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October 23, 2023

Tim Callanan
County Manager
Effingham County Board of Commissioners
804 S. Laurel Street
Springfield, GA 31329

**Re: Effingham County – Professional Transportation Design Services Fee Proposal –
Goshen Road Widening – Preliminary Design through Final Design**

Pond & Company (Pond) is pleased to submit this proposal for transportation engineering design services for the above project. The paragraphs below describe the professional services and fees to accomplish this work.

PROJECT UNDERSTANDING:

Traffic analysis and conceptual design services were completed for Effingham County to evaluate Goshen Road, from west of SR 21 to Hodgeville Road, specifically to determine if a two-way left turn lane (TWLTL) is a reasonable alternative based on existing conditions. As part of a previous task order/project, a conceptual layout and cost estimate was developed and presented to the county, upon which the county has decided to proceed with full engineering design. It is important to note that there are several additional programmed projects going on along this corridor. Close coordination will be required for these projects, including the Goshen Road at Hodgeville Road Roundabout, Effingham Pkwy from CR 156/Blue Jay Road/Effingham to SR 30/Chatham (PI #0006700), and Goshen Estates/LongLeaf Development. Upfront and ongoing coordination with the county and other consultants (Roberts Engineering, Atlas, and/or EMC Engineering) is critical to ensure seamless design and construction. Services to be completed under this project will include Preliminary Design through Final Design.

PROFESSIONAL SERVICES:

The work in this proposal will consist of developing preliminary through final construction plans. Pond, along with our subconsultants, will provide the design services necessary for completing the tasks as described herein for Effingham County.

Scope of Work

Task 1: Base Data Coordination

Task 1A. Survey – Survey services will be performed by a sub-consultant, Accura, and provided to Pond. The survey limits include approximately 3.53 miles along the centerline of Goshen Road, between Hodgeville Road and approximately 250’ west of SR 21. The width of survey limits is approximately 100’ along Goshen Road. Property research and resolution and property owner notification will also be performed as part of this task.

Task 1B. Subsurface Utility Engineering (SUE) Allowance – SUE QL-A (potholing) and/or SUE QL-B (GPR) services will be completed within project limits, as determined, and approved by Effingham County. It is assumed that the SUE services will not be completed in concurrence with the survey services.

Deliverables for Task 1:

- Survey Database

Task 2: Preliminary Design

Task 2A. Preliminary Design Plans – The Preliminary Plans deliverable will include roadway plans, roadway profile, driveway profiles, cross sections, utility plans, signing and marking plans, and erosion control plans. Pond will prepare the construction plans based on the topographic survey database (Task 1). The design plans will be prepared conforming to AASHTO, Manual on Uniform Traffic Control Devices (MUTCD), Effingham County, and Georgia Department of Transportation (GDOT) requirements and standards, as appropriate, using MicroStation V8i with InRoads or OpenRoads Connect (ORD) software. All turn lane improvements are based on queue lengths identified in the Traffic Engineering Report (previously submitted/approved), as well as GDOT minimum lengths.

Task 2B. Utility Plans and Coordination – As part of the First Submission Utility Request, Pond will prepare utility plans and submit to all provided utility owners for markups to determine existing facilities. We will incorporate the markups into the utility adjustment plans.

**The relocation of Effingham County Water facilities within project limits is assumed to be excluded from this project.*

Task 2C. Cost Estimate – Pond will prepare (1) detailed opinion of probable cost for the project. Pond will prepare a construction cost estimate and will provide R/W and easement areas for the county to cost. Utility costs will be by others.

Task 2D. Effingham County Review – Pond will submit the Preliminary Plans to Effingham County for comment/approval. This task includes (1) meeting with the county to discuss the plans. We will respond to (1) round of comments and incorporate appropriate comments into the plans (during Task 4).

Task 2E. CSX and Norfolk Southern (NS) Railroad Coordination and Review – Pond will submit the Preliminary Plans to both CSX and NS for comment/approval. Submittals will conform with the Public Projects Manual and checklists required for each railroad entity. This task includes (1) meeting with each railroad entity to discuss the plans. We will respond to (1) round of comments and incorporate appropriate comments into the plans (during Task 4).

Deliverables for Task 2:

- Preliminary Plans
- Cost Estimate

Task 3: Railroad Coordination

Task 3A. Railroad Coordination – During the preliminary design process, we will coordinate with Norfolk Southern Railroad and Georgia Department of Transportation – Division of Intermodal regarding the railroad crossings. This will include the modified at-grade Norfolk Southern railroad crossing between Gordon B Hinkley Avenue and Barrington Circle, as well as the CSX railroad crossing just east of Golden Drive.

