obligation of such party.

[Signatures appear on the following page.]

IN WITNESS WHEREOF, the parties hereto have executed this Fifth Amendment to the Agreement as of the date and year first written above.

JACOBS ENGINEERING GROUP INC.

By: _____

Print Name: _____

Print Title: _____

CLAY COUNTY, a political subdivision of the State of Florida

By: _____

Betsy Condon
Its Chairman

ATTEST:

Tara S. Green
Clay County Clerk of Court and Comptroller
Ex Officio Clerk to the Board

Total Amount	\$2,935,562.76
AM1	\$ 9,827.14
AM2	\$ 176,534.86
AM3	\$ 31,779.56
AM4	\$ 24,612.18
AM5	\$ 76,236.30
Adjusted Total Amount	\$3,254,552.80

**ATTACHMENT D
CONSULTANT'S
CLARIFICATION
TO RFQ SCOPE
OF SERVICES**

AMENDMENT 5

SCOPE OF SERVICES REVISIONS FOR Clay County Agreement/Contract No. 2020/2021-213 AGREEMENT FOR PROFESSIONAL ENGINEERING DESIGN CONSULTANT SERVICES FOR THE BONDED TRANSPORTATION PROGRAM CONSTRUCTION MANAGEMENT AT RISK GROUP #2

1 INTRODUCTION

As part of the Clay County Bonded Transportation Program (CCBTP), a cost savings mitigation workshop was held for Project 2 - CR 209 from Peters Creek to US-17. A recommendation to tie into existing CR 209 approximately 750' west of US 17 and eliminate the intersection of US 17 was included in Clay County Agreement/Contract No. 2020/2021-213 AM2. This amendment is to add the connection at US 17 and tie to the proposed FDOT intersection at the R/W line. Also included is to add Geotechnical analysis to include pond liners for ponds 2 & 3.

2 PROJECT DESCRIPTION

1) Add the intersection work at US 17

Add roadway, drainage, traffic control, and signing and marking design and plans for approximately 750' to tie into US 17 matching the ultimate configuration of the US 17/CR 209 intersection provided by FDOT. Existing Signalization at US 17 to remain except for new traffic loops on CR 209.

2) Pond Liner Analysis

The NWL of the ponds need to be lowered due to location and hydraulics of the ponds. Geotechnical investigation and analysis are needed to provide a design for pond liners for ponds 2 & 3 to prevent additional secondary wetland impacts.

2.01 Project Schedule

A revised schedule will be submitted at a later date.

2.02 Plans Submittals

Phase III 90% Submittal (Sign and Seal plans if GMP is accepted)
Phase IV 100% Submittal (Only needed if GMP is not accepted).

9 ENVIRONMENTAL SERVICES AND PERMITS

9.01 Preliminary Project Research

Changes to be included in permit modification in Clay County Agreement/Contract No. 2020/2021-213 AM2.

9.02 Field Work

Additional wetland flagging and verification, and any additional survey needed will be performed and provided by the owner's representative.

AMENDMENT 3

SCOPE OF SERVICES REVISIONS FOR REQUEST FOR QUALIFICATIONS NO. 20/21-14 PROFESSIONAL ENGINEERING DESIGN CONSULTANT SERVICES FOR THE BONDED TRANSPORTATION PROGRAM (BTP) CONSTRUCTION MANAGEMENT AT RISK (CMAR) GROUP #2

1 INTRODUCTION

As part of the Clay County Bonded Transportation Program (CCBTP), a cost savings mitigation workshop was held for Project 5 - CR 220 from Baxley Road to Shamrock Dr. on June 1, 2022.

The team's focus and effort were to brainstorm cost savings ideas and compile, select and present items that would have a positive impact on the overall budget while maintaining the integrity of the BTP Mission Statement: *"To design and build the safest and most efficient roadway and drainage systems for the projects defined in the Bonded Transportation Program."* In addition, the team identified design shortfalls or alternative criteria to consider that would improve the design.

2 PROJECT DESCRIPTION - PLAN CHANGE RECOMMENDATIONS

1) Modify typical section

- Incorporate approved design variation which modified the clear zone to 14'.
- Eliminate the 3' grassed utility strip and provide 6' sidewalk adjacent to curb.
- ADA sidewalk ramps at Baxley/CR 220 intersection to remain as previous submittal.

2.01 Project Schedule

A revised schedule will be submitted at a later date.

2.02 Plans Submittals

Revised Phase III 90% Submittal (Sign and Seal plans if GMP is accepted)
Phase IV 100% Submittal (Only needed if GMP is not accepted).

9 ENVIRONMENTAL SERVICES AND PERMITS

9.01 Preliminary Project Research

Submit permit with typical section revisions incorporated.

