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sawgrassllc.com

February 16, 2022

Honorable Mayor Hellmich  
City of Foley  
P.O. Box 1750  
Foley, Alabama 36535

**RE: Wolf Bay Drive Extension**

Dear Honorable Mayor Hellmich,

Sawgrass Consulting, LLC, (Sawgrass) has been asked to provide a proposal for survey and design services for a for the Wolf Bay Drive Extension for the City of Foley. Our scope provides the professional services for wetland determinations and permitting, field survey, Right of Way Map, hydraulic study/analysis, structural design, plan development, Geotechnical Services. The project scope includes approximately 1 mile of new Roadway, one structure crossing of a drainage way, multiple roadway pipe crossings, and two intersection improvements. Included you will find an Attachment A; Scope of Services and corresponding fees required to accomplish this project. In summary, the following cost for the project is as follows:

|                                                |                     |
|------------------------------------------------|---------------------|
| <b>Field Survey and ROW Mapping</b>            | <b>\$28,000.00</b>  |
| <b>Roadway Design/Route Planning</b>           | <b>\$133,500.00</b> |
| <b>Structure Design/Hydraulic Study</b>        | <b>\$48,000.00</b>  |
| <b>Environmental Permitting</b>                | <b>\$14,700.00</b>  |
| <b>Preliminary Investigation and Testing -</b> | <b>\$9,725.00</b>   |

*~We anticipate the project construction cost between \$2,100,000.00 and \$2,400,000.00, excluding Utility Relocations, R/W Acquisitions, Mitigation Cost and Permit Fees*

We appreciate the opportunity to partner with the City on this Project and please do not hesitate to call if you have any questions or need to discuss this Proposal in more detail.

Sincerely,

Stephen Delahunty, P.E.  
Vice President

**Approval  
Date**

\_\_\_\_\_  
\_\_\_\_\_

Enclosures

Cc: Mr. Chad Christian, PE, City of Foley Engineer  
Mr. Taylor Davis, PE, City of Foley Assistant Engineer

## **Scope of Services**

### **Topographic Survey**

A topographic survey of the of the corridor will be performed to accomplish the design and plan development of the new roadway. We will also gather topographic information for cross sections, drainage crossings, and all features to the connected ROW locations for intersections, and other utilities for features to help aid in the design. The survey will develop a topographic map of the site at 1-foot contour intervals.

### **Right of Way Map**

Sawgrass will provide a Right of Way Map, Legal Descriptions for Right of Way Acquisitions, Legal Descriptions for Drainage Easements and Temporary Construction Easements to be approved and executed for recording. This work will be required to establish an 80 foot Right of Way for the design and construction of the new roadway.

### **Structure Design/Hydraulic Study**

Sawgrass anticipates design of a drainage culvert/bridge structure at the main channel crossing located at the eastern end of the new roadway. The type, size, and elevation of the structure will be determined upon the final hydraulic study of the drainage basin and the topographic profile of the crossing.

### **Plan Development**

Sawgrass will provide a roadway plan set to include typical section(s) for an 28-30 foot Pavement Width (12' Travel Lanes and one (1) Bike Lane), Stationing plan and profile, drainage sections and profiles, structural plans, striping plan, summary of quantities and erosion control plan for the project. We will also provide an intersection improvement plans at the commencement of the roadway and Wolf Bay Drive Extension. This will likely include drainage collection/conveyance and utility relocation and design for the new road transition. The plans will also incorporate the recommendations from the Geotechnical Consultant to assure the final build-up meets the Design and Construction Standards for the City of Foley, Alabama.

### **Bid Document Preparation and Bidding Assistance**

Sawgrass will provide bid/contract documents for the procurement phase of the project. These documents will include additive alternates if the City of Foley chooses to separate contractual obligations for budgetary reasons. We will coordinate the advertisement for bidders, hold a pre-bid conference, perform the bid letting and issue a certified bid tab for recommendation to award. Multiple sets of plans and bid documents will be prepared and distributed to all interested vendors.

## **Environmental Permitting**

*Environmental Permitting* – Wetland Sciences (Environmental Consultant) will provide field delineation and determinations of wetland areas throughout the described corridor, prepare permitting documents for Corp of Engineer Nation Wide Permits of roadway impacts and/or individual permits for Structures (if Required), and conduct Historical/Archaeological Investigation and Concurrence (if Required) to allow for the construction of the new roadway. Because the proposed roadway is located within an unnamed tributary that leads to the Protected Watershed of Wolf Bay, it is anticipated that a Construction Best Management Practices Plan (CBMPP) will be required for the application of the Notice of Intent (NOI) General Permit.

