



## Interoffice Memorandum

## AGENDA ITEM

April 3, 2017

TO: Mayor Teresa Jacobs  
-AND-  
Board of County Commissioners

FROM: James E. Harrison, Esq., P.E., Chairman  
Roadway Agreement Committee  
407.836.5610

SUBJECT: April 25, 2017 – Consent Item  
Supplemental Agreement Regarding Developers Agreement for Road  
And Bridge Improvements to Boggy Creek Road

The Supplemental Agreement Regarding Developers Agreement For Road And Bridge Improvements to Boggy Creek Road ("Supplemental") by and between Crockett Development Property, LLC ("Crockett") and Orange County modifies an existing agreement that provided for construction of the Boggy Creek Road widening project from Wetherbee Road to the South Access Road in two separate phases. The original Developers Agreement For Road And Bridge Improvements to Boggy Creek Road was approved by the Board of County Commissioners on November 27, 2007 and recorded at OR Book/Page 9518/1636. The Agreement was amended on September 20, 2011 in the Amendment to the Developers Agreement For Road And Bridge Improvements to Boggy Creek Road recorded at OR Book/Page 10271/6407. Phase I of the improvements to Boggy Creek Road have been completed pursuant to the original Agreement. Construction of Phase II of the improvements and the Boggy Creek Road widening project is not fully funded in the current Fiscal Year by Orange County, and is desired to be advanced.

This Supplemental Agreement establishes terms and conditions for Crockett's election to complete the construction of the road improvements and to bid and manage the construction contract. An updated budget and updated cost breakdown is included in the Supplemental Agreement. Crockett will receive transportation impact fee credits in the amount of their contribution costs of \$2,450,000 towards the Phase II improvements. Additionally, Orange County will reimburse Crockett for all work completed above their contribution amount with a limit of expenditures totaling \$600,000 in the current fiscal year. The total remaining project cost is estimated to be \$14,079,810.35, of which Crockett will contribute \$1,595,417.45 (\$2,450,000 less

Page Two

April 25, 2017 – Consent Item

Supplemental Agreement Regarding Developers Agreement for Road and Bridge Improvements to Boggy Creek Road

\$854,582.55 in costs already expended) and the County will contribute the remainder balance of \$12,484,392.90 to be funded in a future fiscal year.

The Supplemental Agreement also includes provisions for the development of access improvements to adjacent properties at no expense to the County. The Roadway Agreement Committee approved the Supplemental Agreement Regarding Developers Agreement For Road And Bridge Improvements to Boggy Creek Road on March 15, 2017.

The Specific Project Expenditure Report and Relationship Disclosure Forms are on file with the Transportation Planning Division.

**ACTION REQUESTED: Approval and execution of Supplemental Agreement Regarding Developers Agreement for Road and Bridge Improvements to Boggy Creek Road (Wetherbee Road to South Access Road) by and between Orange County and Crockett Development Property, LLC to provide for the construction of the Boggy Creek Road Widening Improvements from Wetherbee Road to the South Access Road. District 4**

Attachments

JEH|HEGB:rep

BCC Mtg. Date: April 25, 2017

Prepared By and Return To:

Sara W. Bernard, P.A.  
Broad and Cassel LLP  
Bank of America Center  
P.O. Box 4961  
Orlando, Florida 32802-4961

Tax Parcel ID No(s): 21-24-30-3127-00030

**SUPPLEMENTAL AGREEMENT REGARDING DEVELOPERS AGREEMENT  
FOR ROAD AND BRIDGE IMPROVEMENTS TO BOGGY CREEK ROAD  
(Wetherbee Road to South Access Road)**

**THIS SUPPLEMENTAL AGREEMENT REGARDING DEVELOPERS AGREEMENT FOR ROAD AND BRIDGE IMPROVEMENTS TO BOGGY CREEK ROAD (Wetherbee Road to South Access Road)** (the “**Supplemental**”), effective as of the latest date of execution (the “**Effective Date**”), is entered into by and between **ORANGE COUNTY**, a charter county and political subdivision of the State of Florida (the “**County**”) whose address is P.O. Box 1393, Orlando, Florida 32802-1393, and **CROCKETT DEVELOPMENT PROPERTY, LLC**, a Florida limited liability company (“**Crockett**” or “**CDP**”), whose address is 6900 Tavistock Lakes Boulevard, Suite 200, Orlando, Florida 32827.

**WITNESSETH:**

**WHEREAS**, Crockett remains the fee simple owner of the “Crockett Property” being more particularly described in the Original Agreement (as defined herein) less and except those certain portions described as “RW1” and “RW2” conveyed to County in that certain General Warranty Deed recorded May 19, 2010 in Official Records Book 10046, Page 4180, in the Public Records of Orange County, Florida (the “**CDP Property**”), which is part of the Airport South Planned Development (the “**Airport South PD**”);

**WHEREAS**, on November 27, 2007, the County, Crockett Development, LLC, as Crockett’s predecessor-in-interest, and Orlando Airport Park, LLC (“**OAP**”) entered into that certain Developers Agreement for Road and Bridge Improvements to Boggy Creek Road recorded November 29, 2007 in Official Records Book 9518, Page 1636 (the “**Original Agreement**”), as amended on September 20, 2011 by that certain Amendment to Developers Agreement for Road and Bridge Improvements to Boggy Creek Road (the “**Amendment to Agreement**”) by and among the County, Crockett and AMB Orlando Airport Park, LLC, as OAP’s successor-in-interest (“**AMB**” and together with Crockett referred to herein as the “**Developers**”), recorded September 22, 2011 in Official Records Book 10271, Page 6407, both in the Public Records of Orange County, Florida (collectively, the “**Agreement**”); and

**WHEREAS**, all capitalized terms used herein shall be as defined in the Agreement, unless otherwise specified herein; and

**WHEREAS**, the Original Agreement contemplates the construction of the Boggy Creek Road Improvements in two (2) separate phases for which the first phase includes one (1) of the two (2) parallel two (2) lane bridges (the “**First Phase**”) and the second phase includes the second of the two (2) parallel two (2) lane bridges and the demolition of the existing Bridge #754004 (the “**Second Phase**”), and the Amendment to Agreement contemplates the Road Widening Design (as defined therein), but neither document addresses details of the construction of the Road Widening (as defined therein); and

**WHEREAS**, the Second Phase Boggy Creek Road Improvements (including the Phase II bridge) and the Road Widening may be referred to herein collectively as the “**Improvements**”; and

**WHEREAS**, as of the Effective Date, the County acknowledges and agrees that the First Phase (including the Wetland Mitigation and the Phase I Stormwater Pond) is complete and fully paid for, and the AMB and Crockett Impact Fee Accounts have been established, in accordance with the terms and conditions of the Agreement; and

**WHEREAS**, County and Crockett desire to clarify the interpretation and application of Section 4 of the Original Agreement which pertains, in part, to Crockett’s right, but not the obligation, to complete the construction of the Second Phase Boggy Creek Road Improvements; and

**WHEREAS**, County and Crockett additionally wish to supplement the Agreement by establishing the terms and conditions for Crockett’s right, but not the obligation, to complete the construction of the Road Widening.

**NOW THEREFORE**, Crockett and County hereby acknowledge and declare the following:

1. Recitals. The foregoing recitals are true and correct and are incorporated into this Supplemental by reference.

2. Crockett’s Contribution. Crockett has elected to complete the construction of the Improvements. Accordingly, Crockett shall initially fund all costs; however, in accordance with the Agreement, Crockett’s contribution toward completion of the Improvements shall total \$2,450,000.00 (“**Crockett’s Contribution**”), and Crockett shall have no further obligation to fund any costs of construction for the Improvements.

3. Sections 2, 4, 6, 7, and 8 Interpretation. Sections 2, 4, 6, 7, and 8 of the Original Agreement shall be interpreted and applied pursuant to the following supplemental and/or modified provisions:

(a) *30-day Notice Waiver*. In consideration of Crockett’s election to contract, the County hereby waives the requirement for a thirty (30) day advance written notice as a condition precedent to Crockett’s

right to perform the County's construction obligations for the Second Phase Boggy Creek Improvements as required under Section 4(a) of the Original Agreement.

(b) *Phased Construction of the Improvements.* Crockett has requested, and the County has agreed, to allow Crockett to perform the Improvements in phases pursuant to the following terms and provisions:

(i) *Bridge Temporary Transitions.* To insure the orderly transition of traffic to, from and through the existing bridge during construction of the Improvements, the scope of the work to be bid by Crockett shall include the necessary traffic transition as part of the engineering specifications.

(ii) *Updated Cost Breakdown.* Exhibit "E" of the Agreement is hereby deleted in its entirety and replaced with the new Exhibit "E" attached hereto and made a part hereof. Accordingly, from and after the Effective Date, all references to the "Cost Breakdown" in the Agreement are hereby deemed to mean as revised by this Supplemental.

(iii) *Updated Budget.* Exhibit "D" of the Original Agreement is hereby supplemented and revised as to the estimated costs for the Improvements only as set forth in Exhibit "F" attached hereto and made a part hereof (the "**Updated Budget**"). Accordingly, from and after the Effective Date, all references to the "Budget" in the Agreement are hereby deemed to mean as revised by this Supplemental. The Updated Budget includes the additional cost for the re-design of the Road Widening due to the conservation area which, pursuant to Section 9 of the Amendment to Agreement, requires approval by the BCC as such change order exceeds 10% of the Road Widening Design Costs. Accordingly, by execution of this Supplemental, the BCC has approved such change order.

(iv) *Limitation on Crockett's Obligation to Pay or Fund the Second Phase Costs.* For purposes hereof, the term "**Second Phase Costs**" shall have the same meaning as the "**Phase II Costs**" in the Original Agreement. Notwithstanding anything to the contrary set forth in the Agreement, Sections 2(m) and 2(n) of the Agreement are hereby modified to provide that the maximum aggregate amount of Second Phase Costs that Crockett shall be required to pay during the Agreement shall not exceed Two Million Four Hundred Fifty Thousand and 00/100 Dollars (\$2,450,000.00).

(c) *Prioritization and Timing of Funding.* Due to the lapse of time between the First Phase completion and the contemplated Second Phase and Road

Widening commencement of construction, the parties acknowledge and reaffirm their respective contributions for the Boggy Creek Improvements as modified herein. Accordingly, Sections 7 and 8 of the Amendment to the Agreement are hereby deleted in their entirety.

4. Road Widening.

(a) *Road Widening Scope of Services and Design Costs.* Exhibits “C” (Road Widening Scope of Services) and “D” (Road Widening Design Costs) of the Amendment to Agreement are supplemented as described in the Exhibits “C” and “D” attached hereto and made a part hereof. Further, in connection with the Road Widening, Crockett shall be responsible for the cost of performing the water main and sewer forcemain construction to be more particularly detailed in the pending utility agreements to be entered into by Crockett, Orlando Utilities Commission, and/or the City of Orlando.