ATTACHMENT D

CLARIFICATIONS TO SCOPE OF SERVICES FOR REQUEST FOR QUALIFICATIONS NO. 20/21-14 PROFESSIONAL ENGINEERING DESIGN CONSULTANT SERVICES FOR THE BONDED TRANSPORTATION PROGRAM (BTP) CONSTRUCTION MANAGEMENT AT RISK (CMAR) GROUP #2

Project Limits changed

Project #2 - CR 209 from US 17 to Peters Creek Bridge

Project #5 – CR 220 Baxley Road to Shamrock Dr.

Project #6A – CR 315 Maryland Ave to Hwy 17

1 INTRODUCTION

Added to WGI services

- Right of Way Mapping and Acquisition Services
- Wetland Flagging
- Railroad Coordination and Railroad Permits
- Public Involvement services

2 PROJECT DESCRIPTION

Revised project limits

The three projects under CMAR Group #2 are:

Project #2 - CR 209 from US 17 to Peters Creek Bridge. Improvements will consist of widening/reconstruction of the existing two-lane rural roadway to a four-lane urban roadway with bike paths and sidewalks. Sidewalk will be on the north and south side of CR 209 between US 17 and CSX railroad and the west side of CR 209 between the CSX railroad and Peters Creek Bridge. These modifications will require coordination with the FDOT and CSX railroad. It is anticipated that the left turning movement on CR 209 at the intersection of CR 315 B will require two lanes.

Project #5 – CR 220 Baxley Road to Shamrock Dr. Improvements will consist of widening/reconstruction of the existing two-lane rural roadway to a four-lane urban roadway with bike paths and sidewalks.

Project #6A – Maryland Ave to Hwy 17 Improvements will consist of widening/reconstruction of the existing two-lane rural roadway to a four-lane urban roadway between Maryland Ave. to CSX Railroad and a 5-Lane undivided roadway between CSX Railroad to US 17. Bike Lanes and sidewalks will be included. These modifications will require coordination with the FDOT and CSX railroad. A roundabout evaluation will be performed for CR 315/CR 315B intersection.

2.02 Plans Submittals

Typical section package not required.

Permit Application Fees by Clay County.

Railroad Certification by Owners Representative.

Phase IV 90% Submittal (Sign and Seal plans if GMP is accepted)

Phase V 100% Submittal (Only needed if GMP is not accepted)

3.01 Public Involvement

Community Awareness Plan (By Owners Rep)

3.02 Notifications

In addition to public involvement data collection, the Owners Rep. shall assist the County or prepare notifications, flyers, and/or letters to elected officials and other public officials, private property owners, and tenants at intervals during plans production as identified by the County.

3.03 Preparing Mailing Lists

At the beginning of the project, the Owners Rep shall identify all impacted property owners and tenants (within a minimum of 300 feet of the project corridor) The Owners Rep shall prepare a mailing list of all such entities and shall update the mailing list as needed during the life of the project.

3.04 Driveway Modification Letters

The Owners Rep shall prepare a driveway modification letter to be sent to property owners along the corridor. In addition, the Consultant shall prepare a sketch of each proposed driveway modification for inclusion in the letter. The letters will be sent on County's letterhead.

5.01 Typical Section Package N/A

6 ROADWAY PLANS

The Consultant shall prepare Roadway, Drainage, Traffic Control, Utility Adjustment Sheets, plan sheets, notes, and details. The plans shall include the following sheets necessary to convey the intent and scope of the project for the purposes of construction:

key sheet, drainage map(s), typical sections sheet(s), summary of quantities sheet(s), box culvert data sheet(s), summary of drainage structures sheet(s), project layout sheet(s), reference points, general notes, plan/profile sheet(s), special profile sheet(s), intersection layout sheets, miscellaneous detail sheet(s) (if applicable), drainage structure sheet(s), miscellaneous drainage detail sheet(s) (if applicable), pond detail sheet(s), pond cross section sheet(s), lateral ditch sheet(s), control structure detail sheet(s), roadway soil survey sheet(s), cross section sheet(s), SWPPP sheet(s), erosion control sheet(s), traffic control sheet(s), utility adjustment sheet(s), utility verification sheet(s) (SUE Data) and any other detail sheets necessary to convey the intent and scope of the project for the purpose of

construction. Stationing of the project Survey Baseline will be provided by the Owners Rep for use in the construction plans. Plans production will generally follow FDOT tabloid size plan format.

9 ENVIRONMENTAL SERVICES AND PERMITS

9.01 Preliminary Project Research

Preliminary project research has been performed by the Owners Rep for early identification of and coordination with the appropriate regulatory agencies to assist the design efforts and permits requirements. The Owners Rep will have performed and produced a Wetland Evaluation Report, Endangered Species Biological Assessment and any other environmental documents needed.

9.02 Field Work

9.02.2 Agency Verification of Wetland Data

The Owners Rep shall be responsible for verification with permitting agencies of wetland data identified in Section 9.02.