## **Geotechnical Services**

*Preliminary Soils Report and Construction Testing* –GeoCon Engineering (Geotechnical Consultant) will provide field borings at 300 Lf intervals for recommendations for the buildup on the new roadway and aid in the foundation design of any bridge structure. In addition, they will recommend any minimum slope requirements for the approach roadway and recognition of any unsuitable soils that will require mitigation.

## **Attachment A**

### **Compensation**

Sawgrass will perform the scope of services described herein for the following fees:

|                    |                      |
|--------------------|----------------------|
| Topographic Survey | \$19,500.00 Lump Sum |
|--------------------|----------------------|

|                            |                     |
|----------------------------|---------------------|
| ROW Map/Legal Descriptions | \$8,500.00 Lump Sum |
|----------------------------|---------------------|

|                                  |                      |
|----------------------------------|----------------------|
| Structure Design/Hydraulic Study | \$48,000.00 Lump Sum |
|----------------------------------|----------------------|

|                               |                       |
|-------------------------------|-----------------------|
| Roadway Design/Route Planning | \$128,700.00 Lump Sum |
|-------------------------------|-----------------------|

|                                   |                     |
|-----------------------------------|---------------------|
| Bidding Assistance/Specifications | \$4,800.00 Lump Sum |
|-----------------------------------|---------------------|

#### **Environmental Services**

|                            |                       |
|----------------------------|-----------------------|
| Wetland Delineation        | \$3,500.00 Lump Sum   |
| Corp of Engineer Permit(s) | \$4,500.00 Hourly-NTE |
| Historical Concurrence     | \$2,500.00 Lump Sum   |
| CBMPP/NOI                  | \$4,200.00 Lump Sum   |

#### **Geotechnical Services**

|                          |                     |
|--------------------------|---------------------|
| Preliminary Soils Report | \$9,725.00 Lump Sum |
|--------------------------|---------------------|

Owner: City of Foley  
 Project: Wolf Bay Road Extension  
 Date: 2/15/2022

Construction Cost Budget Estimate - Route A (4700 LF)