(b) *Road Widening Plans and Specifications.* Notwithstanding anything to the contrary set forth in the Agreement or this Supplemental, Section 9(a) of the Amendment to Agreement is hereby modified to provide that the Road Widening Plans and Specifications shall be modified by Crockett as follows (the cost of such design modifications to be excluded from the Road Widening Design Costs):

(i) To include one (1) traffic signal to be constructed and paid for at no cost or expense to County, which traffic signal shall be put in flash mode and placed in operation when warranted.

(ii) To include a third (3<sup>rd</sup>) full access point into the CDP Property to be constructed and paid for at no cost or expense to County.

(c) *Road Widening Costs.* The Road Widening costs are now included in the Cost Breakdown set forth in Exhibit “E” attached hereto.

(d) *Limitation on Crockett’s Obligation to Pay for or Fund the Road Widening.* The County is ultimately responsible for its share of the costs (after the remaining construction funds are provided by Crockett for the Road Widening Design Costs for which the County will issue impact fee credits as provided in the Amendment to Agreement) incurred in order to complete the Road Widening in accordance with the Road Widening Plans and Specifications (the “**Road Widening Costs**”). The County shall reimburse Crockett for the Road Widening Costs in accordance with Section 6 below.

(e) *Construction.* The construction contract for the Road Widening (the “**Construction Contract**”), shall be subject to the County’s review and approval.

(i) The Construction Contract shall clearly identify Crockett’s project manager (“**PM**”), who shall serve as the primary point of contact

for, and be required to coordinate with, the County staff throughout the design process, such that the County shall have no obligation to coordinate with any sub-contractors or sub-consultant(s).

(ii) The County shall be designated as a 3<sup>rd</sup> party beneficiary to the Construction Contract.

(iii) Prior to commencement of construction, Crockett shall provide payment and performance bonds satisfactory to the County for the costs of the Improvements, together with a rider to such bonds identifying the County as a dual-obligee.

(iv) Any required temporary construction easements, right-of-way utilization permits, and/or rights of entry shall be the responsibility of Crockett at no cost or expense to the County.

(v) The Construction Contract shall meet the indemnity and insurance requirements set forth herein.

(vi) A pre-construction meeting is to be held and a notice to proceed issued prior to the start of construction.

(vii) Permits and utility agreements must be obtained and provided to the County at the pre-construction meeting.

(f) *Inspection, testing and acceptance by County.* The County shall have the right to inspect and test work on the Improvements throughout the duration of construction. Upon completion of construction, the County shall conduct a final inspection and upon approval of the Improvements and Crockett's compliance with all attendant requirements, including without limitation, the highway construction inspection requirements, shall issue a certificate of completion ("C of C") for the Improvements.

(g) *Warranty.* At the date of final completion of the Improvements, a one year warranty surety reasonably acceptable to the County in the amount covering all Improvements shall be provided by Crockett to cover repairs and replacement required due to any and all workmanship and materials related to failures or defects, including latent defects, and/or any and all repairs or replacement due to excessive deterioration of the road construction materials. A walk-through inspection shall take place prior to close out of the one year warranty period. Crockett, at its sole expense, shall provide the repair or replacement to the County's satisfaction in a timely manner.

5. Bidding Requirements. Crockett shall be required to employ the following bidding procedures with respect to the Improvements:

(a) Prior to submitting for bids, Crockett shall deliver to the County a list of prospective bidders for the Improvements which shall be subject to the

County's review and approval (the "**Prospect List**"). In the event the County provides disapproval of any proposed contractor or subcontractor or makes recommendations to add certain contractor(s) or subcontractor(s), then the Prospect List shall be adjusted accordingly whereupon such revised version shall be deemed the Prospect List for all intents and purposes hereunder.

(b) Crockett shall obtain at least three (3) bids from any three (3) general contractors and subcontractors, respectively, selected from the Prospect List and shall be required to award the Construction Contract to the general contractor(s) and subcontractor(s), respectively, submitting the lowest qualified bid with an acceptable schedule for delivery of completion of the Improvements.

6. County's Reimbursement for the Improvements. The County agrees to reimburse Crockett for all actual and reasonable costs incurred for the Improvements (in excess of Crockett's Contribution for which the County will issue impact fee credits as provided in the Agreement) pursuant to the Construction Contract, subject to the following terms and provisions:

(a) All proposed costs for the Improvements that are eligible for reimbursement shall be reviewed and approved in writing by the County Engineer in advance of expenditure. Any such proposed costs shall be submitted to the County Engineer for review and approval in writing.

(b) Crockett may submit an invoice as requested for reimbursement no more than once per month.

(c) In order to be deemed acceptable as a sufficient reimbursement request, each invoice must be accompanied by a partial lien release together with reasonable proof of payment satisfactory to the County.

(d) The County shall make reasonable efforts to review each sufficient reimbursement request within thirty (30) days and issue payment for approved amounts within forty-five (45) days of receipt of such request or shall provide written notice of amounts not approved within said forty-five (45) days.

(e) Any requested change order to the Construction Contract must be submitted to the County for its review and approval. Change orders that amount to no more than 10% of the total contract price of the Construction Contract, individually or cumulatively, may be approved by the County Engineer. Change orders that amount to more than 10% of the contract price of the Construction Contract, individually or cumulatively, shall require approval by the Orange County Board of County Commissioners ("**BCC**").

(f) In light of the County's maximum limit of \$600,000.00 for expenditures in a fiscal year (ending on September 30) toward the Improvements, any disbursements requested hereunder in excess of such \$600,000.00 limitation shall be rolled over to the following fiscal year until paid in full by the County. Additional Improvement cost expenditures incurred prior to October 1, 2017 will



be paid for by Crockett up to the Crockett Contribution balance remaining as of the Effective Date (as stated below).

As of the Effective Date, the parties acknowledge that Crockett has expended \$471,397.47. Accordingly, the amount remaining under Crockett's Contribution is \$1,978,602.53.

7. Indemnification and Insurance. During the course of construction of the Improvements constructed hereunder, the following provisions shall apply:

(a) *Indemnification.* Crockett agrees, on behalf of itself, its agents, contractors, successors and assigns, that it shall, to the fullest extent permitted by law, defend, indemnify, and hold harmless the County, its officials, agents, and employees from and against any and all liabilities, claims, damages, losses, costs and expenses (including attorneys' fees) or obligations of any kind including without limitation environmental assessments, evaluations, remediation, fines, penalties and clean-up costs asserted against the County arising out of or resulting from the performance of the construction activities for the Improvements, excepting those acts or omissions arising out of the sole negligence of the County provided that any such liability, claim, damage, loss, cost or expense:

(i) Is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property (other than the construction activities themselves) including the loss of use resulting therefrom, and

(ii) Is caused in whole or part by an act or omission relating to the construction of the Improvements by Crockett, its agents or employees, or any contractor employed by Crockett, or anyone directly or indirectly employed by Crockett or its contractor(s), their subcontractors, or anyone for whose acts any of them may be liable; and

(iii) Is caused in whole or in part by any discharge or disposal of any hazardous or toxic materials, trash, debris, refuse, waste or other materials related in any way to the construction activities related to the construction of the Improvements; and

(iv) Provided, however, if the Agreement or any underlying contract for construction of any Improvements is deemed by a court of competent jurisdiction to be a construction contract under Section 725.06, Florida Statutes, any obligation of the contractors to defend, indemnify, or hold harmless the County, its officers, and employees shall be limited to an obligation to indemnify and hold harmless to the extent caused by the negligence, recklessness or intentionally wrongful conduct of the contractors and persons employed or utilized by the contractors in the performance of the construction activities.

(v) The indemnification provision contained herein shall survive the termination of this Supplemental.

(b) *Insurance.* Prior to commencing construction of any portion of the Improvements and throughout the course of construction of the Improvements, Crockett or its agents and contractors shall procure and maintain insurance with such limits and terms as specified in the following Schedule of Limits (see below):

(i) Workers' compensation insurance with statutory workers' compensation limits and no less than the limits specified in the Schedule of Limits for Employer's Liability with a waiver of subrogation in favor of the County its employees and officials.

(ii) Commercial general liability insurance for all operations including, but not limited to contractual, products and completed operations and personal injury with limits of not less than the limits specified in the Schedule of Limits per occurrence and an aggregate limit of at least twice the per occurrence limit.

(iii) Business automobile liability insurance for all owned, hired, or non-owned vehicles with limits of not less than the limits specified in the Schedule of Limits per occurrence.

(iv) Professional Liability (errors and omissions) for engineering design in amounts not less than One Million and 00/100 Dollars (\$1,000,000.00) per occurrence.

(v) Contractors pollution liability insurance including remediation and monitoring expense for all construction operations with limits of not less than One Million Dollars and 00/100 (\$1,000,000.00) per occurrence.

**Schedule of Limits**

<b>Contract Amount</b>	<b>Workers' Comp/ Employers' Liability</b>	<b>General Liability</b>	<b>Automobile Liability</b>
Up to \$10 million	Statutory/\$500,000	\$1,000,000	\$1,000,000
\$10 - \$20 million	Statutory/\$1,000,000	\$5,000,000	\$5,000,000
Over \$20 million	To be determined by the County		

Crockett shall be responsible for ensuring that each contractor and major subcontractors procure and maintain the insurance specified above and shall furnish to the County evidence of such insurance prior to commencement of construction. The County shall be specifically named (scheduled) as an additional insured on all policies except for workers' compensation coverage.

All coverage shall be primary and not contributory with any insurance or self-insurance maintained by the County. Crockett shall provide the County notice of any material change, cancellation, non-renewal of any policy required herein at least thirty (30) days prior to the occurrence thereof.

8. Recording. This Supplemental shall be recorded within thirty (30) days of the Effective Date, at Crockett's expense, in the Public Records of Orange County, Florida.

9. Effect of Supplemental. Except as supplemented and modified herein, the terms of the Agreement shall remain unchanged and in full force and effect, and the parties hereby reaffirm all terms, covenants and conditions contained in the Agreement. In the event of any conflict between the terms of the Agreement and this Supplemental, the terms of this Supplemental shall control.

10. Counterparts. To facilitate execution, the County and Crockett agree that this Supplemental may be executed and transmitted in up to three (3) counterparts and it shall not be necessary that the signature of, or on behalf of, each party, or that the signatures of all persons required to bind any party, appear on each counterpart; it shall be sufficient that the signature of, or on behalf of, each party, or that the signatures of the persons required to bind any party, appear on one or more of such counterparts. All counterparts shall collectively constitute a single Supplemental.