Pond will coordinate with both railroad entities at project startup to discuss the scope of the project and determine improvement required, including at-grade crossing modifications (expected for both crossings), as well as the installation of new crossing gates (expected for both crossings). The Signal Department handles the maintenance and installation/modification of warning devices, and will provide engineering, design, and cost estimates for the warning devices at the expense of Effingham County. As part of this process, Pond will provide them with the plans at specified milestones for review and approval. From past experiences, the railroad entities typically require a Preliminary Engineering (PE) Agreement to be in place prior to review. In the event additional fees are incurred from the railroad, these fees will be the responsibility of Effingham County.

Task 4: Right of Way Plans

Task 4A. Right of Way Plans – After Preliminary Plan approval, we will prepare Right-of- Way plans per GDOT design guidelines. The Right-of-Way plans will include all required permanent Right-of-Way takes and all construction easements. This assumes impacting (78) parcels, as currently shown in the conceptual layout.

Task 4B. Effingham County Review – Pond will submit the Right-of-Way Plans to Effingham County for comment/approval. This task includes (1) meeting with the county to discuss the plans. We will respond to (1) round of comments and incorporate them into the plans as applicable.

Deliverables for Task 4:

- Right of Way Plans

Task 5: 90% and Final Design

Task 5A. 90% Design Plans – Based on all comments received from the Preliminary Plan submittal, we will further refine the plans. These plans will include compiling a list of all Preliminary Plan comments received and our responses, prior to incorporating into 90% Plans.

Task 5B. Utility Plans and Coordination – Pond will continue utility coordination efforts. Second Submission Utility Request will be coordinated with utility owners to finalize any utility conflicts and determine any proposed facility/utility relocations. All utility relocations will be designed by others and included in the utility coordination plans.

Task 5C. Cost Estimate – Pond will prepare (1) detailed opinion of probable cost/cost estimate for the project. Pond will prepare a construction cost estimate and will provide R/W and easement areas for the county to cost. Utility costs will be by others.

**The relocation of Effingham County Water facilities within project limits is assumed to be excluded from this project.*

Task 5D. Effingham County Review – Pond will submit 90% Plans to Effingham County for comment/approval. This task includes (1) meeting with the county to discuss the plans. We will respond to (1) round of comments and incorporate them into the plans as applicable.

Task 5E. CSX and Norfolk Southern (NS) Railroad Coordination and Review – Pond will submit the 90% Plans to both CSX and NS for comment/approval. Submittals will conform with the Public Projects Manual and checklists required for each railroad entity. This task includes (1) meeting with each railroad entity to discuss the plans. We will respond to (1) round of comments and incorporate appropriate comments into the plans.

Deliverables for Task 5:

- 90% Plans
- Final Plans
- Cost Estimate

Task 6: Miscellaneous Services/Contingency

Task 6A. Miscellaneous Services/Contingency Services – This task will include miscellaneous funding to apply to any out of-scope items and/or risks encountered during design.

Schedule

Pond has estimated that *Task 1* through *Task 5* listed above can be completed within (18) months, following Notice to Proceed (NTP) from Effingham County and completion of survey services. Please note that this schedule timeframe is also dependent on subconsultant scheduling and agency review times, including Effingham County, Norfolk Southern, and CSX Railroad.

ASSUMPTIONS:

The design plans will be prepared as a locally funded project.

Services or tasks not specifically outlined above are excluded and would be considered additional services. Services not included in the scope:

- Concept Design
- Traffic Analysis
- Traffic Data Collection
- Traffic Engineering Report
- Intersection Control Evaluation (ICE) Process
- Traffic Signal Plans
- ITS/Signal Communications Plans
- Lighting Plans
- Landscaping Plans
- Subsurface Utility Engineering (SUE) Services - Beyond Task 1
- GDOT Plan Development Process (PDP)



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- GDOT Concept Report
- Additional Meetings
- MS4 Analysis/Documentation
- Public Involvement
- Geotechnical Services
- Phasing of Construction and/or Design
- Hydraulic Investigation
- Detailed Field Surveys for Natural or Cultural Resources
- Environmental Services, Permitting or Consultation
- Right-of-Way Staking, Right of Way Acquisition Services/Assistance
- Post Design, Construction Administration, and Bidding Assistance Services
- Other Items Beyond Scope Listed in Task 1 through Task 6
- Railroad Preliminary Engineering Review or Other Associated Fees
- Structural Design and/or Analysis

PROFESSIONAL FEES:

Pond proposes to accomplish *Task 1* through *Task 6* for a Not-to-Exceed Lump Sum total of \$985,999.85. The fee details are listed in the attached Man-Hour Estimate.