**Wolf Bay Extension**

| ITEM # | DESCRIPTION                                                                   | UNIT | QTY   |                         |                        |
|--------|-------------------------------------------------------------------------------|------|-------|-------------------------|------------------------|
| 201-A  | CLEARING AND GRUBBING                                                         | ACRE | 10    | \$ 8,000.00             | \$ 80,000.00           |
| 206-C  | REMOVE ASPHALT                                                                | SY   | 300   | \$ 8.00                 | \$ 2,400.00            |
| 206-D  | FENCE REMOVALS                                                                | LF   | 500   | \$ 6.00                 | \$ 3,000.00            |
| 206-E  | REMOVAL OF STRUCTURES                                                         | EA   | 4     | \$ 500.00               | \$ 2,000.00            |
| 210-A  | UNCLASSIFIED EXCAVATION                                                       | CY   | 17000 | \$ 7.00                 | \$ 119,000.00          |
| 210-D  | BORROW EXCAVATION                                                             | CY   | 15000 | \$ 18.00                | \$ 270,000.00          |
| 214-A  | STRUCTURE EXCAVATION                                                          | CY   | 120   | \$ 40.00                | \$ 4,800.00            |
| 214-B  | FOUNDATION BACKFILL                                                           | CY   | 150   | \$ 60.00                | \$ 9,000.00            |
| 230-A  | ROADBED PROCESSING                                                            | STA  | 50    | \$ 450.00               | \$ 22,500.00           |
| 301-A  | CRUSHED AGGREGATE BASE COURSE, 6" THICK                                       | SY   | 15666 | \$ 24.00                | \$ 375,984.00          |
| 401-A  | BIT. PRIME TREATMENT                                                          | SY   | 15666 | \$ 0.75                 | \$ 11,749.50           |
| 405-A  | TACK COAT, 0.075 GAL/SY                                                       | GAL  | 600   | \$ 5.50                 | \$ 3,300.00            |
| 429-A  | BIT.CONC. WEARING SURFACE LAYER<br>1/2" MAX AGG SIZE, ESAL RANGE B, 165 LB/SY | TON  | 1300  | \$ 98.00                | \$ 127,400.00          |
| 429-B1 | BIT. CONCRETE BINDER LAYER, 3/4" MAX AGGREGATE SIZE, ESAL RANGE B, 220 LB/SY  | TON  | 1725  | \$ 95.00                | \$ 163,875.00          |
| 430-B  | AGGREGATE SURFACING, #467 or #57                                              | TON  | 200   | \$ 65.00                | \$ 13,000.00           |
| 530-A1 | 24" RCP ROADWAY PIPE                                                          | LF   | 200   | \$ 65.00                | \$ 13,000.00           |
| 530-A2 | 30" RCP ROADWAY PIPE                                                          | LF   | 80    | \$ 75.00                | \$ 6,000.00            |
| 533-A  | 24" RCP STORM PIPE                                                            | LF   | 150   | \$ 65.00                | \$ 9,750.00            |
| 600-A  | MOBILIZATION                                                                  | LS   | 1     | \$ 75,000.00            | \$ 75,000.00           |
| 608-A  | BIAXIAL GEOGRID (TENSAR or EQUAL)                                             | SY   | 2500  | \$ 12.00                | \$ 30,000.00           |
| 610-A  | RIP-RAP, CLASS 2, 18" THICK                                                   | SY   | 300   | \$ 80.00                | \$ 24,000.00           |
| 610-D  | FILTER FABRIC, NON WOVEN                                                      | SY   | 350   | \$ 4.00                 | \$ 1,400.00            |
| 619-A  | 24" PIPE END TREATMENT                                                        | EA   | 8     | \$ 1,500.00             | \$ 12,000.00           |
| 619-A2 | 30" PIPE END TREATMENT                                                        | EA   | 2     | \$ 1,600.00             | \$ 3,200.00            |
| 620-A  | MINOR STRUCTURE CONCRETE                                                      | CY   | 10    | \$ 500.00               | \$ 5,000.00            |
| 621-A  | JUNCTION BOX                                                                  | EA   | 2     | \$ 4,500.00             | \$ 9,000.00            |
| 620-C  | INLET TYPE WEIR                                                               | EA   | 2     | \$ 4,500.00             | \$ 9,000.00            |
| 623-C  | COMBINATION CURB AND GUTTER                                                   | LF   | 1,600 | \$ 24.00                | \$ 38,400.00           |
| 630-A  | STEEL BEAM GUARDRAIL, CL A. TYPE 2                                            | LF   | 240   | \$ 35.00                | \$ 8,400.00            |
| 630-C  | GUARDRAIL END ANCHOR, TYPE 20                                                 | EA   | 4     | \$ 3,700.00             | \$ 14,800.00           |
| 650-B  | TOPSOIL, 4" THICK (From Stockpiles)                                           | CY   | 4800  | \$ 12.00                | \$ 57,600.00           |
| 652-A  | SEEDING, SEASONAL                                                             | ACRE | 6     | \$ 1,500.00             | \$ 9,000.00            |
| 654-A  | SOLID SODDING                                                                 | SY   | 6500  | \$ 7.00                 | \$ 45,500.00           |
| 656-A  | MULCHING                                                                      | ACRE | 6     | \$ 1,500.00             | \$ 9,000.00            |
| 659-C  | ROLLED EROSION CONTROL                                                        | SY   | 2000  | \$ 4.50                 | \$ 9,000.00            |
| 665-A  | TEMPORARY SEEDING                                                             | ACRE | 12    | \$ 1,100.00             | \$ 13,200.00           |
| 665-B  | TEMPORARY MULCHING                                                            | ACRE | 12    | \$ 1,100.00             | \$ 13,200.00           |
| 665-I  | TEMPORARY RIP RAP (VARIES)                                                    | TON  | 250   | \$ 65.00                | \$ 16,250.00           |
| 665-J  | SILT FENCING, TYPE A                                                          | LF   | 12000 | \$ 6.50                 | \$ 78,000.00           |
| 665-Q  | WATTLES                                                                       | LF   | 500   | \$ 8.00                 | \$ 4,000.00            |
| 701-G  | SOLID YELLOW TRAFFIC STRIPE (DOUBLE), CLASS 2, TYPE A                         | MILE | 2.00  | \$ 5,500.00             | \$ 11,000.00           |
| 701-G  | SOLID WHITE TRAFFIC STRIPE, CLASS 2, TYPE A                                   | MILE | 2.00  | \$ 5,500.00             | \$ 11,000.00           |
| 703-A  | TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (WHITE)                             | SF   | 1000  | \$ 6.00                 | \$ 6,000.00            |
| 710-A  | ROADWAY SIGNS, INCLUDE POST                                                   | SF   | 300   | \$ 30.00                | \$ 9,000.00            |
| 705-A  | PAVEMENT MARKERS, CLASS A, TYPE 2D                                            | EA   | 300   | \$ 5.50                 | \$ 1,650.00            |
| 740-A  | TRAFFIC CONTROL SCHEME                                                        | LS   | 1     | \$ 23,000.00            | \$ 23,000.00           |
| 999-A  | TEMPORARY DEWATERING/PUMPING                                                  | LS   | 1     | \$ 20,000.00            | \$ 20,000.00           |
| 999-B  | BRIDGE/CULVERT STRUCTURE                                                      | EA   | 1     | \$ 350,000.00           | \$ 350,000.00          |
|        |                                                                               |      |       | <b>SUBTOTAL</b>         | <b>\$ 2,153,358.50</b> |
|        |                                                                               |      |       | <b>CONTINGENCY- 10%</b> | <b>\$ 215,335.85</b>   |
|        |                                                                               |      |       | <b>TOTAL AMOUNT</b>     | <b>\$ 2,368,694.35</b> |

