





August 3, 2011

Mr. Scott Cottrell  
Sumter County Public Works  
310 Anderson Avenue  
Bushnell, Florida 33513

Re: Proposal for Professional Engineering Services  
Resurface and Widening for CR209  
Sumter County, Florida  
AMEC Project No. 600087

Dear Scott:

Sumter County (County) has requested AMEC to provide professional engineering services to prepare design plans for resurfacing and widening CR 209 from CR 462 north for approximately 2 miles to CR 214. The existing road is approximately 18-20 feet in width, and the proposed road will be designed with two 11-foot wide travel lanes and 2-foot wide stabilized shoulders. A geotechnical investigation of the project area shows that the existing pavement is <1.0 to 3.5 inches in thickness, and is underlain by 3-6 inches of clayey material. The County desires full-depth reclamation of the existing asphalt to form new sub base for adding 10 inches of base and 2 inches of asphalt. With the exception of four locations where ridges will be cut, the proposed roadway will be elevated approximated 12 inches from the existing roadway. A survey will be required at four locations for designing vertical curves to correct changes in grade. Plans will be developed using the 2006 LIDAR available from the Southwest Florida Water Management District (SWFWMD). The tasks for completing this project are described in detail below.

**Task 1      DATA COLLECTION**

**Task 1.1      Site Visit and E-Verify AMEC Employees**

AMEC will perform a visual inspection of the project site to collect photographs, and gather information pertinent to the proposed design such as: visible utilities, trees and structures.

Additionally, AMEC will E-Verify AMEC employees who are anticipated to work on this task order through the Department of Homeland Security.

AMEC  
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USA 33803  
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[www.bcieng.com](http://www.bcieng.com)

### **Task 1.2 Gather and Review Existing Data**

AMEC will gather and review available information regarding the subject site. Some of the information necessary for final design and permit support includes:

- Design standards and specifications
- Aerial photographs (current and historical)
- Topographic maps
- Available GIS mapping information – digital form

### **Task 1.3 Survey**

The following surveying services will be provided by Southeastern Surveying and Mapping, Inc.:

A specific purpose of this survey is to acquire the minimum amount of survey information to facilitate the design team to increase sight distance along CR 209 by cutting several feet from the crest of four ridges along the roadway.

1. Beginning at the intersection of CR 462 and CR 209 as Mile Marker 0.0 the four areas to the North areas follows:
  - 0.1 = Crest #1
  - 1.1 = Crest #2
  - 1.55 = Crest #3
  - 1.8 = Crest #4

#### 2. Specific Instructions:

At Crest #1 - obtain five cross sections. One (1) at the crest, and two (2) on each side of the crest. Each cross section furthest from the crest will be taken at a point in the roadway that is 3± feet vertical feet lower than the high point. Additional cross sections will be taken on both sides the crest between the high point and the 3± foot lower cross section. Cross sections will run from fence line to fence line. Centerline profiles at 50± feet will be taken from the lowest point on the South side of the crest to lowest point on the North side of the crest. This approach will be typical for all four locations.

At Crest #2 - Typical as above

At Crest's #3 & #4 - Treat these two (2) as one (1) long centerline profile with shots at 50± feet from South to North, along with 5 cross sections at each of the two (2) crests. Additional required survey at Crest's #3 & #4.

- a) At Mile 1.5 North, locate the return radius and take centerline profile East on CR 216 for 100 feet.
  - b) At Mile 1.77 North, locate asphalt drive to the West, with edge of pavement shots, plus centerline profile to 100 feet west.
3. General additional information needed:
- a) Locate railroad spike (section corner) at the intersection of CR 462 and CR 209 (0.0 miles on survey).
  - b) Roughly locate a large oak tree (5± feet) at East edge of CR 209 at Mile 0.8.
4. All survey information will be relative to the Florida State Plane Coordinate System, West Zone and NAVD'88 Vertical Datum.
5. A Point file with X, Y & Z values *only* will be provided to reduce costs.

**Task 2.0      ENGINEERING DESIGN AND PLAN DEVELOPMENT**

AMEC will prepare construction drawings for bidding. The plans will contain the following sheets:

- Cover
- Notes
- Site Plan (4 sheets)
- Profile (2 sheets)
- Details (3 sheets)

One typical section will be included on the plans. Existing driveways to be replaced will be digitized using aerial photography. Existing and proposed profile for the four surveyed areas will be shown along with details of the four vertical curves. Striping will be shown on the site plan sheets. Plans will be prepared meeting County standards and will include estimated quantities and technical specifications.

AMEC will submit plans, (two sets of 11" x 17" sheets), for County review at the 90% level. County comments will be incorporated into the Final (100%) plans, and two full size sets (signed and sealed) will be delivered to the County, along with digital copies in pdf and dwg formats.

AMEC will also provide a construction cost estimate based on the estimated quantities tabulated in the construction plans.