12 SIGNALIZATIONS ANALYSIS & PLANS

12.03 Signal Warrant Study- N/A

12.06 Reference and Master Interconnect Communication Design File -N/A

14 POST DESIGN SERVICES

Post Design Services may include, but not limited to, meetings, construction assistance, plans revisions, shop drawing review, and load ratings. An initial estimated level of effort is included in the limiting amount task. If additional funding is required, this will be negotiated at a later date.

ATTACHMENT F
CONSULTANT'S
ESTIMATE OF
WORK EFFORT

ATTACHMENT F

CMAR 2 Summary of Lump Sum and Limiting Amount tasks

1/3/2023

Lump Sum Tasks		
CR 209	Jacobs	\$874,878.46
	Subconsultant: Peters & Yaffee	\$0.00
	Subconsultant: CSI-Geo	\$0.00
	Subconsultant: T2 UES	\$0.00
	Subconsultant: Peggy Malone	\$0.00
	TOTAL ESTIMATED FEE:	\$874,878.46

Limiting Amount Tasks		
CR 209	Jacobs	\$35,626.91
	Subconsultant: Peters & Yaffee	\$0.00
	Subconsultant: CSI-Geo	\$133,269.90
	Subconsultant: T2 UES	\$108,762.74
	Subconsultant: Peggy Malone	\$2,658.00
	TOTAL ESTIMATED FEE:	\$280,317.55

Incentives		
CR 209	Jacobs	\$120,000.00

GRAND TOTAL ESTIMATED FEE CR 209: \$1,275,196.01

Total CMAR2	Jacobs	\$2,027,459.57
	Subconsultant: Peters & Yaffee	\$125,220.50
	Subconsultant: CSI-Geo	\$372,573.79
	Subconsultant: T2 UES	\$361,006.00
	Subconsultant: Peggy Malone	\$8,293.00
	Incentives	\$360,000.00
	*GRAND TOTAL LS & LA ESTIMATED FEE:	\$3,254,552.80

Optional Services		
CR 209	Modeling Services	\$56,034.06
	Roundabout Final Design Services	\$0.00
	Gravity Wall Design Services	\$33,215.82
	Additional MOT for SUE work Services	\$14,261.76
	90%-100% Design Services	\$12,514.57
	US 17/CR 315 Signal Services	\$0.00
	TOTAL ESTIMATED FEE:	\$116,026.21

Lump Sum Tasks		
CR 220	Jacobs	\$484,139.60
	Subconsultant: Peters & Yaffee	\$101,991.02
	Subconsultant: CSI-Geo	\$0.00
	Subconsultant: T2 UES	\$0.00
	Subconsultant: Peggy Malone	\$0.00
	TOTAL ESTIMATED FEE:	\$586,130.62

Limiting Amount Tasks		
CR 220	Jacobs	\$33,110.55
	Subconsultant: Peters & Yaffee	\$0.00
	Subconsultant: CSI-Geo	\$116,316.85
	Subconsultant: T2 UES	\$120,128.61
	Subconsultant: Peggy Malone	\$1,867.00
	TOTAL ESTIMATED FEE:	\$271,423.01

Incentives		
CR 220	Jacobs	\$120,000.00

GRAND TOTAL ESTIMATED FEE CR 220: \$977,553.63

* Grand Total included Roundabout Final Design Services under Optional Services per AM1 in the amount of \$9,827.14

Lump Sum Tasks		
CR 315	Jacobs	\$550,200.44
	Subconsultant: Peters & Yaffee	\$23,229.48
	Subconsultant: CSI-Geo	\$0.00
	Subconsultant: T2 UES	\$0.00
	Subconsultant: Peggy Malone	\$0.00
	TOTAL ESTIMATED FEE:	\$573,429.92

Limiting Amount Tasks		
CR 315	Jacobs	\$39,676.47
	Subconsultant: Peters & Yaffee	\$0.00
	Subconsultant: CSI-Geo	\$122,986.98
	Subconsultant: T2 UES	\$132,114.65
	Subconsultant: Peggy Malone	\$3,768.00
	TOTAL ESTIMATED FEE:	\$298,546.10

Incentives		
CR 315	Jacobs	\$120,000.00

GRAND TOTAL ESTIMATED FEE CR 315: \$991,976.02

Optional Services		
CR 315	Modeling Services	\$61,058.31
	Roundabout Final Design Services	\$9,827.14
	Gravity Wall Design Services	\$34,233.20
	Additional MOT for SUE work Services	\$12,479.04
	90%-100% Design Services	\$12,558.28
	US 17/CR 315 Signal Services	\$50,012.16
	TOTAL ESTIMATED FEE:	\$180,168.13

Geotechnical Fee Estimate
Project # 2 - CR 209 from US 17 to Peters Creek Bridge
Clay County, Florida
Pond Liner