- *Task 1* – Base Data Coordination: \$296,066.61
- *Task 2* – Preliminary Design: \$299,949.12
- *Task 3* – Railroad Coordination: \$32,757.78
- *Task 4* – Right of Way Plans: \$89,123.40
- *Task 5* – 90% and Final Design: \$168,102.94
- *Task 6* – Miscellaneous Services/Contingency: \$100,000.00

These fees are based on the contracted unit rates, not to exceed total of \$985,999.85.

If this fee and scope is acceptable, Pond & Company is available to begin work immediately. If you would like to discuss or modify the scope please contact me at FangmannR@pondco.com or Zach Puckett, who will serve as the Project Manager, at PuckettZ@pondco.com or via phone at (678) 336-7740.

Sincerely,

POND & COMPANY

Richard Fangmann, PE, PTOE
Vice-President

Cc: Zach Puckett, PE
Melissa Phillips

Attachments:
Man-Hour Estimates

Effingham County

Goshen Road Widening Hodgeville Road to West of SR 21 Project Length 3.53 miles

SUMMARY BY PHASE

COST AMOUNT OF CONTRACT PROPOSAL

10/23/2023

	PHASE AMOUNTS
Phase 1 Base Data Coordination	\$ 296,066.61
Phase 2 Preliminary Design	\$ 299,949.12
Phase 3 Railroad Coordination	\$ 32,757.78
Phase 4 Right of Way Plans	\$ 89,123.40
Phase 5 90% and Final Design	\$ 168,102.94
Phase 6 Miscellaneous Services/Contingency	\$ 100,000.00
TOTAL DESIGN COST FOR ALL SEGMENTS	\$ 985,999.85

Effingham County

Phase 1 Summary

PROJECT: Goshen Road Widening Hodgesville Road to West of SR 21

Phase 1

Base Data Coordination

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	2	\$ 204.87	\$ 409.74	
PROJECT MANAGER	58	\$ 194.36	\$ 11,272.88	
SENIOR ENGINEER	29	\$ 162.84	\$ 4,722.36	
MID LEVEL ENGINEER	33	\$ 115.57	\$ 3,813.81	
SENIOR LANDSCAPE ARCHITECT	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	8	\$ 68.29	\$ 546.32	

TOTAL DIRECT LABOR 130 Manhours \$ **20,765.11**

DIRECT COSTS (SPECIFY):

ITEM	UNIT COST	QUANTITY	TOTALS
MILEAGE	\$ 0.55	550	\$ 302.50
REPRODUCTION	\$ 150.00	0	\$ -
MAIL & DELIVERY	\$ 50.00	0	\$ -
TRAVEL	\$ -	0	\$ -
			\$ -

Direct Cost Total \$ 302.50

SUBCONSULTANTS (LIST):

SUB CONSULTANT	TOTALS
Survey Services	\$ 184,073.00
SUE Allowance	\$ 90,926.00

Subconsultant Sub Total \$ 274,999.00

COST AMOUNT FOR PHASE \$ 296,066.61

Effingham County

Phase 2 Summary

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21

Phase 2

Preliminary Design

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	12	\$ 204.87	\$ 2,458.44	
PROJECT MANAGER	365	\$ 194.36	\$ 70,941.40	
SENIOR ENGINEER	540	\$ 162.84	\$ 87,933.60	
MID LEVEL ENGINEER	1187	\$ 115.57	\$ 137,181.59	
SENIOR LANDSCAPE AF	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	21	\$ 68.29	\$ 1,434.09	

TOTAL DIRECT LABOR 2125 Manhours **\$ 299,949.12**

DIRECT COSTS (SPECIFY):

ITEM	UNIT COST	QUANTITY	TOTALS
MILEAGE	\$ 0.55	0	\$ -
REPRODUCTION	\$ 150.00	0	\$ -
MAIL & DELIVERY	\$ 50.00	0	\$ -
TRAVEL	\$ -	0	\$ -
			\$ -

Direct Cost Total \$ -

SUBCONSULTANTS (LIST):

SUB CONSULTANT	TOTALS
	\$ -

Subconsultant Sub Total \$ -

COST AMOUNT FOR PHASE \$ 299,949.12

Effingham County
Phase 2 Detail

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21
Phase 2
Preliminary Design