Owner: City of Foley  
 Project: Wolf Bay Road Extension  
 Date: 2/15/2022

Construction Cost Budget Estimate - Route B (3740 LF)



Wolf Bay Extension

| ITEM #                  | DESCRIPTION                                                                     | UNIT | QTY   |               |                        |
|-------------------------|---------------------------------------------------------------------------------|------|-------|---------------|------------------------|
| 201-A                   | CLEARING AND GRUBBING                                                           | ACRE | 8     | \$ 8,000.00   | \$ 64,000.00           |
| 206-C                   | REMOVE ASPHALT                                                                  | SY   | 300   | \$ 8.00       | \$ 2,400.00            |
| 206-D                   | FENCE REMOVALS                                                                  | LF   | 500   | \$ 6.00       | \$ 3,000.00            |
| 206-E                   | REMOVAL OF STRUCTURES                                                           | EA   | 4     | \$ 500.00     | \$ 2,000.00            |
| 210-A                   | UNCLASSIFIED EXCAVATION                                                         | CY   | 13051 | \$ 7.00       | \$ 91,357.00           |
| 210-D                   | BORROW EXCAVATION                                                               | CY   | 13181 | \$ 18.00      | \$ 237,258.00          |
| 214-A                   | STRUCTURE EXCAVATION                                                            | CY   | 120   | \$ 40.00      | \$ 4,800.00            |
| 214-B                   | FOUNDATION BACKFILL                                                             | CY   | 150   | \$ 60.00      | \$ 9,000.00            |
| 230-A                   | ROADBED PROCESSING                                                              | STA  | 40    | \$ 450.00     | \$ 18,000.00           |
| 301-A                   | CRUSHED AGGREGATE BASE COURSE, 6" THICK                                         | SY   | 12470 | \$ 24.00      | \$ 299,280.00          |
| 401-A                   | BIT. PRIME TREATMENT                                                            | SY   | 12470 | \$ 0.75       | \$ 9,352.50            |
| 405-A                   | TACK COAT, 0.075 GAL/SY                                                         | GAL  | 400   | \$ 5.50       | \$ 2,200.00            |
| 429-A                   | BIT. CONC. WEARING SURFACE LAYER<br>1/2" MAX AGG SIZE, ESAL RANGE B, 165 LB/SY  | TON  | 1030  | \$ 98.00      | \$ 100,940.00          |
| 429-B1                  | BIT. CONCRETE BINDER LAYER, 3/4"<br>MAX AGGREGATE SIZE, ESAL RANGE B, 220 LB/SY | TON  | 1375  | \$ 95.00      | \$ 130,625.00          |
| 430-B                   | AGGREGATE SURFACING, #467 or #57                                                | TON  | 200   | \$ 65.00      | \$ 13,000.00           |
| 530-A1                  | 24" RCP ROADWAY PIPE                                                            | LF   | 100   | \$ 65.00      | \$ 6,500.00            |
| 530-A2                  | 30" RCP ROADWAY PIPE                                                            | LF   | 16    | \$ 75.00      | \$ 1,200.00            |
| 533-A                   | 24" RCP STORM PIPE                                                              | LF   | 150   | \$ 65.00      | \$ 9,750.00            |
| 600-A                   | MOBILIZATION                                                                    | LS   | 1     | \$ 75,000.00  | \$ 75,000.00           |
| 608-A                   | BIAXIAL GEOGRID (TENSAR or EQUAL)                                               | SY   | 2500  | \$ 12.00      | \$ 30,000.00           |
| 610-A                   | RIP-RAP, CLASS 2, 18" THICK                                                     | SY   | 300   | \$ 80.00      | \$ 24,000.00           |
| 610-D                   | FILTER CLOTH, NON WOVEN                                                         | SY   | 350   | \$ 4.00       | \$ 1,400.00            |
| 619-A                   | 24" PIPE END TREATMENT                                                          | EA   | 5     | \$ 1,500.00   | \$ 7,500.00            |
| 619-A2                  | 30" PIPE END TREATMENT                                                          | EA   | 1     | \$ 1,600.00   | \$ 1,600.00            |