Geotechnical Item	Unit	Number of Units	Cost / Unit	Estimated Cost
<u>Field Investigation</u>				
Crew & Equipment Mobilization / Demobilization:				
Mobilization - Tripod	ea.	2	\$1,300.00 /ea.	\$2,600.00
Pond Liners for Ponds 2 & 3:				
3 SPT Borings @ 40' each	lin. ft.	120	\$30.00 /lin. ft.	\$3,600.00
Extra Split Spoon Sample	ea.	27	\$45.00 /ea.	\$1,215.00
Grout Borehole	lin. ft.	120	\$8.50 /lin. ft.	\$1,020.00
Stand By Time/Difficult Access (3-person)	hr.	4	\$295.00 /hr.	\$1,180.00
		Subtotal:		\$9,615.00
<u>Laboratory Testing</u>				
Moisture Content of Soils	ea.	5	\$21.00 /ea.	\$105.00
Material Finer Than No. 200 Sieve	ea.	5	\$45.00 /ea.	\$225.00
Organic Content in Soils	ea.	2	\$50.00 /ea.	\$100.00
Grain Size Analysis	ea.	2	\$67.00 /ea.	\$134.00
Plastic limit of soil	ea.	3	\$49.00 /ea.	\$147.00
Liquid limit of soil	ea.	3	\$55.00 /ea.	\$165.00
		Subtotal:		\$876.00
<u>Engineering/Support Services</u>				
Project Manager	hr.	3	\$190.44 /hr.	\$571.32
Project Engineer	hr.	4	\$140.25 /hr.	\$561.00
Staff Engineer	hr.	14	\$133.10 /hr.	\$1,863.40
CADD/Computer Technician	hr.	11	\$96.25 /hr.	\$1,058.75
Geotechnical Technician	hr.	6	\$77.69 /hr.	\$466.14
Secretary/Clerical	hr.	3	\$46.75 /hr.	\$140.25
		Subtotal:		\$4,660.86
GRAND TOTAL ESTIMATED FEE:				\$15,151.86

* See Project Activity 35, for detailed man hours

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: LS CR 209 - Add US 17 tie and Pond Lining
 County: Clay
 FPN: N/A
 FAP No.:

Consultant Name: Jacobs Engineering Group
 Consultant No.: enter consultants proj. number
 Date: 11/15/2022
 Estimator: Mike Roland

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Principal	Project Manager	Chief Engineer	Sr. Engineer	Engineer	Engineer Intern	Engineering Technician	Sr Designer	Designer	Contract Coordinator	Chief Scientist	Secretary/Clerical		SH By Activity	Salary Cost By Activity	Average Rate Per Task
													SH	Activity			
3. Project General and Project Common Tasks	12	0	3	1	1	1	2	0	0	0	2	0	2	2	12	\$646	\$53.82
4. Roadway Analysis	115	0	12	3	12	23	29	12	12	12	0	0	0	0	115	\$5,713	\$49.67
5. Roadway Plans	100	0	5	3	10	10	22	20	10	20	0	0	0	0	100	\$4,540	\$45.40
6a. Drainage Analysis	59	0	6	2	6	12	15	6	6	6	0	0	0	0	59	\$2,943	\$49.88
6b. Drainage Plans	46	0	2	1	5	5	10	9	5	9	0	0	0	0	46	\$2,080	\$45.22
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
8. Environmental Permits, and Env. Clearances	27	0	3	1	3	7	5	1	0	0	0	7	0	0	27	\$1,614	\$59.78
9. Structures - Misc. Tasks, Dvgs, 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	32	0	3	2	3	6	9	3	3	3	0	0	0	0	32	\$1,606	\$50.19
20. Signing & Pavement Marking Plans	6	0	0	0	1	1	1	1	1	1	0	0	0	0	6	\$274	\$45.72
21. Signalization Analysis	13	0	1	1	3	4	4	1	1	1	0	0	0	0	13	\$652	\$50.18
22. Signalization Plans	22	0	1	1	2	2	6	4	2	4	0	0	0	0	22	\$995	\$45.23
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 Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
26. Landscape 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 LDAR	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
Total Staff Hours	432	0	36	15	44	70	103	57	40	56	2	7	2	2	432	\$21,063.60	\$48.76
Total Staff Cost	\$0.00	\$2,871.80	\$2,890.32	\$1,266.70	\$2,891.30	\$3,424.75	\$1,704.87	\$17,989.20	\$2,423.68	\$70.08	\$494.76	\$54.14	\$27.07	\$21,063.60	\$48.76	\$21,063.60	\$48.76

MULTIPLIER	2.90	Check =	\$21,063.60
Survey Field Days by Subconsultant			
4 - Person Crew:			
Survey (Field - If by Prime)	0	4-person crew days @ \$ / day	\$0.00
SUBTOTAL ESTIMATED FEE:			\$61,084.44
Subconsultant: Peters & Yaffee			\$0.00
Subconsultant: CSI-Geo			\$15,151.86
Subconsultant: T2 UES			\$0.00
Subconsultant: Peggy Malone			\$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:			\$76,236.30
Permit Application Fees			\$0.00
SUBTOTAL ESTIMATED FEE:			\$76,236.30
Optional Services			\$0.00
GRAND TOTAL ESTIMATED FEE:			\$76,236.30

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.