### **Task 3.0**      **PERMITTING**

To complete this project it will be necessary to obtain either an environmental resource permit or an exemption from permitting from the Southwest Florida Water Management District (SWFWMD). We have included time for a pre-application meeting with SWFWMD to determine if the project will be exempt from permitting. We anticipate the project will be exempt based on rule 40D4.051 (13) which states:

*The following activities are exempt from permitting under this chapter:*

*(13) Minor Roadway Safety Projects. The construction of the following minor roadway safety projects, provided that the capacity of existing swales, ditches or other stormwater management systems is not reduced; the projects are not located within wetlands or other surface waters; and the projects include best management practices during construction to prevent secondary impacts in adjacent wetlands or other surface waters due to erosion and sedimentation:*

*(a) Sidewalks adjacent to roadways that have a width of six feet or less and do not obstruct or impound surface waters;*

*(b) Turn lanes less than 0.25 mile in length and other intersection improvements; and*

*(c) Road widening and shoulder paving projects which do not result in the creation of additional traffic lanes.*

We assume no wetlands will be impacted during construction of this project; therefore the project should be exempt from permitting if the existing swale volume is not reduced under proposed conditions. The calculations, plans and necessary forms will be submitted to SWFWMD for a permit exemption. AMEC will provide the \$100 permitting fee.

If the project is not exempt from permitting we have included time to prepare a permit application to the SWFWMD. We will submit all the necessary supporting documents, and calculations. The additional permitting fee (>\$100) will be provided by the County.

### **Task 4.0**      **PROJECT BIDDING**

AMEC will assist in compiling bidding documents. The bid documents will include all drawings and the County's standard bid and contract forms. Disks containing the required documents will be provided for the bid rather than hard copies of the documents.

After advertisement of the Request for Bids, AMEC will oversee a pre-bid meeting and site visit by prospective contractors, and prepare addenda during the bidding period. We will also assist by tabulating and evaluating the bids, comparing bids to the engineer's estimate, and identifying and recommending the most responsive qualified bidders.

**Task 5.0**     **CONSTRUCTION ASSISTANCE**

AMEC has included 4 hours of project manager time to answer contractor questions during construction.

**BUDGET ESTIMATE**

The estimated budget for this project by task is as follows:

**Budget Estimate Table**

<b>Task No.</b>	<b>Description</b>	<b>Amount</b>
Task 1.1	Site Visit & E-Verify	\$ 495.92
Task 1.2	Gather and Review Existing Data	\$ 306.88
Task 1.3	Survey	\$ 1,602.44
Task 2.0	Design and Plans	\$ 12,181.28
Task 3.0	Permitting	\$ 4,593.66
Task 4.0	Project Bidding	\$ 1,876.88
Task 5.0	Construction Assistance	\$ 649.36
<b>Total</b>		<b>\$21,706.42</b>

The contract for this project will be “Time and Materials to a Maximum”. Tasks 1.1, 1.2, 1.3, and 2.0 will be billed before September 30, 2011. Tasks 3.0, 4.0, and 5.0 will be billed after September 30, 2011

Excluded Activities

The following items are not included in this proposal and are to be provided by the County; however, they can be provided by AMEC for an additional fee if required:

- Utility Coordination
- Pavement Design
- Ecological Investigations
- Wetland Delineation
- Surface water modeling
- As-built certification

### County-provided Information/Anticipated Fees

AMEC requires the following information from the County. AMEC will review and evaluate the information submitted for completeness, and request additional information from the County if required.

- Legal and institutional information;
- Permit fees greater than \$100 Construction inspection.

AMEC understands that the project must be constructed by the end of March 2012. We have prepared this project timeline as an estimate of time required to complete all tasks through construction.

### **Project Timeline**

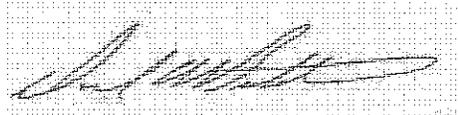
<b>Project Element</b>	<b>Estimated Duration (Days)</b>	<b>Calendar Days from NTP to Complete</b>	<b>Completion Date Based on NTP August 9, 2011</b>
Site Visit & Data Collection	2	7	August 16, 2011
Receive Survey	5	10	August 19, 2011
Deliver 90% Plans	28	38	September 16, 2011
Prepare and Submit SWFWMD Exempt	2	38	September 16, 2011
County Review	5	43	September 21, 2011
Receive SWFWMD Permit or Exemption	30	73	October 17, 2011
Deliver 100% Plans	14	80	October 24, 2011
Advertise Project	14	87	October 31, 2011
Pre-Bid Meeting	1	95	November 8, 2011
Receive Bids	1	109	November 22, 2011
Recommend Award	1	110	November 23, 2011
Pre-Construction Meeting	1	131	December 14, 2011
Construction	99	20	March 30, 2012

Thank you for the opportunity to continue our work relationship with Sumter County. Should you have any questions, you can reach me at 352-536-7126.

Sincerely,



Terry L. Dykehouse, PE  
District Manager



David W. Butcher, PE LEED AP  
Director of Civil Engineering & Water Resources

TLD: jc