11. Notice. Section 9(d) of the Agreement is hereby supplemented as follows with respect to all notices to be delivered from and after the Effective Date:

Any notice delivered with respect to this Supplemental shall be in writing and shall be deemed to be delivered (whether or not actually received) (i) when hand delivered to the person(s) hereinafter designated, or (ii) upon deposit of such notice in the United States mail, postage prepaid, certified mail, return receipt requested, addressed to the person at the address set forth opposite the party's name below, or to such other address or to such other person as the party shall have specified by written notice to the other party delivered in accordance herewith.

As to Crockett:           Crockett Development Property, LLC  
6900 Tavistock Lakes Boulevard, Suite 200  
Orlando, Florida 32827  
Attention: James L. Zboril

With a copy to: Broad and Cassel LLP  
390 North Orange Avenue, Suite 1400  
Orlando, Florida 32801  
Attention: Sara W. Bernard, P.A.

As to County: Orange County Administrator  
P.O. Box 1393  
201 S. Rosalind Ave  
Orlando, FL 32802-1393

With a copy to: Orange County Community, Environmental,  
and Development Services Department  
Manager, Transportation Planning Division  
Orange County Public Works Complex  
4200 S. John Young Parkway  
Orlando, Florida 32839-9205

12. Amendment. This Supplemental may be amended only in writing, formally executed in the same manner.

13. Entire Agreement. This Supplemental, together with the Agreement, embodies and constitutes the entire understanding of the parties with respect to the subject matter addressed herein, and all prior or contemporaneous agreement, understandings, representations, and statements, oral or written, are merged into this Supplemental and the Agreement.

14. Interpretation. This Supplemental shall not be construed more strictly against one party than against the other merely by virtue of the fact that it may have been prepared by counsel for one of the parties, it being recognized that all parties have contributed substantially and materially to the preparation hereof. Captions and section headings in this Supplemental are provided for convenience only and shall not be deemed to explain, modify, amplify, or aid in the interpretation, construction, or meaning of this Supplemental.

15. Disclaimer of Third Party Beneficiaries. This Supplemental is solely for the benefit of the formal parties hereto and no right or cause of action shall accrue by reason hereof to or for the benefit of any third party not a formal party hereto. Nothing in

this Supplemental, expressed or implied, is intended or shall be construed to confer upon or give any person or entity any right, remedy, or claim under or by reason of this Supplemental or any provisions or conditions hereof, other than the parties hereto and their respective representatives, heirs, successors, and assigns.

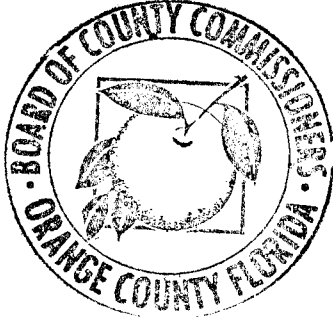
16. Authority to Contract. The execution of this Supplemental has been duly authorized by the appropriate body or official of each party hereto.

17. Severability. If any provision of this Supplemental, the deletion of which would not adversely affect the receipt of any material benefits by any party hereunder nor substantially increase the burden of any party hereunder, shall be held to be invalid or unenforceable to any extent by a court of competent jurisdiction, the same shall not affect in any respect whatsoever the validity or enforceability of the remainder of this Supplemental.

18. Ratification. All existing terms of the Agreement not amended by this Supplemental are hereby ratified in all respects and shall remain in full force and effect in accordance with the terms of the Agreement and of this Supplemental.

**[SIGNATURES APPEAR ON THE FOLLOWING PAGES]**

IN WITNESS WHEREOF, County and Crockett have hereunto caused these presents to be executed the day and year indicated above (which is the latest date of execution).



**ORANGE COUNTY, FLORIDA**

By: Board of County Commissioners

By: *Teresa Jacobs*

*Teresa Jacobs*  
Orange County Mayor

Date: 4.25.17

ATTEST: Phil Diamond, CPA, County  
Comptroller  
As Clerk of the Board of County  
Commissioners

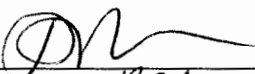
By: *Noelia Perez*

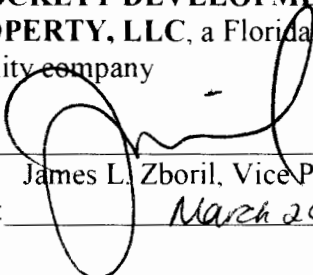
Deputy Clerk

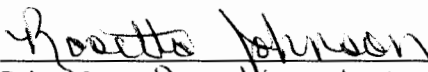
Print Name: Noelia Perez

Signed, sealed and delivered in  
the presence of:

**CROCKETT DEVELOPMENT  
PROPERTY, LLC**, a Florida limited  
liability company

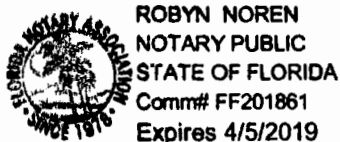
  
Print Name: Robyn Noren

By:   
James L. Zboril, Vice President MR  
Date: March 24, 2017


  
Print Name: Rosetta Johnson

State of Florida       )  
County of Orange    )

The foregoing instrument was acknowledged before me this 24 day of  
March, 2017, by James L. Zboril, as Vice President of Crockett Development  
Property, LLC, a Florida limited liability company, on behalf of the company. He ☒ is  
personally known to me or ☐ has produced his driver's license as identification.



(Notarial Seal)

  
Notary Public, State of Florida  
Printed Name: \_\_\_\_\_

**EXHIBIT "C"**

**ROAD WIDENING SCOPE OF SERVICES**

**Exhibit "C" to the Amendment to Agreement is hereby supplemented to add that  
certain Change Order by Dewberry Engineers Inc. dated February 8, 2017 attached  
hereto as 11 pages**





Dewberry Engineers Inc.  
800 N. Magnolia Ave., Suite 1000  
Orlando, FL 32803

407.843.5120  
407.649.8664 fax  
www.dewberry.com

February 8, 2017

File No. 99254039 (LKN-11)

Mr. John Pottinger  
Tavistock Development Company  
6900 Tavistock Lakes Blvd., Suite 200  
Orlando, Florida 32827

Subject: **Boggy Creek Road North  
South Access Road to Wetherbee Road  
Amendment No. 1**

Dear Mr. Pottinger,

Dewberry is pleased to submit the enclosed Scope of Services and fee proposal for additional design services for the Boggy Creek Road North project. The additional services include realigning the roadway to eliminate impacts to a Conservation Easement within the Airport South property. The additional services associated with the realignment were not included in the original scope of work.

We appreciate the opportunity to provide these services to Tavistock and Orange County. If you have any questions, or require additional information, please contact me at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin E. Knudsen', with a stylized flourish at the end.

Kevin E. Knudsen, P.E.  
Vice President

KEK:enp  
\\LKN11\Corr\6001  
Enclosures

c: Larry Kaufmann, P.E.



## **Supplemental Scope of Services**

### **Boggy Creek Road Airport South Connector Road to Wetherbee Road Extension Contract Y13-806-CH**

3.0 – Design and Plans Preparation – Dewberry was requested to realign the roadway after the 90% submittal to avoid impacts to an existing Conservation Easement. The roadway alignment was established per the August 14, 2008 Preliminary Engineering Report prepared by Bowyer-Singleton (Dewberry) for Lake Nona. The Conservation Easement was recorded on August 31, 2012, after the Preliminary Engineering Report was completed. Other Conservation Easements along the roadway alignment were described to the proposed R/W line, but this particular easement was described to the existing R/W line. Impacts to the Conservation Easement would have required releasing the Conservation Easement with the SFWMD, USACOE and Orange County. Releasing the Conservation Easement would have required considerable time and effort and would require additional wetland mitigation. The roadway alignment was shifted to avoid impacts to the Conservation Easement, resulting in redesign of approximately 1/2 mile of the roadway. Steel sheet piling was added to eliminate the roadway embankment from encroaching into the Conservation Easement. Work activities include roadway design, drainage design, structure design, plan revisions, signing and pavement markings and permitting.

**EXHIBIT "D" - AMENDMENT 1  
ORANGE COUNTY PUBLIC WORKS DEPARTMENT  
ACTIVITY AND FEE SUMMARY**

Project: Boggy Creek Road  
 From: Alipor South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing Contract #: \_\_\_\_\_  
 Firm: Dewberry

[illegible]

Project Boggy Creek Road  
 From Airport South Access Road to Wetherbee Road Extension  
 Date December 20, 2016  
 CIP #:  
 Purchasing  
 Contract #  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks	
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)					
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost					
3.1 Roadway Design																				
a. Typical Section Package & Design Criteria	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
b. Geometrics Design Files	1	1			135	6	\$394.96	16	\$728.00	56	\$1,725.92	57	\$1,539.00	0	\$0.00	\$4,397.90	135	\$32.50	Geometrics Design	
c. Cross Section Design Files	1	1			55	2	\$131.66	7	\$318.50	22	\$678.04	24	\$648.00	0	\$0.00	\$1,776.20	55	\$32.29	Cross Section Design	
d. Field Visits	1	1			16	1	\$65.83	2	\$91.00	6	\$184.92	7	\$189.00	0	\$0.00	\$530.75	16	\$33.17	Field Visits	
e. Technical Meetings	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
f. Design Computation Book	1	1			8	1	\$65.83	2	\$91.00	3	\$92.46	2	\$54.00	0	\$0.00	\$303.29	8	\$37.91	Design Computation	
g. Quantity Computation Book	1	1			16	2	\$131.66	4	\$182.00	6	\$184.92	4	\$108.00	0	\$0.00	\$666.58	16	\$37.91	Quantity Computation	
f. Pavement Design	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
Total					0	230	12	\$789.96	31	\$1,410.50	93	\$2,866.26	94	\$2,536.00	0	\$0.00	\$7,604.72	230	\$33.06	
3.2 Drainage Design																				
a. Determine Base Clearance Water Elev.	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
b. Review RCA Pond Siting Report	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
c. Design of Cross Drains	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
d. Design of Roadway Ditches	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
e. Design of Outfalls	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
f. Design of Stormwater Management Facilities	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
g. Design of Floodplain Compensation Areas	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
h. Design of Storm Drains	1	1			32	2	\$131.66	11	\$500.50	19	\$585.58	0	\$0.00	0	\$0.00	\$1,217.74	32	\$38.05	Design of Storm Drains	
i. Field Reviews	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
j. Technical Meetings	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
k. Design Documentation Report	1	1			8	1	\$65.83	2	\$91.00	5	\$154.10	0	\$0.00	0	\$0.00	\$310.93	8	\$36.87	Design Documentation	
l. Dewatering Design	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
Total					0	40	3	\$197.49	13	\$591.50	24	\$739.68	0	\$0.00	0	\$0.00	\$1,528.67	40	\$38.22	
3.3 Structural Design																				
Bridge No. 1 (New Bridge)																				
a. Bridge Concept Report	1	1	0		0	0	\$0.00	16	\$728.00	32	\$986.24	32	\$864.00	0	\$0.00	\$2,578.24	80	\$32.23	Bridge Concept Report	
b. Bridge Geometrics	1	2	0		0	0	\$0.00	5	\$227.50	9	\$277.38	2	\$54.00	0	\$0.00	\$558.88	16	\$34.93	Bridge Geometrics	
c. Expansion/Contraction Analysis	1	4	0		0	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	Expansion/Contraction Analysis	
d. End Bent Design & Geometry	1	2	0		0	0	\$0.00	8	\$364.00	24	\$739.68	8	\$216.00	0	\$0.00	\$1,319.68	40	\$32.99	End Bent Design & Geometry	
e. Wingwall Design & Geometry	1	1	0		0	0	\$0.00	0	\$0.00	6	\$184.92	2	\$54.00	0	\$0.00	\$238.92	8	\$29.87	Wingwall Design & Geometry	
f. Pier Design & Geometry	1	1			0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!		
g. Finished Grade Elevation Calculations	1	2	0		0	0	\$0.00	8	\$364.00	18	\$554.76	6	\$162.00	0	\$0.00	\$1,080.76	32	\$33.77	Finished Grade Elevation Calculations	
h. Bridge Deck Design	1	2	0		0	0	\$0.00	6	\$273.00	14	\$431.48	4	\$108.00	0	\$0.00	\$812.48	24	\$33.85	Bridge Deck Design	