3. Project General Tasks

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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	N/A By Owners Rep.
3.1.2	Notifications	LS	1	0	0	N/A By Owners Rep.
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A By Owners Rep.
3.1.4	Median Modification Letters	LS	1	0	0	N/A By Owners Rep.
3.1.5	Driveway Modification Letters	LS	1	0	0	
3.1.6	Newsletters	LS	1	0	0	N/A By Owners Rep.
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A By Owners Rep.
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A By Owners Rep.
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Follow-up	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	N/A By Owners Rep.
3.1.12	Web Site	LS	1	0	0	N/A By Owners Rep.
3.1 Public Involvement Subtotal					0	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications Package Preparation	LS	1	0	0	
3.4	Contract Maintenance and Project Documentation	LS	1	0	0	In AM2
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	12	12	See listing below
3.7	Plans Update	LS	1	0	0	N/A

3. Project General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	Part of Reimbursable tasks
3.9	Digital Delivery	LS	1	0	0	Included in Original Fee
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A By Owners Rep.
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	Included in Original Fee
3. Project Common and Project General Tasks Total					12	

3.6 - List of Project Manager Meetings						
	Units	No of Units	Hours/ Unit	Total Hours	Comments	
Roadway Analysis	EA	2	3	6	Includes preparation, attendance. Misc. meetings	
Drainage	EA	2	3	6	Includes preparation, attendance. Misc. meetings	
Utilities	EA	0	0	0	Included in Original Fee	
Environmental	EA	0	0	0		
Structures	EA	0	0	0		
Signing & Pavement Marking	EA	0	0	0		
Signalization	EA	0	0	0		
Lighting	EA	0	0	0		
Landscape Architecture	EA	0	0	0		
Survey	EA	0	0	0		
Photogrammetry	EA	0	0	0		
ROW & Mapping	EA	0	0	0		
Terrestrial Mobile LIDAR	EA	0	0	0		
Architecture	EA	0	0	0		
Noise Barriers	EA	0	0	0		
ITS Analysis	EA	0	0	0		
Geotechnical	EA	0	0	0		
Progress Meetings	EA	0	0	0	Included in Original Fee	
Phase Reviews	EA	0	0	0		
Field Reviews	EA	0	0	0		
Total Project Manager Meetings				12	Total PMI Meeting Hours carries to Task 3.6 above	

Notes:

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 agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

4. Roadway Analysis

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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	0	0	N/A- Per Clay County
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	0	0	Included in Original Fee
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal /Vertical Master Design Files	LS	1	36	36	CR 209 from 750' of US 17 west to US 17. Include revisions associated with layout to tie to FDOT proposed layout.)(36 hrs)
4.6	Access Management	LS	1	0	0	Included in Original Fee
4.7	Roundabout Evaluation	LS	1	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	1	0	0	In LA
4.9	Cross Section Design Files	LS	1	12	12	CR 209 from 750' of US 17 west to US 17. Revisions associated with layout to tie to FDOT proposed layout.)(16 hrs)
4.10	Temporary Traffic Control Plan Analysis	LS	1	15	15	CR 209 from 750' of US 17 west to US 17. Revisions associated with layout to tie to FDOT proposed layout.)(15 hrs)
4.11	Master TTCF Design Files	LS	1	24	24	CR 209 from 750' of US 17 west to US 17. Revisions associated with layout to tie to FDOT proposed layout.)3 Phase MOT Scheme (8*3) Total 24 hrs
4.12a	Selective Clearing and Grubbing of Existing Vegetation/Field Assessment	LS	1	0	0	N/A

4. Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A
4.13	Tree Disposition Plan	LS	1	0	0	N/A
4.14	Design Variations and Exceptions	LS	1	0	0	N/A
4.15	Design Report	LS	1	4	4	Revise Roadway Design Report- Add autoturn analysis
4.16	Quantities	LS	1	4	4	Revise Quantities - (4 hours)
4.17	Cost Estimate	LS	1	1	1	Revise Cost Estimate
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	Included in Original Fee
4.19	Other Roadway Analyses	LS	1	0	0	
Roadway Analysis Technical Subtotal					96	

4. Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	0	0	Included in AM2
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	6	6	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	5	5% Max
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	5	5% Max
Roadway Analysis Nontechnical Subtotal						
		LS	%	3%	3	
4. Roadway Analysis Total						115

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	1	3	3	meeting with contractor	yes	1
30/60/90 Comment Review Meetings	EA	1	3	3	90 only	yes	1
Other Meetings	EA	0	0	0			0
Subtotal Technical Meetings						Subtotal Project Manager Meetings	2
Progress Meetings (if required by FDOT)						PM attendance at Progress Meetings is manually entered on General Task 3	
Phase Review Meetings						PM attendance at Phase Review Meetings is manually entered on General Task 3	
Total Meetings						Total Project Manager Meetings (carries to Tab 3)	
	EA	0	0	0			--
	EA	0	0	0			--
6						2	

