



300 Bull Street  
Suite 200  
Savannah, Georgia 31401

(912) 231-0044  
[www.moffattnichol.com](http://www.moffattnichol.com)

June 3, 2025

Jonathan Hulme, PE  
County Engineer  
804 S Laurel Street  
Springfield, GA 31329

Dear Jonathan:

Moffatt & Nichol (M&N) is pleased to submit this proposal to Effingham County to provide professional services for the surveying, design and permitting for the Blue Jay Road turn lanes and shared-use path. This includes widening Blue Jay Road at 4 areas to provide center left turn lane and limited right turn lanes, per the 11/26/24 concept plans, abridged (Appendix A) and county-redlined typical section (Appendix B) of the Policy Guidance document, completed by Pond & Company. In addition, a 10' wide shared-use path will be designed on the north side of Blue Jay Road from Sandhill Road to Effingham Parkway (approximately 8 miles).

M&N's experience with the County, understanding of your expectations and processes, combined with local staff who are experienced providing roadway design services makes our team a proven selection for successful delivery of this important project for Effingham County. Designed to practical considerations, not perfection, our team provides timely and cost-effective designs, mindful of the County's finite resources.

As IDC Project Manager, please consider this letter as confirmation that our team of M&N, TerraMark and Sligh Environmental can commit the necessary resources to meet the requirements specified in this RFP. This team was assembled based on a long history of successful performance in the past. Detailed scope of TerraMark and Sligh Environmental are attached as Appendix C and D, respectively.

If you would like to discuss any specifics of this proposal please feel free to contact me directly at [rosterloh@moffattnichol.com](mailto:rosterloh@moffattnichol.com) or (678) 525-1632.

Kindest Regards,

**MOFFATT & NICHOL**

A handwritten signature in blue ink, appearing to read 'ROSTERLOH', is written over a faint, light blue circular stamp or watermark.

Ron Osterloh, PE

Vice President

Appendix A: Abridged concept plans, Pond & Co., dated 11/26/24  
Appendix B: County-redlined typical section, Pond & Co., Policy Guidance Document  
Appendix C: TerraMark survey scope and fee  
Appendix D: Sligh Environmental scope and fee

## Proposed work plan

**Project Team:** The Moffatt & Nichol Team includes staff who are experienced with roadway design and project delivery in Effingham County. The proposed Project Manager is Kevin Skinner PE alongside the Principal-In-Charge, Ron Osterloh PE. Lead Engineer is Ravi Vachhani PE, with support from Sarah Ugolik PE, David Logan EIT, Lalsi Khup and Amy Harper.

**Project schedule:** Given the fact that the project is 100% locally funded and the roadway is local, there are opportunities to streamline and accelerate the schedule. Our design team utilizes the understanding of GDOT design processes, but without the delays of the GDOT Plan Development Process (PDP). This results in designs completed in months, not years. Successful progress on the Blue Jay Road at Sandhill Road is evidence that M&N values our relationship with the county and will commit the resources needed to accomplish a quality design, while meeting the proposed schedule.

Easement and right-of-way acquisition will be necessary for the pavement widening and storm drainage improvements. It should be noted that the existing R/W width varies significantly, according to the GIS, with some widths showing as little as 20' wide. Special care will be given to avoid existing fences wherever possible.

**Environmental Concerns and Permitting:** Several open waters, potential wetlands and stormwater channels exist along the segments where turn lanes are proposed. Delineation of open waters and other jurisdictional waters is necessary to ensure compliance with federal and state regulations. By careful design, we can achieve the goal of minimizing impacts to United States Corps of Engineers (USACE) waters and will keep the project moving and cost to a minimum. For the path, this may mean constructing boardwalk or short retaining walls to avoid and minimize impacts.

**Plan Development:** We can't control the contractor's timeline, but with a quality design and awareness of potential construction risks, our team can provide plans that minimize risk for potential construction delays. This includes having our engineer walk the site and perform an on-site review of the survey. Having a dedicated utility coordinator like Sarah Ugolik, with an understanding of utility relocation will help ensure costly and time-consuming relocations are avoided wherever possible.