Project: Boggy Creek Road  
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 Date: December 20, 2016  
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 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
i. Diaphragm Design/ Jacking Loads	1.4	2	0		24	0	\$0.00	8	\$364.00	14	\$431.48	2	\$54.00	0	\$0.00	\$849.48	24	\$35.40	
j. Prestressed Beam Design	1.4	2	0		0	0	\$0.00	4	\$182.00	10	\$308.20	2	\$54.00	0	\$0.00	\$544.20	16	\$34.01	
k. Bridge Load Rating	1.4	2	0		0	0	\$0.00	12	\$546.00	28	\$862.96	8	\$216.00	0	\$0.00	\$1,624.96	48	\$33.85	
l. Retaining Wall Horizontal Geometry	1.4	2	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08	
m. Retaining Wall Vertical Geometry	1.4	2	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08	
n. Computation Booklet	1.4	1	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08	
o. Quantity Calculations & Computation Booklet	1.5	1	0		0	0	\$0.00	5	\$227.50	9	\$277.38	2	\$54.00	0	\$0.00	\$558.88	16	\$34.93	
p. Cost Estimate	1.5	1	0		0	0	\$0.00	2	\$91.00	4	\$123.28	2	\$54.00	0	\$0.00	\$268.28	8	\$33.54	
<i>Miscellaneous Structures</i>																			
a. Mast Arm Design	1.4	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Box Culvert Design	1.4				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Sheet Pile Wall Design	1.4	1	40		40	2	\$131.65	8	\$364.00	20	\$616.40	10	\$270.00	0	\$0.00	\$1,382.05	40	\$34.55	
d. Field Visits	1.4	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				0	64	2	\$131.65	95	\$4,322.50	208	\$6,410.58	87	\$2,349.00	0	\$0.00	\$13,213.72	392	\$33.71	
<b>3.4.1 Cover Sheet</b>																			
a. Cover Sheet	1.4			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>3.4.2 General Notes</b>																			
a. General Notes Sheet	1.4			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>3.4.3 Standard Drawings and Details</b>																			
a. Standard Drawings and Details Sheets	1.4			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>3.4.4 Summary of Pay Items</b>																			
a. Summary of Pay Items Sheets	1.4			1	3	0	\$0.00	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$103.32	3	\$34.44	
<b>Total</b>				1	3	0	\$0.00	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$103.32	3	\$34.44	
<b>3.4.5 Drainage Map</b>																			
a. Drainage Map Sheets	1.4			4	32	0	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58	
<b>Total</b>				4	32	0	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58	

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 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.6 Typical Sections																			
a. Boggy Creek Road - New Bridge	Typical			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Boggy Creek Road Transition	Typical			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Details (Wall, Guardrail, X-Slope)	Typical			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				3	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.7 Summary of Quantities																			
a. Summary of Quantities Sheets	Summary	4		1	4	1	\$65.83	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$169.15	4	\$42.29	
Total				1	4	1	\$65.83	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$169.15	4	\$42.29	
3.4.8 Summary of Drainage Structures																			
a. Summary of Drainage Structures Sheets	Summary	4		1	4	1	\$65.83	1	\$45.50	1	\$30.82	12	\$324.00	0	\$0.00	\$466.15	15	\$31.08	
Total				1	4	1	\$65.83	1	\$45.50	1	\$30.82	12	\$324.00	0	\$0.00	\$466.15	15	\$31.08	
3.4.9 Survey Control Sheets																			
a. Survey Control Sheets	Survey	1	4	1	4	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	
Total				1	4	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	
3.4.10 Plan and Profile Sheets																			
a. Boggy Creek Road	Plan	5		5	20	2	\$131.66	4	\$182.00	6	\$184.92	8	\$216.00	0	\$0.00	\$714.58	20	\$35.73	
b.	Profile				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c.	Profile				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Driveway Profile Sheets	Profile			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Side Street Profile Sheets	Profile				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				6	20	2	\$131.66	4	\$182.00	6	\$184.92	8	\$216.00	0	\$0.00	\$714.58	20	\$35.73	
3.4.11 Intersection Details																			
a. South Access Road	Detail	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Wetherbee Road Extension	Detail			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Airport South PD Entrance	Detail			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d.	Detail				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e.	Detail				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f.	Detail				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				3	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

Project Boggy Creek Road  
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 Firm: Dawberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.12 Drainage Structure Cross Sections																			
a. Drainage Structure Cross Sections	Unit	1		20	30	1	\$65.83	3	\$136.50	4	\$123.28	12	\$324.00	0	\$0.00	\$649.61	20	\$32.48	
Total				20	30	1	\$65.83	3	\$136.50	4	\$123.28	12	\$324.00	0	\$0.00	\$649.61	20	\$32.48	
3.4.13 Box Culvert Plans																			
a. Box Culverts Sheets	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.14 Pond Details and Cross Sections																			
a. Pond Detail Sheets	Sheet	0		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Pond Cross Section Sheets	Sheet	0		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.15 Flood Plain Compensation Area Details																			
a. Flood Plain Compensation Detail Sheets	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Flood Plain Compensation Cross Sections	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.16 Wetland Mitigation Details																			
3.4.16.1 Mitigation Alternatives Consideration																			
3.4.16.2 Mitigation Plans																			
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.17 Geotechnical Soil Survey Sheet																			
a. Geotechnical Soil Survey	Sheet	0		1	1	0	\$0.00	0	\$0.00	0	\$0.00	1	\$27.00	0	\$0.00	\$27.00	1	\$27.00	
Total				1	1	0	\$0.00	0	\$0.00	0	\$0.00	1	\$27.00	0	\$0.00	\$27.00	1	\$27.00	
3.4.18 Cross Section Sheets																			
a. Boggy Creek Road	Sheet	2	1	27	18	0	\$0.00	3	\$136.50	6	\$184.92	9	\$243.00	0	\$0.00	\$564.42	18	\$31.36	
b. Boggy Creek Road	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Boggy Creek Road	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Boggy Creek Road	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Boggy Creek Road	Sheet	0		0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				27	18	0	\$0.00	3	\$136.50	6	\$184.92	9	\$243.00	0	\$0.00	\$564.42	18	\$31.36	
3.4.19 Erosion Control Plan																			
a. Erosion Control Plan Sheets	Sheet	0		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

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## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.21 Screen Wall Sheets																			
a. Screen Wall Sheets	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.22 Maintenance of Traffic Plans (2 Phases)																			
a. Traffic Control Analysis	Typical	1			8	1	\$65.83	2	\$91.00	2	\$61.64	3	\$81.00	0	\$0.00	\$299.47	8	\$37.43	
b. Traffic Control Design Files	Typical	1			20	2	\$131.66	2	\$91.00	6	\$184.92	10	\$270.00	0	\$0.00	\$677.58	20	\$33.88	Not a valid number
c. General & Phasing Notes	Typical	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Boggy Creek Road	Typical	4		4	16	1	\$65.83	2	\$91.00	4	\$123.28	9	\$243.00	0	\$0.00	\$523.11	16	\$32.69	
e.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
i.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j. MOT Drainage	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
k. MOT Cross Sections	Typical			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				6	44	4	\$263.32	6	\$273.00	12	\$369.84	22	\$594.00	0	\$0.00	\$1,500.16	44	\$34.09	
3.4.23 Utility Adjustment Plans/Roadway Lighting																			
a. Boggy Creek Road	Typical	5		5	10	0	\$0.00	2	\$91.00	2	\$61.64	6	\$162.00	0	\$0.00	\$314.64	10	\$31.46	
b.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				5	10	0	\$0.00	2	\$91.00	2	\$61.64	6	\$162.00	0	\$0.00	\$314.64	10	\$31.46	
3.4.24 Signing and Pavement Markings																			
aa. Reference and Design File	Typical				8	0	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58	
ab. Tabulation of Quantities	Typical	1		1	2	0	\$0.00	0	\$0.00	1	\$30.82	1	\$27.00	0	\$0.00	\$57.82	2	\$28.91	
a. Existing Sign Inventory	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. General Notes Sheet	Typical			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Summary of Pay Items	Typical	1		1	2	0	\$0.00	0	\$0.00	1	\$30.82	1	\$27.00	0	\$0.00	\$57.82	2	\$28.91	
d. Boggy Creek Road	Typical	5		5	10	1	\$65.83	2	\$91.00	2	\$61.64	5	\$135.00	0	\$0.00	\$353.47	10	\$35.35	
e. Wetherbee Road Extension	Typical	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f.	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Signing Cross Sections	Typical				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	



Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing: \_\_\_\_\_  
 Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
Total				9	22	1	\$65.83	4	\$182.00	8	\$184.92	11	\$297.00	0	\$0.00	\$729.75	22	\$33.17	
3.4.25 Signalization Plans																			
a. Engineering Analysis	1.000	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Summary of Quantities	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. General Notes Sheet	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Plan Sheet - Wetherbee Road Extension	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Guide Sign Worksheets	2.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. _____	1.000				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Interconnect Plan Sheets	1.000			0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h. Special Details-Mast Arm Detail Sheet	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
i. Mast Arm Tabulation Sheet	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j. Internally Illuminated Street Name Signs	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				7	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.26 Landscape Plans																			
a. General Notes Sheet	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Planting Detail Sheet	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Main Line Plan Sheets	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Quantity Calculations	1.000			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing: \_\_\_\_\_  
 Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.63	(Rate)	\$45.50	(Rate)	\$30.62	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.2.7.1 Structure Plans																			
a. Index of Drawings	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Standard Drawings	Sheet	4	0	4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<i>Bridge No. 1</i>						0		0		0		0		0					
a. General Notes, Bid Item Notes & Surface Finish	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Report of Core Borings	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. General Plan & Elevation	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Construction Staging	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Approach Slab Plan & Details	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. End Bent Plan & Elevation	Sheet	4	0	4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. End Bent Details	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h. Slope Protection Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
i. Pier Plan & Elevation	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j. Pier Details	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
k. Foundation Layout	Sheet	2	16	2	32	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
l. Finished Grade Elevations	Sheet	2	16	2	32	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
m. Superstructure Plan	Sheet	2	20	2	40	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
n. Superstructure Section	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
o. Superstructure Details	Sheet	4	24	4	96	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
p. Prestressed Beam Schedules	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
q. Expansion Joint Details, Bearing Devices	Sheet		16	1	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
r. Reinforcing Bar Lists	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
s. Bridge Hydraulic Recommendation Sheet	Sheet	1	24	1	24	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				<b>36</b>	<b>288</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0</b>	<b>#DIV/0!</b>	
3.4.2.7.4 Retaining Wall Plans																			
a. Control Drawing Key Sheet & General Notes	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Retaining Wall 1	Sheet	1	12	1	12	0	\$0.00	2	\$91.00	4	\$123.28	6	\$162.00	0	\$0.00	\$376.28	12	\$31.36	
c. Retaining Wall 2	Sheet	1	12	1	12	0	\$0.00	2	\$91.00	4	\$123.28	6	\$162.00	0	\$0.00	\$376.28	12	\$31.36	
d. Retaining Wall 3	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Retaining Wall 4	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. Retaining Wall 5	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Retaining Wall Miscellaneous Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				<b>4</b>	<b>24</b>	<b>0</b>	<b>\$0.00</b>	<b>4</b>	<b>\$182.00</b>	<b>8</b>	<b>\$246.56</b>	<b>12</b>	<b>\$324.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$762.84</b>	<b>24</b>	<b>\$31.36</b>	

Project: Boggy Creek Road  
 From: Airport South Access Road to Weltherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing: \_\_\_\_\_  
 Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.63	(Rate)	\$45.50	(Rate)	\$30.62	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.27.5 Critical Temporary Wall Plans																			
a. Critical Wall General Notes	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Critical Retaining Wall 1	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Critical Retaining Wall 2	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Critical Retaining Wall Miscellaneous Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
<b>Total</b>				<b>3</b>	<b>0</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0</b>	<b>#DIV/0!</b>	
<b>SUBTOTAL 3</b>				<b>148</b>	<b>838</b>	<b>27</b>	<b>\$1,777.41</b>	<b>171</b>	<b>\$7,780.50</b>	<b>376</b>	<b>\$11,586.32</b>	<b>281</b>	<b>\$7,587.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$26,733.23</b>	<b>855</b>	<b>\$33.61</b>	
Quality Control	5%-10%	set at 5%			42	11	\$724.13	17	\$773.50	14	\$431.48					\$1,929.11	42	\$45.93	
Supervision	5%-10%	set at 5%			42	11	\$724.13	17	\$773.50	14	\$431.48					\$1,929.11	42	\$45.93	
<b>TOTAL 3</b>					<b>922</b>	<b>48</b>	<b>\$3,225.67</b>	<b>205</b>	<b>\$9,327.50</b>	<b>404</b>	<b>\$12,451.28</b>	<b>281</b>	<b>\$7,587.00</b>	<b>0</b>	<b>\$0.00</b>	<b>\$32,691.45</b>	<b>839</b>	<b>\$34.71</b>	

<b>Task 1 Salary Costs</b>	<b>\$32,591.45</b>
a. Overhead Activities	
Admin. & General	199.00%
Fringe Benefits	
<b>Subtotal (Salary &amp; Overhead)</b>	<b>\$97,448.44</b>
b. Operating Margin	<b>\$0.00</b>
<b>Subtotal (Salary Related Costs)</b>	<b>\$97,448.44</b>
c. Direct Reimbursables (out of pocket)	<b>\$0.00</b>
<b>Total Task 1 Cost</b>	<b>\$97,448.44</b>

**EXHIBIT "D"**

**ROAD WIDENING DESIGN COSTS**

**Exhibit "C" to the Amendment to Agreement is hereby supplemented to add that  
certain Change Order by Dewberry Engineers Inc. dated February 8, 2017 attached  
hereto as 11 pages**



Dewberry Engineers Inc 407 843.5120  
800 N Magnolia Ave, Suite 1000 407 649 8664 fax  
Orlando, FL 32803 www.dewberry.com

February 8, 2017

File No. 99254039 (LKN-11)

Mr. John Pottinger  
Tavistock Development Company  
6900 Tavistock Lakes Blvd., Suite 200  
Orlando, Florida 32827

Subject: **Boggy Creek Road North  
South Access Road to Wetherbee Road  
Amendment No. 1**

Dear Mr. Pottinger,

Dewberry is pleased to submit the enclosed Scope of Services and fee proposal for additional design services for the Boggy Creek Road North project. The additional services include realigning the roadway to eliminate impacts to a Conservation Easement within the Airport South property. The additional services associated with the realignment were not included in the original scope of work.

We appreciate the opportunity to provide these services to Tavistock and Orange County. If you have any questions, or require additional information, please contact me at your convenience.

Sincerely,

Kevin E. Knudsen, P.E.  
Vice President

KEK:enp  
\\LKN11\Corr\6001  
Enclosures

c: Larry Kaufmann, P.E.



## **Supplemental Scope of Services**

### **Boggy Creek Road Airport South Connector Road to Wetherbee Road Extension Contract Y13-806-CH**

3.0 – Design and Plans Preparation – Dewberry was requested to realign the roadway after the 90% submittal to avoid impacts to an existing Conservation Easement. The roadway alignment was established per the August 14, 2008 Preliminary Engineering Report prepared by Bowyer-Singleton (Dewberry) for Lake Nona. The Conservation Easement was recorded on August 31, 2012, after the Preliminary Engineering Report was completed. Other Conservation Easements along the roadway alignment were described to the proposed R/W line, but this particular easement was described to the existing R/W line. Impacts to the Conservation Easement would have required releasing the Conservation Easement with the SFWMD, USACOE and Orange County. Releasing the Conservation Easement would have required considerable time and effort and would require additional wetland mitigation. The roadway alignment was shifted to avoid impacts to the Conservation Easement, resulting in redesign of approximately ½ mile of the roadway. Steel sheet piling was added to eliminate the roadway embankment from encroaching into the Conservation Easement. Work activities include roadway design, drainage design, structure design, plan revisions, signing and pavement markings and permitting.

**EXHIBIT "D" - AMENDMENT 1**  
**ORANGE COUNTY PUBLIC WORKS DEPARTMENT**  
**ACTIVITY AND FEE SUMMARY**

Project:	<u>Boggy Creek Road</u>		
From:	<u>Airport South Access Road</u>	to	<u>Wetherbee Road Extension</u>
Date:	<u>December 20, 2016</u>		
CIP #:	<u></u>		
Purchasing Contract #:	<u></u>		
Firm:	<u>Dewberry</u>		

[illegible]

Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.1 Roadway Design																			
a Typical Section Package & Design Criteria	EA	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b Geometrics Design Files	EA	135	1		135	6	\$394.95	16	\$728.00	56	\$1,725.92	57	\$1,539.00	0	\$0.00	\$4,367.90	135	\$32.50	Geometrics Design Files
c Cross Section Design Files	EA	55	1		55	2	\$131.66	7	\$318.50	22	\$678.04	24	\$648.00	0	\$0.00	\$1,776.20	55	\$32.29	Cross Section Design Files
d Field Visits	EA	16	1		16	1	\$65.83	2	\$91.00	6	\$184.92	7	\$189.00	0	\$0.00	\$530.75	16	\$33.17	Field Visits
e Technical Meetings	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f Design Computation Book	EA	8	1		8	1	\$65.83	2	\$91.00	3	\$92.46	2	\$54.00	0	\$0.00	\$303.29	8	\$37.91	Design Computation Book
g Quantity Computation Book	EA	16	2		16	2	\$131.66	4	\$182.00	6	\$184.92	4	\$108.00	0	\$0.00	\$808.58	16	\$37.91	Quantity Computation Book
f Pavement Design	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	230	12	\$789.96	31	\$1,410.50	93	\$2,866.26	94	\$2,538.00	0	\$0.00	\$7,604.72	230	\$33.06	
3.2 Drainage Design																			
a Determine Base Clearance Water Elev.	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b Review RCA Pond Siting Report	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c Design of Cross Drains	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d Design of Roadway Ditches	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e Design of Outfalls	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f Design of Stormwater Management Facilities	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g Design of Floodplain Compensation Areas	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h Design of Storm Drains	EA	32	2		32	2	\$131.66	11	\$500.50	19	\$585.58	0	\$0.00	0	\$0.00	\$1,217.74	32	\$38.05	Design of Storm Drains
i Field Reviews	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j Technical Meetings	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
k Design Documentation Report	EA	8	1		8	1	\$65.83	2	\$91.00	5	\$154.10	0	\$0.00	0	\$0.00	\$310.93	8	\$38.87	Design Documentation Report
l Dewatering Design	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	40	3	\$197.49	13	\$591.50	24	\$739.68	0	\$0.00	0	\$0.00	\$1,528.67	40	\$38.22	
3.3 Structural Design																			
Bridge No. 1 (New Bridge)																			
a Bridge Concept Report	EA	1	0		0	0	\$0.00	16	\$728.00	32	\$986.24	32	\$864.00	0	\$0.00	\$2,578.24	80	\$32.23	Bridge Concept Report
b Bridge Geometrics	EA	2	0		0	0	\$0.00	5	\$227.50	9	\$277.38	2	\$54.00	0	\$0.00	\$558.88	16	\$34.93	Bridge Geometrics
c Expansion/Contraction Analysis	EA	2	0		0	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	Expansion/Contraction Analysis
d End Bent Design & Geometry	EA	2	0		0	0	\$0.00	8	\$364.00	24	\$739.68	8	\$216.00	0	\$0.00	\$1,319.68	40	\$32.99	End Bent Design & Geometry
e Wingwall Design & Geometry	EA	1	0		0	0	\$0.00	0	\$0.00	6	\$184.92	2	\$54.00	0	\$0.00	\$238.92	8	\$29.87	Wingwall Design & Geometry
f Pier Design & Geometry	EA	0	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g Finished Grade Elevation Calculations	EA	2	0		0	0	\$0.00	8	\$364.00	18	\$554.76	6	\$162.00	0	\$0.00	\$1,080.76	32	\$33.77	Finished Grade Elevation Calculations
h Bridge Deck Design	EA	2	0		0	0	\$0.00	8	\$273.00	14	\$431.48	4	\$108.00	0	\$0.00	\$812.48	24	\$33.85	Bridge Deck Design