Carries to Tab 3

Carries to 4.17

Estimator: Mike Roland

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	1	0	0	Included in AM2
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	0	0	Included in AM2
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	2	7	14	1 Typical Sections to be modified. 1 @ 4 hours = 4 1 Typical Sections to be added. 1 @ hours 10 = 10 Total 14 hours
5.3.2	Typical Section Details		EA	1	12	12	Overbuild Details
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	0
5.5	Summary of Quantities Sheets		Sheet	0	0	0	Cost Reimbursable tab
5.6	Project Layout		Sheet	1	0	0	
5.7	Plan/Profile Sheet		Sheet	2	4	8	CR 209 at US 17. 2 Sheets 2* 4 = 8
5.8	Profile Sheet		Sheet	0	0	0	N/A
5.9	Plan Sheet		Sheet	0	0	0	N/A
5.10	Special Profile		Sheet	1	16	16	Revise Curb Return and Driveway Profiles = 8 @ 2 hours each 16 hours
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.14	Intersection Layout Details		Sheet	0	0	0	N/A
5.15	Special Details		EA	0	0	0	N/A

5. Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	N/A
5.17	Roadway Soil Survey Sheet(s)		Sheet	1	0	0	No Change
5.18	Cross Sections		EA	24	0.35	8	750' at 50' sections = 15 sections + 9 driveway sections = 24 * .35 per section = 8 hours
5.19	Temporary Traffic Control Plan Sheets		Sheet	2	12	24	2 sheets @ 3 phases = 6 sheets @ 4 hours a sheet = 24 hours
5.20	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.21	Temporary Traffic Control Detail Sheets		Sheet	2	4	8	Revise 1 phase notes and general notes & 1 typical section = 2 sheets @ 4 hours per sheet = 8 hours
5.22	Utility Adjustment Sheets		Sheet	0	0	0	No change
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	N/A
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.25	Project Control Sheet(s)		Sheet	2	0	0	No Change
5.26	Environmental Detail Sheets		Sheet	0	0	0	N/A
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	1	0	0	No change
Roadway Plans Technical Subtotal						90	
5.28	Quality Assurance/Quality Control		LS	%	5%	5	
5.29	Supervision		LS	%	5%	5	
5. Roadway Plans Total						100	

Estimator:

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	0	0	0	N/A - drainage areas revised due to typical section and alignment changes incorporated in design items below.
6a.2	Base Clearance Calculations	Per Location	0	0	0	No Change
6a.3	Pond Siting Analysis and Report	Per Basin	0	0	0	By Owners Rep
6a.4	Design of Cross Drains	EA	1	0	0	No change from AM2
6a.5	Design of Ditches	Per Ditch Mile	1	0	0	No change from AM2
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	1	8	8	Check Drainage pond for additional areas.
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	N/A
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	0	0	0	No Flood Plain Impacts
6a.9	Design of Storm Drains	EA	10	2.00	20	System at US 17 = 10 structures @ 2 hours each
6a.10	Optional Culvert Material	EA	10	0.1	1	Structures 10 new structures
6a.11	French Drain Systems	Per Cell	0	0	0	N/A
6a.11.a	Existing French Drain Systems	Per Cell	0	0	0	N/A
6a.12	Drainage Wells	EA	0	0	0	N/A

6a. Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.13	Drainage Design Documentation Report	LS	1	8	8	Incorporate revisions to reflect US 17 changes, 8 hours
6a.14	Bridge Hydraulic Report	EA	0	0	0	N/A
6a.15	Temporary Drainage Analysis	LS	1	4	4	US 17 area = 4 hours
6a.16	Cost Estimate	LS	1	0	0	In Roadway Cost Estimate
6a.17	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	N/A
6a.18	Hydroplaning Analysis	LS	1	0	0	N/A- Per Clay County
6a.19	Existing Permit Analysis	LS	0	0	0	No Change
6a.20	Other Drainage Analysis	LS	1	4	4	Review Pond Liner Recommendation and revise plans to incorporated recommendation.
6a.21	Noise Barrier Evaluation	LS	1	0	0	N/A
Drainage Analysis Technical Subtotal					45	
6a.22	Field Reviews	LS	1	0	0	Included in Original
6a.23	Technical Meetings	LS	1	6	6	Meetings are listed below
6a.24	Environmental Look-Around (ELA) Meeting	LS	1	0	0	N/A
6a.25	Quality Assurance/Quality Control	LS	%	5%	3	
6a.26	Independent Peer Review	LS	%	0%	0	
6a.27	Supervision	LS	%	5%	3	
Drainage Analysis Nontechnical Subtotal					12	
6a.28	Coordination	LS	%	3%	2	
6a. Drainage Analysis Total					59	