Our team has reviewed available online information from numerous sources and will move to confirm the conceptual turn lanes layout with the County. This includes speed design on the corridor, which varies from 35 to 55 mph. With the upcoming completion of Effingham Parkway, traffic patterns will shift in the area and turn lanes in these four areas will become even more important. Our traffic team will model future volumes and movements to identify the most appropriate turn lane lengths and locations. While the widening of the road to provide a center turn lane is straight forward, attention to detail regarding superelevation, ditch calculations, driveways and utilities will help ensure the design results a safe and efficient roadway for years to come.

The shared-use path on Blue Jay Road will connect to the 10' paths on Effingham Parkway on the east, with proposed SR 17 trail near the western end, multiplying its access and usefulness.

While much of the north side of Blue Jay Road is open and relatively flat, there are numerous gates, fences, utility poles and guy wires, fire hydrants, utility vaults, mature trees and other items that will require meandering, avoiding and minimizing impacts.

With the exception of the Oak Lawn Drive, the entire corridor contains rural shoulders with open channel drainage, making the addition of the shared-use path achievable and straightforward.

Preliminary design will include cover, index, general notes, typical sections, construction layout, construction plans, profiles, staging plans, drainage profiles, cross sections, utility relocation (if needed), signing and marking plans, and erosion control plans.

There are over 75 driveway crossings on the north side of the road, several of which will require some reconstruction. Consideration will be made to adjust or reconstruct access with minimal disruption and cost, while safely conveying stormwater through driveway culverts.

After review and confirmation of preliminary plans from the County, Right of Way Plans will be prepared. Required right of way, permanent and driveway easements will be detailed in plan view and data tables, suitable for acquisition agents to purchase the property.

While right of way acquisition is underway, construction plans will be finalized, quantities tabulated, and any permits acquired. The design team will finalize special provisions, bid schedule and construction documents in preparation for letting. The Moffatt & Nichol team will be a partner with the County through advertisement, bidding, and construction. Construction services will be billed hourly per the attached rate table and are expected to include participation in preconstruction/kickoff meeting, reviewing pay requests, answering RFIs, site inspections, status meetings and project closeout/walkthrough.

The graphic below shows the four areas of proposed center and right turn lanes.



### Qualifications/exclusions:

1. R/W acquisition will be performed by the county.
2. Ecology scope includes delineation, flagging, Jurisdictional Determination (JD) with USACE and 404 permit. Permit is assumed to be a Nationwide Permit or Regional Permit, not an individual permit, which would require additional effort and fee.
3. If needed, wetland/stream mitigation will be the responsibility of the county.



## Blue Jay Road corridor improvements – Shared-Use Path & Turn Lanes

4. Bidding services and construction administration are available at the hourly rates shown, but is currently not included.
5. Geotechnical services are not included, but may be added if desired.

### **Effingham County Board of Commissioners**

Approved: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



Project Schedule: Blue Jay Road Turn Lanes	2025						2026					
	July	August	September	October	November	December	January	February	March	April	May	June
Task 1- Database Preparation												
Task 2- Preliminary Design												
Task 3- Right-of-Way Plans												
Task 4- Permitting (LDP & potential for 404/SBV)												
Task 5- Final Design												
Task 6- R/W Acquisition (by county)*												
Task 7- Bid Assistance & Construction Services**												

\* duration to be confirmed with Effingham Co.