| 620-A                   | MINOR STRUCTURE CONCRETE                                                        | CY   | 10    | \$ 500.00     | \$ 5,000.00            |
| 621-A                   | JUNCTION BOX                                                                    | EA   | 2     | \$ 4,500.00   | \$ 9,000.00            |
| 620-C                   | INLET TYPE WEIR                                                                 | EA   | 2     | \$ 4,500.00   | \$ 9,000.00            |
| 623-C                   | COMBINATION CURB AND GUTTER                                                     | LF   | 1,600 | \$ 24.00      | \$ 38,400.00           |
| 630-A                   | STEEL BEAM GUARDRAIL, CL A. TYPE 2                                              | LF   | 240   | \$ 35.00      | \$ 8,400.00            |
| 630-C                   | GUARDRAIL END ANCHOR, TYPE 20                                                   | EA   | 4     | \$ 3,700.00   | \$ 14,800.00           |
| 650-B                   | TOPSOIL, 4" THICK (From Stockpiles)                                             | CY   | 4000  | \$ 12.00      | \$ 48,000.00           |
| 652-A                   | SEEDING, SEASONAL                                                               | ACRE | 6     | \$ 1,500.00   | \$ 9,000.00            |
| 654-A                   | SOLID SODDING                                                                   | SY   | 5500  | \$ 7.00       | \$ 38,500.00           |
| 656-A                   | MULCHING                                                                        | ACRE | 6     | \$ 1,500.00   | \$ 9,000.00            |
| 659-C                   | ROLLED EROSION CONTROL                                                          | SY   | 2000  | \$ 4.50       | \$ 9,000.00            |
| 665-A                   | TEMPORARY SEEDING                                                               | ACRE | 12    | \$ 1,100.00   | \$ 13,200.00           |
| 665-B                   | TEMPORARY MULCHING                                                              | ACRE | 12    | \$ 1,100.00   | \$ 13,200.00           |
| 665-I                   | TEMPORARY RIP RAP (VARIES)                                                      | TON  | 250   | \$ 65.00      | \$ 16,250.00           |
| 665-J                   | SILT FENCING, TYPE A                                                            | LF   | 10000 | \$ 6.50       | \$ 65,000.00           |
| 665-Q                   | WATTLES                                                                         | LF   | 500   | \$ 8.00       | \$ 4,000.00            |
| 701-G                   | SOLID YELLOW TRAFFIC STRIPE (DOUBLE), CLASS 2, TYPE A                           | MILE | 2.00  | \$ 5,500.00   | \$ 11,000.00           |
| 701-G                   | SOLID WHITE TRAFFIC STRIPE, CLASS 2, TYPE A                                     | MILE | 2.00  | \$ 5,500.00   | \$ 11,000.00           |
| 703-A                   | TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (WHITE)                               | SF   | 900   | \$ 6.00       | \$ 5,400.00            |
| 710-A                   | ROADWAY SIGNS, INCLUDE POST                                                     | SF   | 300   | \$ 30.00      | \$ 9,000.00            |
| 705-A                   | PAVEMENT MARKERS, CLASS A, TYPE 2D                                              | EA   | 300   | \$ 5.50       | \$ 1,650.00            |
| 740-A                   | TRAFFIC CONTROL SCHEME                                                          | LS   | 1     | \$ 23,000.00  | \$ 23,000.00           |
| 999-A                   | TEMPORARY DEWATERING/PUMPING                                                    | LS   | 1     | \$ 20,000.00  | \$ 20,000.00           |
| 999-B                   | BRIDGE/CULVERT STRUCTURE                                                        | EA   | 1     | \$ 350,000.00 | \$ 350,000.00          |
| <b>SUBTOTAL</b>         |                                                                                 |      |       |               | <b>\$ 1,884,962.50</b> |
| <b>CONTINGENCY- 10%</b> |                                                                                 |      |       |               | <b>\$ 188,496.25</b>   |
| <b>TOTAL AMOUNT</b>     |                                                                                 |      |       |               | <b>\$ 2,073,458.75</b> |