6a. Drainage Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
	Base Clearance Water Elevation	EA	0	0	0	
	Pond Siting	EA	0	0	0	
	Agency	EA	0	0	0	
	Local Governments (cities, counties)	EA	0	0	0	
	FDOT Drainage	EA	0	0	0	
	Other Meetings	EA	2	3	6	Meetings to discuss US 17 drainage
	Subtotal Technical Meetings				6	
	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				6	Total Project Manager Meetings (carries to Tab 3)
						2

Carries to 6.19

Carries to Tab 3

Estimator:

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	1	8	8	Add areas at US 17
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	N/A
6b.3	Summary of Drainage Structures		Sheet	1	4	4	Added structures = 4 hours
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	No Change
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	10	2	20	Added 10 new structures x 2 hrs = 20 hrs
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	0	0	0	No Change
6b.7	Lateral Ditch Plan/Profile		Sheet	0	0	0	No Change
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	No Change
6b.9	Retention/Retention Ponds Detail Sheet(s)		Sheet	0	0	0	No Change
6b.10	Retention Pond Cross Sections		EA	0	0	0	No Change

6b. Drainage Plans

6b.11	Erosion Control Plan Sheet(s)		Sheet	2	4	8	2 sheets at US 17	
6b.12	SWPPP Sheet(s)		Sheet	1	2	2	Revisions to language based on impacted areas needed.	
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	

8. Env. Permits and Clearances

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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
Environmental Permits and Environmental Clearances						
8.1	Preliminary Project Research	LS	1	0	0	By Owners Rep
Permits						
Field Work						
8.2.1	Pond Site Alternatives	per pond site	0	0	0	By Owners Rep
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	By Owners Rep
8.2.3	Species Surveys	LS	1	0	0	By Owners Rep
8.3	Agency Verification of Wetland Data	LS	1	0	0	By Owners Rep
Complete And Submit All Required Permit Applications						
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	0	0	in AM2
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	No Change
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	24	24	Modify sheets , Estimated 2 sheets at 12 hours per sheet
8.6	Prepare USCG Permit Application	LS	1	0	0	N/A
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	1	0	0	By Owners Rep
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	N/A
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	1	0	0	N/A
8.10	Compensatory Mitigation Plan	LS	1	0	0	N/A
8.11	Mitigation Coordination and Meetings	LS	1	0	0	N/A
8.12	Other Environmental Permits	LS	1	0	0	N/A
Environmental Clearances/Reevaluations						
Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)						
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	By Owners Rep
8.13.2	Archaeological and Historical Resources	LS	1	0	0	By Owners Rep
8.13.3	Wetland Impact Analysis	LS	1	0	0	By Owners Rep

8. Env. Permits and Clearances

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
8.13.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	By Owners Rep
8.13.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	By Owners Rep
8.14	Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	By Owners Rep
8.14.2	Archaeological and Historical Resources	LS	1	0	0	By Owners Rep
8.14.3	Wetland Impact Analysis	LS	1	0	0	By Owners Rep
8.14.4	Essential Fish Habitat Impact Analysis	LS	1	0	0	By Owners Rep
8.14.5	Protected Species and Habitat Impact Analysis	LS	1	0	0	By Owners Rep
8.15	Contamination Impact Analysis	LS	1	0	0	By Owners Rep
8.16	Asbestos Survey	LS	1	0	0	By Owners Rep
Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal					24	
8.17	Technical Meetings	LS	1	0	0	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	1	
8.19	Supervision	LS	%	5%	1	
Environmental Permits and Environmental Clearances Nontechnical Subtotal					2	
8.20	Coordination	LS	%	3%	1	
8. Environmental Permits and Environmental Clearances Total					27	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0	Meetings in Drainage Analysis		0
NMFS	EA	0	0	0			0
USACE	EA	0	0	0			0
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	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)				0		PM attendance at Progress Meetings is manually entered on General Task 3	--
Phase Review Meetings				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 8.18

Carries to Tab 3

19. Signing & Marking Analysis

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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	N/A
19.2	No Passing Zone Study	LS	1	0	0	Not in scope
19.3	Reference and Master Design File	LS	1	24	24	CR 209 from 750' of US 17 west to US 17. Revisions associated with layout to tie to FDOT proposed layout.)(24 hrs)
19.4	Multi-Post Sign Support Calculations	EA	0	0	0	N/A
19.5	Sign Panel Design Analysis	EA	0	0	0	N/A
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	N/A
19.7	Quantities	LS	1	4	4	2 hrs per plan sheet 2 plan sheets per Roadway
19.8	Cost Estimate	LS	1	1	1	Develop Cost Estimates from Quantities (1 hours each *1)
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	1	0	0	N/A
Signing and Pavement Marking Analysis Technical Subtotal				29		
19.11	Field Reviews	LS	1	0	0	No change
19.12	Technical Meetings	LS	1	0	0	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	1	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	1	
Signing and Pavement Marking Analysis Nontechnical Subtotal				2		
19.16	Coordination	LS	%	3%	1	
19. Signing and Pavement Marking Analysis Total				32		