Project: Boggy Creek Road  
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 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task						Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
											\$65.63	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
											Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
i	Diaphragm Design/ Jacking Loads	24	2	0		24	0	\$0.00	8	\$364.00	14	\$431.48	2	\$54.00	0	\$0.00	\$849.48	24	\$35.40					
j	Prestressed Beam Design	16	2	0		0	0	\$0.00	4	\$182.00	10	\$308.20	2	\$54.00	0	\$0.00	\$544.20	16	\$34.01					
k	Bridge Load Rating	64	2	0		0	0	\$0.00	12	\$546.00	28	\$862.96	8	\$216.00	0	\$0.00	\$1,624.96	48	\$33.85					
l	Retaining Wall Horizontal Geometry	64	2	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08					
m	Retaining Wall Vertical Geometry	64	2	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08					
n	Computation Booklet	12	1	0		0	0	\$0.00	4	\$182.00	6	\$184.92	2	\$54.00	0	\$0.00	\$420.92	12	\$35.08					
o	Quantity Calculations & Computation Booklet	16	1	0		0	0	\$0.00	5	\$227.50	9	\$277.38	2	\$54.00	0	\$0.00	\$558.88	16	\$34.93					
p	Cost Estimate	12	1	0		0	0	\$0.00	2	\$91.00	4	\$123.28	2	\$54.00	0	\$0.00	\$268.28	8	\$33.54					
Miscellaneous Structures																								
a	Mast Arm Design	64	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0					
b	Box Culvert Design	64	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0					
c	Sheet Pile Wall Design	64	1	40		40	2	\$131.66	6	\$364.00	20	\$616.40	10	\$270.00	0	\$0.00	\$1,382.06	40	\$34.55					
d	Field Visits	64	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0					
Total									0	64	2	\$131.66	95	\$4,322.50	208	\$6,410.58	87	\$2,349.00	0	\$0.00	\$13,213.72	392	\$33.71	
3.4.1 Cover Sheet																								
a	Cover Sheet	1				1	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!					
Total									1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!			
3.4.2 General Notes																								
a	General Notes Sheet	1				1	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!					
Total									1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!			
3.4.3 Standard Drawings and Details																								
a	Standard Drawings and Details Sheets	1				1	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!					
Total									1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!			
3.4.4 Summary of Pay Items																								
a	Summary of Pay Items Sheets	1				1	3	\$0.00	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$103.32	3	\$34.44					
Total									1	3	0	\$0.00	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$103.32	3	\$34.44	
3.4.5 Drainage Map																								
a	Drainage Map Sheets	1				4	32	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58					
Total									4	32	0	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58	

Project Boggy Creek Road  
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 Firm Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.6 Typical Sections																			
a. Boggy Creek Road - New Bridge	Bridge	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Boggy Creek Road Transition	Bridge			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Details (Wall, Guardrail, X-Slope)	Bridge	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				3	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.7 Summary of Quantities																			
a. Summary of Quantities Sheets	Bridge		4	1	4	1	\$65.83	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$169.15	4	\$42.29	
Total				1	4	1	\$65.83	1	\$45.50	1	\$30.82	1	\$27.00	0	\$0.00	\$169.15	4	\$42.29	
3.4.8 Summary of Drainage Structures																			
a. Summary of Drainage Structures Sheets	Bridge		4	1	4	1	\$65.83	1	\$45.50	1	\$30.82	12	\$324.00	0	\$0.00	\$466.15	15	\$31.08	
Total				1	4	1	\$65.83	1	\$45.50	1	\$30.82	12	\$324.00	0	\$0.00	\$466.15	15	\$31.08	
3.4.9 Survey Control Sheets																			
a. Survey Control Sheets	Bridge	1	4	1	4	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	
Total				1	4	0	\$0.00	1	\$45.50	2	\$61.64	1	\$27.00	0	\$0.00	\$134.14	4	\$33.54	
3.4.10 Plan and Profile Sheets																			
a. Boggy Creek Road	Bridge		4	5	20	2	\$131.66	4	\$182.00	6	\$184.92	8	\$216.00	0	\$0.00	\$714.58	20	\$35.73	
b	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Driveway Profile Sheets	Bridge			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Side Street Profile Sheets	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				6	20	2	\$131.66	4	\$182.00	6	\$184.92	8	\$216.00	0	\$0.00	\$714.58	20	\$35.73	
3.4.11 Intersection Details																			
a. South Access Road	Bridge			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Wetherbee Road Extension	Bridge			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Airport South PD Entrance	Bridge			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f	Bridge				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				3	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

Project: Boggy Creek Road  
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## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.12 Drainage Structure Cross Sections																			
a. Drainage Structure Cross Sections	Sheet	20	1.5	20	30	1	\$65.83	3	\$136.50	4	\$123.28	12	\$324.00	0	\$0.00	\$649.61	20	\$32.48	
Total				20	30	1	\$65.83	3	\$136.50	4	\$123.28	12	\$324.00	0	\$0.00	\$649.61	20	\$32.48	
3.4.13 Box Culvert Plans																			
a. Box Culverts Sheets	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.14 Pond Details and Cross Sections																			
a. Pond Detail Sheets	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Pond Cross Section Sheets	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.15 Flood Plain Compensation Area Details																			
a. Flood Plain Compensation Detail Sheets	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Flood Plain Compensation Cross Sections	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.16 Wetland Mitigation Details																			
3.4.16.1 Mitigation Alternatives Consideration																			
3.4.16.2 Mitigation Plans																			
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.17 Geotechnical Soil Survey Sheet																			
a. Geotechnical Soil Survey	Sheet			1	1	0	\$0.00	0	\$0.00	0	\$0.00	1	\$27.00	0	\$0.00	\$27.00	1	\$27.00	
Total				1	1	0	\$0.00	0	\$0.00	0	\$0.00	1	\$27.00	0	\$0.00	\$27.00	1	\$27.00	
3.4.18 Cross Section Sheets																			
a. Boggy Creek Road	Sheet	18	1.5	27	18	0	\$0.00	3	\$136.50	6	\$184.92	9	\$243.00	0	\$0.00	\$564.42	18	\$31.36	
b.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c.	Sheet			0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d.	Sheet			0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e.	Sheet			0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				27	18	0	\$0.00	3	\$136.50	6	\$184.92	9	\$243.00	0	\$0.00	\$564.42	18	\$31.36	
3.4.19 Erosion Control Plan																			
a. Erosion Control Plan Sheets	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

Project: Boggy Creek Road  
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 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.21 Screen Wall Sheets																			
a. Screen Wall Sheets	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
Total				0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.22 Maintenance of Traffic Plans (2 Phases)																			
a. Traffic Control Analysis	Sheet	1	8		8	1	\$65.83	2	\$91.00	2	\$61.64	3	\$81.00	0	\$0.00	\$299.47	8	\$37.43	
b. Traffic Control Design Files	Sheet	1	20		20	2	\$131.66	2	\$91.00	6	\$184.92	10	\$270.00	0	\$0.00	\$677.58	20	\$33.88	Project 100%
c. General & Phasing Notes	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
d. Boggy Creek Road	Sheet	4		4	16	1	\$65.83	2	\$91.00	4	\$123.28	9	\$243.00	0	\$0.00	\$523.11	16	\$32.69	
e.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
f.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
g.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
h.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
i.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
j. MOT Drainage	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
k. MOT Cross Sections	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
Total				6	44	4	\$283.32	6	\$273.00	12	\$369.84	22	\$594.00	0	\$0.00	\$1,500.16	44	\$34.09	
3.4.23 Utility Adjustment Plans/Roadway Lighting																			
a. Boggy Creek Road	Sheet	5		5	10	0	\$0.00	2	\$91.00	2	\$61.64	6	\$162.00	0	\$0.00	\$314.64	10	\$31.46	
b.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
c.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
d.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
e.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
Total				5	10	0	\$0.00	2	\$91.00	2	\$61.64	6	\$162.00	0	\$0.00	\$314.64	10	\$31.46	
3.4.24 Signing and Pavement Markings																			
aa. Reference and Design File	Sheet				8	0	\$0.00	2	\$91.00	2	\$61.64	4	\$108.00	0	\$0.00	\$260.64	8	\$32.58	
ab. Tabulation of Quantities	Sheet	1		1	2	0	\$0.00	0	\$0.00	1	\$30.82	1	\$27.00	0	\$0.00	\$57.82	2	\$28.91	
a. Existing Sign Inventory	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0	
b. General Notes Sheet	Sheet	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Summary of Pay Items	Sheet	1		1	2	0	\$0.00	0	\$0.00	1	\$30.82	1	\$27.00	0	\$0.00	\$57.82	2	\$28.91	
d. Boggy Creek Road	Sheet	5		5	10	1	\$65.83	2	\$91.00	2	\$61.64	5	\$135.00	0	\$0.00	\$353.47	10	\$35.35	
e. Wetherbee Road Extension	Sheet	1		1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f.	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Signing Cross Sections	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	Project 100%

Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing: \_\_\_\_\_  
 Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
Total				9	22	1	\$65.83	4	\$182.00	6	\$184.92	11	\$297.00	0	\$0.00	\$729.75	22	\$33.17	
3.4.25 Signalization Plans																			
a. Engineering Analysis	Sheet	1	0		0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Summary of Quantities	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. General Notes Sheet	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Plan Sheet - Wetherbee Road Extension	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Guide Sign Worksheets	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. _____	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Interconnect Plan Sheets	Sheet			0	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h. Special Details-Mast Arm Detail Sheet	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
i. Mast Arm Tabulation Sheet	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j. Internally Illuminated Street Name Signs	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				7	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.26 Landscape Plans																			
a. General Notes Sheet	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Planting Detail Sheet	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Main Line Plan Sheets	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Quantity Calculations	Sheet			1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	

Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2016  
 CIP #: \_\_\_\_\_  
 Purchasing Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$55.83	(Rate)	\$45.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.2.7.1 Structure Plans																			
a. Index of Drawings	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Standard Drawings	Sheet	4	0	4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Bridge No. 1						0		0		0		0							
a. General Notes, Bid Item Notes & Surface Finish	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Report of Core Borings	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. General Plan & Elevation	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Construction Staging	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Approach Slab Plan & Details	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. End Bent Plan & Elevation	Sheet	4	0	4	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. End Bent Details	Sheet	2	0	2	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
h. Slope Protection Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
i. Pier Plan & Elevation	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
j. Pier Details	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
k. Foundation Layout	Sheet	2	16	2	32	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
l. Finished Grade Elevations	Sheet	2	16	2	32	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
m. Superstructure Plan	Sheet	2	20	2	40	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
n. Superstructure Section	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
o. Superstructure Details	Sheet	4	24	4	96	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
p. Prestressed Beam Schedules	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
q. Expansion Joint Details, Bearing Devices	Sheet	1	16	1	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
r. Reinforcing Bar Lists	Sheet	2	8	2	16	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
s. Bridge Hydraulic Recommendation Sheet	Sheet	1	24	1	24	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				36	288	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
3.4.2.7.4 Retaining Wall Plans																			
a. Control Drawing Key Sheet & General Notes	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Retaining Wall 1	Sheet	4	12	4	12	0	\$0.00	2	\$91.00	4	\$123.28	6	\$162.00	0	\$0.00	\$376.28	12	\$31.36	
c. Retaining Wall 2	Sheet	4	12	4	12	0	\$0.00	2	\$91.00	4	\$123.28	6	\$162.00	0	\$0.00	\$376.28	12	\$31.36	
d. Retaining Wall 3	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
e. Retaining Wall 4	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
f. Retaining Wall 5	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
g. Retaining Wall Miscellaneous Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				4	24	0	\$0.00	4	\$182.00	8	\$246.56	12	\$324.00	0	\$0.00	\$782.56	24	\$31.36	

Project: Boggy Creek Road  
 From: Airport South Access Road to Wetherbee Road Extension  
 Date: December 20, 2018  
 CIP #: \_\_\_\_\_  
 Purchasing: \_\_\_\_\_  
 Contract #: \_\_\_\_\_  
 Firm: Dewberry

## FINAL DESIGN TASK LIST - EXHIBIT D - AMENDMENT 1

Activity: Final Design

Sub-Activity: 3.0 Design and Plans Preparation

Task	Basis of Estimate	Number of Units	Hours per Unit	Number of Sheets	Total Hours	Project Manager		Senior Engineer		Engineer		CADD Tech.		Clerical		Total Salary Costs	Total Hours	Average Hourly Rate	Remarks
						\$65.83	(Rate)	\$46.50	(Rate)	\$30.82	(Rate)	\$27.00	(Rate)	\$0.00	(Rate)				
						Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
3.4.27.5 Critical Temporary Work Plans																			
a. Critical Work General Notes	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
b. Critical Retaining Wall 1	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
c. Critical Retaining Wall 2	Sheet				0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
d. Critical Retaining Wall Miscellaneous Details	Sheet	1	0	1	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
Total				3	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00	0	#DIV/0!	
SUBTOTAL 3				148	838	27	\$1,777.41	171	\$7,780.50	376	\$11,588.32	281	\$7,587.00	0	\$0.00	\$26,733.23	855	\$33.61	
Quality Control	5%-10%	set at 5%			42	11	\$724.13	17	\$773.50	14	\$431.48					\$1,929.11	42	\$45.93	
Supervision	5%-10%	set at 5%			42	11	\$724.13	17	\$773.50	14	\$431.48					\$1,929.11	42	\$45.93	
TOTAL 3					922	49	\$3,225.67	205	\$9,327.50	404	\$12,451.28	281	\$7,587.00	0	0	\$32,591.45	939	\$34.71	

<b>Task 1 Salary Costs</b>		<b>\$32,591.45</b>
a. Overhead Activities		
Admin. & General	199.00%	\$64,856.99
Fringe Benefits		\$0.00
<b>Subtotal (Salary &amp; Overhead)</b>		<b>\$97,448.44</b>
b. Operating Margin		\$0.00
<b>Subtotal (Salary Related Costs)</b>		<b>\$97,448.44</b>
c. Direct Reimbursables (out of pocket)		\$0.00
<b>Total Task 1 Cost</b>		<b>\$97,448.44</b>

**EXHIBIT "E"**

**COST BREAKDOWN**

**TOTAL COST OF THE BOGGY CREEK  
ROAD PHASE II IMPROVEMENTS**

<b><u>PHASE I COSTS (COMPLETED 2012):</u></b>	<b>\$2,328,016.00</b>
<b><u>PHASE II COSTS:</u></b>	
<b><u>PHASE II (CROCKETT)</u></b>	
AMENDMENT TO ORIGINAL AGREEMENT	\$2,382,814.00
ADDITIONAL COSTS PER ORIGINAL AGREEMENT	\$67,186.00
<b><u>TOTAL PHASE II CROCKETT CASH CONTRIBUTION</u></b>	<b>\$2,450,000.00</b>
LESS DESIGN FEES (DEWBERRY, INC.) PAID TO DATE	\$854,582.55
<b><u>REMAINING CROCKETT CONTRIBUTION TO IMPROVEMENTS</u></b>	<b>\$1,595,417.45</b>
<b><u>PHASE II ORANGE COUNTY</u></b>	
ENGINEERS ESTIMATE FOR PHASE II	\$14,079,810.35
LESS REMAINING CROCKETT CONTRIBUTION	\$1,595,417.45
<b><u>PHASE II ORANGE COUNTY CASH CONTRIBUTION</u></b>	<b>\$12,484,392.90</b>

**SCHEDULE OF FUNDING FOR CROCKETT CONTRIBUTION**

- 1 Costs incurred by Crockett for the Road Widening Design.  
The current Contract between Dewberry, Inc. and Crockett is for \$757,134.11. Amendment # 1 dated 2/8/17 for \$97,448.44 is attached with Exhibit "D". Total Design cost is \$854,582.55.
- 2 Total payment in the amount of \$2,450,000.00 less amounts paid under item 1.
- 3 Cost overrun payments by Crockett



TRANSPORTATION IMPACT FEE ACCOUNT (CROCKETT):

Permitting Deposit (Phase I)	\$250,000.00
Dewberry Invoices (thru # 21)	\$471,397.47
Total Account Nov. 4, 2016	<b>\$721,397.47</b>

**EXHIBIT “F”**

**UPDATED BUDGET**

**Exhibit “D” to the Agreement is hereby supplemented to add the attached 3 pages  
prepared by Dewberry Engineers Inc. dated August 2016**

**Engineer's Opinion of Probable Cost (100% Submittal)**  
**Boggy Creek Road**  
**From South Access Road to Wetherbee Road**  
**Prepared By Dewberry Engineers Inc., August 2016**

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
<b>ROADWAY ITEMS</b>					
101-1	Mobilization (10%)	LS	1	\$953,911.97	\$953,911.97
102-1	Maintenance of Traffic (15%) (730 Days)	LS	1	\$1,430,867.95	\$1,430,867.95
104-14	Prevention, Control, And Abatement of Erosion and Water Pollution (5%)	LS	1	\$476,955.98	\$476,955.98
110-1-1	Clearing and Grubbing (LS/AC)	AC	32	\$10,804.10	\$343,786.48
120-4	Subsoil Excavation (A-8/Unsuitable Material)	CY	1000	\$6.16	\$6,160.00
120-9	Excavation, Embankment, and Grading (LS/CY) (Excavation)	CY	83983	\$4.32	\$362,806.56
	Excavation, Embankment, and Grading (LS/CY) (Embankment)	CY	55454	\$10.29	\$570,621.66
160-4	Type B Stabilization (12") (Minimum LBR 40)	SY	68940	\$3.30	\$227,502.00
270-08	Soil Cement Base (300 PSI - Primed) (8")	SY	1102	\$14.00	\$15,428.00
270-12	Soil Cement Base (300 PSI - Primed) (12")	SY	56726	\$16.00	\$907,616.00
286-1	Turnout Construction	SY	147	\$28.65	\$4,211.55
327-70-6	Milling Existing Asphalt Pavement (1.5" Avg. Depth)	SY	4497	\$1.98	\$8,904.06
334-1-13	Superpave Asphalt Concrete (SP 12.5) (Traffic C - Inc. Tack Coat) (3")	TN	9048	\$89.98	\$814,178.18
337-7-43	Asphaltic Conc. Friction Course (FC 12.5) (Traffic C) (1.5")	TN	4944	\$103.24	\$510,407.72
337-7-43A	Asphaltic Conc. Friction Course (FC 12.5) (Traffic C) (Overbuild)	TN	3.2	\$103.24	\$330.37
400-2-1	Concrete Class II (Culverts)	CY	134	\$1,347.61	\$180,579.74
400-2-8	Concrete Class II (Bulkhead)	CY	156	\$1,030.00	\$160,680.00
400-4-1	Concrete Box Culvert (Inc. Reinforcing Steel)	LS	1	\$135,000.00	\$135,000.00
415-1-1	Reinforcing Steel (Roadway)	LB	27097	\$1.08	\$29,264.76
415-1-8	Reinforcing Steel (Bulkhead)	LB	15535	\$1.31	\$20,350.85
425-1-311	Inlets (Curb Type P-1) (<10')	EA	32	\$4,765.63	\$152,500.16
425-1-315	Inlets (Curb Type P-1) (Partial)	EA	1	\$5,423.11	\$5,423.11
425-1-321	Inlets (Curb Type P-2) (<10')	EA	12	\$5,005.86	\$60,070.32
425-1-411	Inlets (Curb Type J-1) (<10')	EA	8	\$7,556.45	\$60,451.60
425-1-421	Inlets (Curb Type J-2) (<10')	EA	3	\$6,414.83	\$19,244.49
425-1-521	Inlets (Ditch Bottom Type C) (<10')	EA	4	\$3,049.86	\$12,199.44
425-1-523	Inlets (Ditch Bottom Type C) (J Bottom <10')	EA	1	\$5,980.27	\$5,980.27
425-1-583	Inlets (Ditch Bottom Type H) (J Bottom <10')	EA	2	\$4,682.69	\$9,365.38
425-2-61	Manholes (P-8) (<10')	EA	3	\$4,078.95	\$12,236.85
425-2-91	Manholes (J-8) (<10')	EA	2	\$6,017.86	\$12,035.72
425-2-92	Manholes (J-8) (>10')	EA	3	\$9,156.68	\$27,470.04
430-175-118	Pipe Culvert (S/CD) (Round) (18") (RCP - Class III)	LF	3699	\$57.57	\$212,951.43
430-175-124	Pipe Culvert (S/CD) (Round) (24") (RCP - Class III)	LF	1581	\$68.39	\$108,124.59
430-175-130	Pipe Culvert (S/CD) (Round) (30") (RCP - Class III)	LF	675	\$85.82	\$57,928.50
430-175-136	Pipe Culvert (S/CD) (Round) (36") (RCP - Class III)	LF	2635	\$110.44	\$291,009.40
430-175-142	Pipe Culvert (S/CD) (Round) (42") (RCP - Class III)	LF	796	\$146.41	\$116,542.36
430-175-160	Pipe Culvert (S/CD) (Round) (60") (RCP - Class III)	LF	74	\$297.82	\$22,038.68
430-175-218	Pipe Culvert (S/CD) (Other - Elip/Arch) (18") (RCP Class III)	LF	174	\$75.66	\$13,164.84
430-175-224	Pipe Culvert (S/CD) (Other - Elip/Arch) (24") (RCP Class III)	LF	85	\$100.80	\$8,568.00
430-982-142	Mitered End Section (CD) (Round) (42")	EA	2	\$5,239.25	\$10,478.50
430-982-160	Mitered End Section (CD) (Round) (60")	EA	1	\$25,818.41	\$25,818.41
515-2-11	Handrail (Galvanized Steel)	LF	3122	\$35.00	\$109,270.00
520-1-7	Concrete Curb and Gutter (Type E)	LF	12558	\$14.48	\$181,839.84
520-1-10	Concrete Curb and Gutter (Type F)	LF	12561	\$18.12	\$227,605.32
520-5-16	Concrete Traffic Separator (Type I) (8.5')	LF	7	\$39.08	\$273.56
521-72-5	Shoulder Concrete Barrier Wall (Rigid - Curb and Gutter)	LF	1830	\$279.72	\$511,887.60
522-1	Concrete Sidewalk (4" Thick)	SY	7993	\$36.51	\$291,824.43
522-2	Concrete Sidewalk and Driveways (6" Thick)	SY	340	\$45.52	\$15,478.80
524-1-1	Concrete Ditch Pavement (Non-Reinforced) (3")	SY	31	\$48.22	\$1,494.82
524-1-4	Concrete Ditch Pavement (Non-Reinforced) (6")	SY	52	\$66.27	\$3,446.04
527-2	Detectable Warnings	SF	146	\$27.56	\$4,023.76
536-73	Guardrail Removal	LF	1050	\$1.66	\$1,743.00
550-10-220	Fencing (Type B) (6') (Standard)	LF	8727	\$10.77	\$93,989.79
550-60-212	Fence Gate (Type B) (Single) (12')	EA	5	\$1,281.63	\$6,408.15
570-1-2	Performance Turf, Sod	SY	58306	\$2.37	\$138,185.22
<b>ROADWAY SUB TOTAL</b>					<b>\$9,990,634.24</b>