TASKS	Assumptions	No. of SHT	PRINCIPAL	PROJECT MANAGER	SENIOR ENGINEER	MID LEVEL ENGINEER	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT	ADMINISTRATIVE	TOTAL	% OF TOTAL HOURS
Non-Drawing Tasks											
Project Management	Invoices, progress reports (assumed 6 months duration)(1 hr/each)		12	246					6	264	12.4%
External Coordination Meeting	3 external meetings @ 1 hr per meeting (virtual)			3	3	3			3	12	0.6%
Internal Coordination Meeting	12 internal meetings @ 1 hr per meeting			18	18	18			12	66	3.1%
Quality Control (assumes Preliminary Plan Review)				8	40	18				66	3.1%
Drawing Tasks											
Horizontal Alignment				4	16	24				44	2.1%
Vertical Alignment				4	16	36				56	2.6%
Typical Sections				4	4	24				32	1.5%
Cover Sheet, Index, General Notes, etc.				4	8	24				36	1.7%
Quantities				4	16	40				60	2.8%
Plan View - Construction Plans				36	235	480				751	35.3%
Roadway Profiles				2	4	16				22	1.0%
Driveway Profiles				2	24	60				86	4.0%
Special Grading											
Staging Layout											
Drainage Layout/Profiles				2	24	80				106	5.0%
Cross Sections				2	24	80				106	5.0%
Utility Plans				2	16	40				58	2.7%
Utility Coordination	1st Submission			4	24	60				88	4.1%
Signing and Marking				8	24	60				92	4.3%
Erosion Control				4	24	80				108	5.1%
Cost Estimate				4	16	40				60	2.8%
Site Visit											
PFPR Meeting	Virtual			4	4	4				12	0.6%
TOTALS		0	12	365	540	1187	0	0	21	2125	100.0%

Effingham County

Phase 3 Summary

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21

Phase 3

Railroad Coordination

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	0	\$ 204.87	\$ -	
PROJECT MANAGER	48	\$ 194.36	\$ 9,329.28	
SENIOR ENGINEER	80	\$ 162.84	\$ 13,027.20	
MID LEVEL ENGINEER	90	\$ 115.57	\$ 10,401.30	
SENIOR LANDSCAPE AF	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	0	\$ 68.29	\$ -	

TOTAL DIRECT LABOR	218 Manhours		\$ 32,757.78
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DIRECT COSTS (SPECIFY):

ITEM	UNIT COST	QUANTITY	TOTALS
MILEAGE	\$ 0.55	0	\$ -
REPRODUCTION	\$ 150.00	0	\$ -
MAIL & DELIVERY	\$ 50.00	0	\$ -
TRAVEL	\$ -	0	\$ -
			\$ -

Direct Cost Total \$ -

SUBCONSULTANTS (LIST):

SUB CONSULTANT	TOTALS
	\$ -
	\$ -

Subconsultant Sub Total \$ -

COST AMOUNT FOR PHASE \$ 32,757.78

Effingham County

Phase 4 Summary

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21

Phase 4

Right of Way Plans

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	12	\$ 204.87	\$ 2,458.44	
PROJECT MANAGER	101	\$ 194.36	\$ 19,630.36	
SENIOR ENGINEER	144	\$ 162.84	\$ 23,448.96	
MID LEVEL ENGINEER	373	\$ 115.57	\$ 43,107.61	
SENIOR LANDSCAPE AF	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	7	\$ 68.29	\$ 478.03	
TOTAL DIRECT LABOR				637 Manhours
			\$	89,123.40
DIRECT COSTS (SPECIFY):				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.55	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
			\$ -	
Direct Cost Total				\$ -
SUBCONSULTANTS (LIST):				
SUB CONSULTANT			TOTALS	
			\$ -	
			\$ -	
Subconsultant Sub Total				\$ -
COST AMOUNT FOR PHASE			\$	89,123.40

Effingham County

Phase 5 Summary

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21

Phase 5

90% and Final Design

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	8	\$ 204.87	\$ 1,638.96	
PROJECT MANAGER	234	\$ 194.36	\$ 45,480.24	
SENIOR ENGINEER	263	\$ 162.84	\$ 42,826.92	
MID LEVEL ENGINEER	668	\$ 115.57	\$ 77,200.76	
SENIOR LANDSCAPE AF	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	14	\$ 68.29	\$ 956.06	
TOTAL DIRECT LABOR				\$ 168,102.94
DIRECT COSTS (SPECIFY):				
ITEM	UNIT COST	QUANTITY	TOTALS	
MILEAGE	\$ 0.55	0	\$ -	
REPRODUCTION	\$ 150.00	0	\$ -	
MAIL & DELIVERY	\$ 50.00	0	\$ -	
TRAVEL	\$ -	0	\$ -	
			\$ -	
Direct Cost Total				\$ -
SUBCONSULTANTS (LIST):				
SUB CONSULTANT			TOTALS	
			\$ -	
Subconsultant Sub Total				\$ -
COST AMOUNT FOR PHASE				\$ 168,102.94