19. Signing & Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		Number
						Comments	PM Attendance at Meeting Required?	
	Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours			
	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	1	0	0		no	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

20. Signing & Marking Plans

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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	No change
20.2	Summary of Pay Items Including Input		LS	1	0		0	In Rdwy set
20.3	Tabulation of Quantities		Sheet	1	0	0	0	N/A
20.4	General Notes/Pay Item Notes		Sheet	1	0	1	0	No change
20.5	Project Layout		Sheet	0	0	0	0	N/A
20.6	Plan Sheet		Sheet	2	2	2	4	2 sheets * 2 hours per sheet = 4 hours
20.7	Typical Details		EA	0	0		0	N/A
20.8	Guide Sign Worksheet(s)		EA	0	0		0	N/A
20.9	Traffic Monitoring Site		EA	0	0		0	N/A
20.10	Cross Sections		EA	0	0		0	N/A
20.11	Special Service Point Details		EA	0	0		0	N/A
20.12	Special Details		LS	1	0		0	N/A
20.13	Interim Standards		LS	1	0		0	N/A
Signing and Pavement Marking Plans Technical Subtotal						3	4	
20.14	Quality Assurance/Quality Control		LS	%	5%		1	
20.15	Supervision		LS	%	5%		1	
20. Signing and Pavement Marking Plans Total						3	6	

21. Signalization Analysis

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
21.1	Traffic Data Collection	LS	1	0	0	No Change
21.2	Traffic Data Analysis	PI	1	0	0	No Change
21.3	Signal Warrant Study	LS	1	0	0	N/A
21.4	System Timings	LS	1	0	0	Existing timings to remain
21.5	Reference and Master Signalization Design File	PI	1	8	8	Develop master layout for US 17 and add loops at US 17 Intersection on CR 209 Total = 8 hours
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	N/A
21.7	Overhead Street Name Sign Design	EA	0	0	0	N/A
21.8	Pole Elevation Analysis	LS	1	0	0	N/A
21.9	Traffic Signal Operation Report	LS	1	0	0	N/A
21.10	Quantities	LS	1	2	2	1 Intersection Revise = 2 hours.
21.11	Cost Estimate	LS	1	1	1	Add loops at US 17 intersection on CR 209 Total = 1 hours
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	No change
21.13	Other Signalization Analysis	LS	1	0	0	N/A
		Signalization Analysis Technical Subtotal		11		
21.14	Field Reviews	LS	1	0	0	No change
21.15	Technical Meetings	LS	1	0	0	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	1	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	1	
		Signalization Analysis Nontechnical Subtotal		2		

21.19	Coordination	LS	%	3%	0	0	
21. Signalization Analysis Total							13
Technical Meetings							
	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	1	0	0			0
Maintaining Agency (cities, counties)	EA	0	0	0			0
Railroads	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 21.1.5

Carries to Tab 3

22. Signalization Plans

Estimator: Mike Roland

LS CR 209 - Add US 17 tie and Pond Lining
N/A

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	
22.1	Key Sheet		Sheet	0	0	0	0	In AM2	
22.2	Summary of Pay Items Including Designer Interface Input		Sheet	0	0	0	0	In Rdwy set	
22.3	Tabulation of Quantities		Sheet	1	0	0	0	0	
22.4	General Notes/Pay Item Notes		Sheet	1	0	0	0	No Change	
22.5	Plan Sheet		Sheet	1	4	1	4	1 new sheet * 4 hours per sheet = 4 hours	
22.6	Interconnect Plans		Sheet	0	0	0	0	N/A - Assume existing to remain.	
22.7	Traffic Monitoring Site		EA	0	0	0	0	N/A	
22.8	Guide Sign Worksheet		EA	0	0	0	0	N/A	
22.9	Special Details		Sheet	0	0	0	0	No Change	
22.10	Special Service Point Details		EA	0	0	0	0	Assume existing to remain.	
22.11	Mast Arm/Monotube Tabulation Sheet		PI	0	0	0	0	N/A	
22.12	Strain Pole Schedule		PI	0	0	0	0	Assume existing to remain.	
22.13	TTCP Signal		EA	1	12	1	12	1 intersection 3 phases 4 hours each = 12 hours Revise heads as needed.	
22.14	Temporary Detection Sheet		PI	1	4	1	4	Tempory MOT Detection	
22.15	Utility Conflict Sheet		Sheet	0	0	0	0	N/A	
22.16	Interim Standards		LS	1	0	0	0	N/A	
Signalization Plans Technical Subtotal							1	20	
22.17	Quality Assurance/Quality Control		LS	%	5%	1	1		
22.18	Supervision		LS	%	5%	1	1		
22. Signalization Plans Total							1	22	