## Engineer's Opinion of Probable Cost (100% Submittal)

Pay Item	Description	Unit	Quantity	Unit Cost	Total Cost
<b>STRUCTURES ITEMS</b>					
400-1	Bridge	LS	1	\$692,261.44	
110-3	Removal of Existing Structure	SF	4590	\$18.05	\$82,849.50
400-2-4	Concrete Class II (Superstructure)	CY	225	\$595.03	\$133,881.75
400-4-5	Concrete Class II (Substructure)	CY	125	\$1,123.91	\$140,488.75
400-9	Bridge Deck Grooving and Planing (Deck Thickness 8.5" or Greater)	SY	781	\$6.31	\$4,928.11
400-145	Cleaning Concrete Surface	SF	8931	\$1.25	\$11,163.75
400-147	Composite Neoprene Pads	CF	6	\$884.19	\$5,305.14
415-1-4	Reinforcing Steel (Superstructure)	LB	57000	\$0.74	\$42,180.00
415-1-5	Reinforcing Steel (Substructure)	LB	18200	\$0.89	\$16,198.00
450-1-2	Prestressed Beams (Type III)	LF	889	\$220.00	\$195,580.00
458-1-11	Bridge Deck Expansion Joint (New Construction - F&I) (Poured Joint)	LF	84	\$46.21	\$3,881.64
460-70-3	Aluminum Bullet Railings - Bridge (32" F-Shape)	LF	240	\$24.70	\$5,928.00
521-5-1	Concrete Traffic Railings - Bridge (32" F-Shape)	LF	480	\$73.91	\$35,476.80
521-6-1	Concrete Parapet (Pedestrian/Bicycle)	LF	240	\$60.00	\$14,400.00
400-2-10	Concrete Class II (Approach Slab)	CY	94	\$440.27	\$41,385.38
455-34-3	Prestressed Concrete Piling - (F&I) (18" Square)	LF	2420	\$200.00	\$484,000.00
455-133-3	Sheet Piling Steel (F&I) (Permanent)	SF	21386	\$34.45	\$736,747.70
455-143-3	Test Piles - Prestressed Concrete (18" Square)	LF	500	\$230.00	\$115,000.00
530-3-3	Riprap - Rubble (Bank and Shore)	TN	724	\$69.61	\$50,397.64
<b>STRUCTURES SUB TOTAL</b>					<b>\$2,119,792.16</b>
<b>SIGNALIZATION ITEMS</b>					
603-1	Signalization - Wetherbee Road	LS	1	\$202,157.20	
630-2-11	Conduit (F&I) Open Trench	LF	185	\$7.89	\$1,459.65
630-2-12	Conduit (F&I) Directional Bore	LF	260	\$15.09	\$3,923.40
632-7-1	Signal Cable - New Or Reconstructed Intersection (F&I)	PI	1	\$5,316.01	\$5,316.01
635-2-12	Pull and Splice Box (F&I) Special Cover Size	EA	10	\$1,222.68	\$12,226.80
646-1-11	Aluminum Signals Pole (Pedestal)	EA	4	\$1,058.04	\$4,232.16
646-2-12	Aluminum Signals Pole (Pedestrian Detector Post)	EA	2	\$711.15	\$1,422.30
649-31-203	Mast Arm (F&I) Single Arm, W/O Luminaire (60")	EA	2	\$30,993.46	\$61,986.92
649-31-205	Mast Arm (F&I) Single Arm, W/O Luminaire (78")	EA	1	\$33,269.94	\$33,269.94
649-36-500	Mast Arm (Remove Deep/Complete Foundation) (Bolt On Attachment)	EA	3	\$4,655.97	\$13,967.91
650-1-311	Traffic Signal (F&I) (3 Section, 1-Way) (Aluminum)	AS	6	\$1,012.97	\$6,077.82
650-1-411	Traffic Signal (F&I) (4 Section, 1-Way) (Aluminum)	AS	2	\$1,248.96	\$2,497.92
653-1-60	Pedestrian Signal (Remove Ped Signal) (Pole/Pedestal To Remain)	EA	8	\$95.71	\$765.68
653-191	Pedestrian Signal (F&I) (LED Countdown) (1 Direction)	AS	6	\$679.81	\$4,078.86
660-4-10	Vehicle Detection System - Video (F&I) (Complete System)	EA	1	\$20,000.00	\$20,000.00
663-1-10	Signal Priority/Preemption System (F&I) (Optical) (Complete System)	EA	1	\$7,114.75	\$7,114.75
665-1-11	Pedestrian Detector (F&I) Standard	EA	6	\$226.99	\$1,361.94
700-5-410	Traffic Controller Assembly (Modify)	AS	1	\$1,500.00	\$1,500.00
700-5-12	Internally Illuminated Sign	EA	3	\$3,239.42	\$9,718.26
	Removal of Existing Signal Equipment (Misc.) (10%)	PI	1	\$11,236.88	\$11,236.88
<b>SIGNALIZATION SUB TOTAL</b>					<b>\$202,157.20</b>
<b>SIGNING AND PAVEMENT MARKING ITEMS</b>					
700-1-11	Single Post Sign (F&I) (<12 SF)	AS	23	\$316.92	\$7,289.16
700-1-12	Single Post Sign (F&I) (12-20 SF)	AS	12	\$980.01	\$11,760.12
700-1-60	Single Post Sign (Remove)	AS	21	\$17.49	\$367.29
700-2-13	Multi-Post Sign (F&I) (21-30 SF)	AS	1	\$3,562.07	\$3,562.07
700-2-14	Multi-Post Sign (F&I) (31-50 SF)	AS	1	\$4,420.82	\$4,420.82
700-2-60	Multi-Post Sign (Remove)	AS	3	\$473.46	\$1,420.38
705-10-1	Object Marker (Type I)	EA	21	\$127.17	\$2,670.57
705-11-3	Delineator (Flexible High Visibility Median)	EA	2	\$183.81	\$367.62
706-3	Retro-Reflective Pavement Markers	EA	564	\$3.40	\$1,917.60
710-90	Painted Pavement Markings (Final Surface)	LS	1	\$10,899.27	\$10,899.27
710-11-290	Painted Pavement Markings (Standard) (Yellow) (Island Nose)	SF	225	\$1.72	\$387.00
711-11-123	Thermoplastic (Standard) (White) (12")	LF	1002	\$2.24	\$2,244.48
711-11-124	Thermoplastic (Standard) (White) (Solid) (18")	LF	1128	\$2.92	\$3,293.76
711-11-125	Thermoplastic (Standard) (White) (Solid) (24")	LF	107	\$4.11	\$439.77
711-11-141	Thermoplastic (Standard) (White) (D/G/E) (6")	LF	350	\$0.30	\$105.00
711-11-160	Thermoplastic (Standard) (White) (Message)	EA	17	\$119.20	\$2,026.40

711-11-170	Thermoplastic (Standard) (White) (Arrows)	EA	41	\$58.18	\$2,385.38
711-11-224	Thermoplastic (Standard) (Yellow) (Solid) (18")	LF	496	\$3.09	\$1,532.64
711-11-241	Thermoplastic (Standard) (Yellow) (D/G/E) (6")	LF	404	\$0.37	\$149.48
711-16-101	Thermoplastic (Standard - Other Surfaces) (White) (Solid) (6")	NM	3,357	\$3,902.73	\$13,101.46
711-16-102	Thermoplastic (Standard - Other Surfaces) (White) (Solid) (8")	LF	1243	\$0.93	\$1,155.99
711-16-131	Thermoplastic (Standard - Other Surfaces) (White) (Skip) (6")	GM	2,780	\$1,386.19	\$3,853.61
711-16-201	Thermoplastic (Standard - Other Surfaces) (Yellow) (Solid) (6")	NM	3,354	\$3,852.75	\$12,922.12
<b>SIGNING AND PAVEMENT MARKING SUB TOTAL</b>					<b>\$88,272.00</b>
<b>OTHER ITEMS</b>					
900-1	As-Built Plans	LS	1	\$50,000.00	\$50,000.00
900-2	Indemnification	LS	1	\$50,000.00	\$50,000.00
900-3	Groundwater Treatment and Disposal (5%)	LS	1	\$625,042.78	\$625,042.78
<b>OTHER ITEMS SUB TOTAL</b>					<b>\$725,042.78</b>
	Contingency (10%)	LS	1	\$953,911.97	\$953,911.97
<b>TOTAL</b>					<b>\$14,079,810.35</b>