Effingham County
Phase 5 Detail

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21
Phase 5
90% and Final Design

TASKS	Assumptions	No. of SHT	PRINCIPAL	PROJECT MANAGER	SENIOR ENGINEER	MID LEVEL ENGINEER	SENIOR LANDSCAPE ARCHITECT	LANDSCAPE ARCHITECT	ADMINISTRATIVE	TOTAL	% OF TOTAL HOURS
Non-Drawing Tasks											
Project Management	Invoices, progress reports (assumed 4 month duration)(1 hr/each)		8	164					4	176	14.8%
External Coordination Meeting	2 external meetings @ 1 hr per meeting (virtual)			2	2	2			2	8	0.7%
Internal Coordination Meeting	8 internal meetings @ 1 hr per meeting			10	10	10			8	38	3.2%
Quality Control (assumes ROW Plan Review)				4	40	16				60	5.1%
Drawing Tasks											
<i>Finalize/Revisions to the Following:</i>											
Respond to Preliminary Comments				2	8	40				50	4.2%
Horizontal Alignment				2	6	16				24	2.0%
Vertical Alignment				2	6	16				24	2.0%
Typical Sections				2	2	16				20	1.7%
Cover Sheet, Index, General Notes, etc.				2	1	16				19	1.6%
Quantities				2	8	16				26	2.2%
Plan View - Construction Plans				8	45	120				173	14.6%
Roadway Profiles				2	4	8				14	1.2%
Driveway Profiles				2	11	40				53	4.5%
Special Grading											
Staging Layout											
Drainage Layout				2	12	40				54	4.5%
Cross Sections				2	8	40				50	4.2%
Utility Plans				2	5	40				47	4.0%
Utility Coordination	2nd Submission			4	16	40				60	5.1%
Signing and Marking				2	15	40				57	4.8%
Erosion Control				2	16	60				78	6.6%
Fastest Path Analysis											
Turning Movement Template											
Cost Estimate				2	6	24				32	2.7%
FFPR Meeting											
FFPR Meeting	Virtual			4	4	4				12	1.0%
Final Plans Comments											
Final Plans Comments	Responses for Final Plan Comments			2	4	24				30	2.5%
Addresss FFPR Plans Comments				4	24	24				52	4.4%
Submit Corrected FFPR Plans/Bid Plans				2	4	8				14	1.2%
Prepare Bid Cost Estimate				2	6	8				16	1.3%
TOTALS		0	8	234	263	668	0	0	14	1187	100.0%

Effingham County

Phase 6 Summary

PROJECT: Goshen Road Widening Hodgeville Road to West of SR 21

Phase 6

Miscellaneous Services/Contingency

PERSONNEL	EST. HOURS	RATE/HR.	COST \$	TOTALS
PRINCIPAL	0	\$ 204.87	\$ -	
PROJECT MANAGER	0	\$ 194.36	\$ -	
SENIOR ENGINEER	0	\$ 162.84	\$ -	
MID LEVEL ENGINEER	0	\$ 115.57	\$ -	
SENIOR LANDSCAPE AF	0	\$ 162.84	\$ -	
LANDSCAPE ARCHITECT	0	\$ 131.33	\$ -	
ADMINISTRATIVE	0	\$ 68.29	\$ -	

TOTAL DIRECT LABOR	0 Manhours	\$ 100,000.00
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DIRECT COSTS (SPECIFY):

ITEM	UNIT COST	QUANTITY	TOTALS
MILEAGE	\$ 0.55	0	\$ -
REPRODUCTION	\$ 150.00	0	\$ -
MAIL & DELIVERY	\$ 50.00	0	\$ -
TRAVEL	\$ -	0	\$ -
			\$ -

Direct Cost Total \$ -

SUBCONSULTANTS (LIST):

SUB CONSULTANT	TOTALS
	\$ -

Subconsultant Sub Total \$ -

COST AMOUNT FOR PHASE \$ 100,000.00