\*\* hourly, additional cost

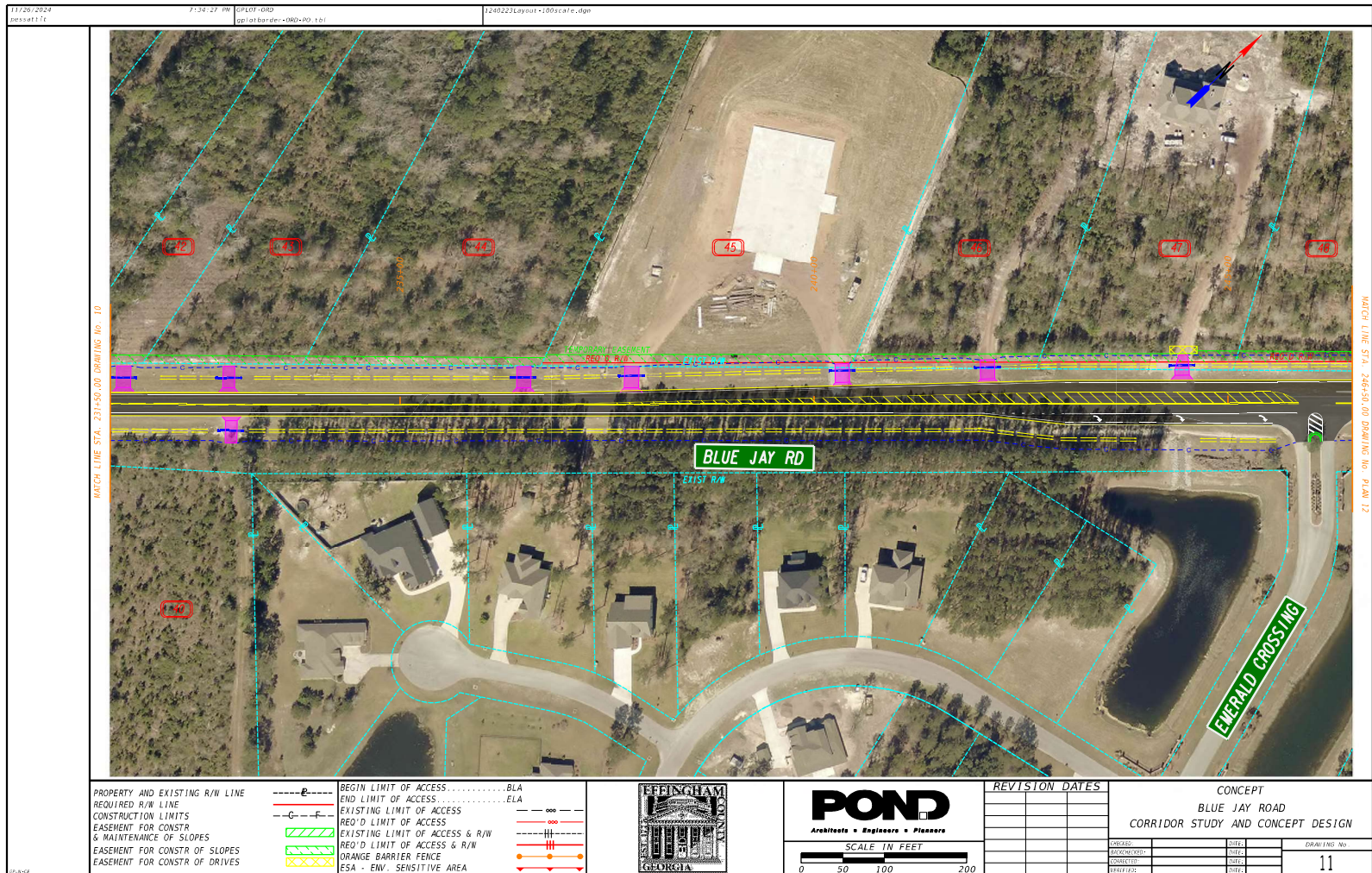
Effingham County -  
Scope of Services, Fee Schedule, and Project Engineering Cost Estimate  
Project No:  
Date: 6/3/2025  
Description: Blue Jay Road - Shared-Use Path and Turn Lanes at 4 Locations  
Fee Type: Lump Sum

Blue Jay Road - Shared-Use Path and Turn Lanes at 4 Locations

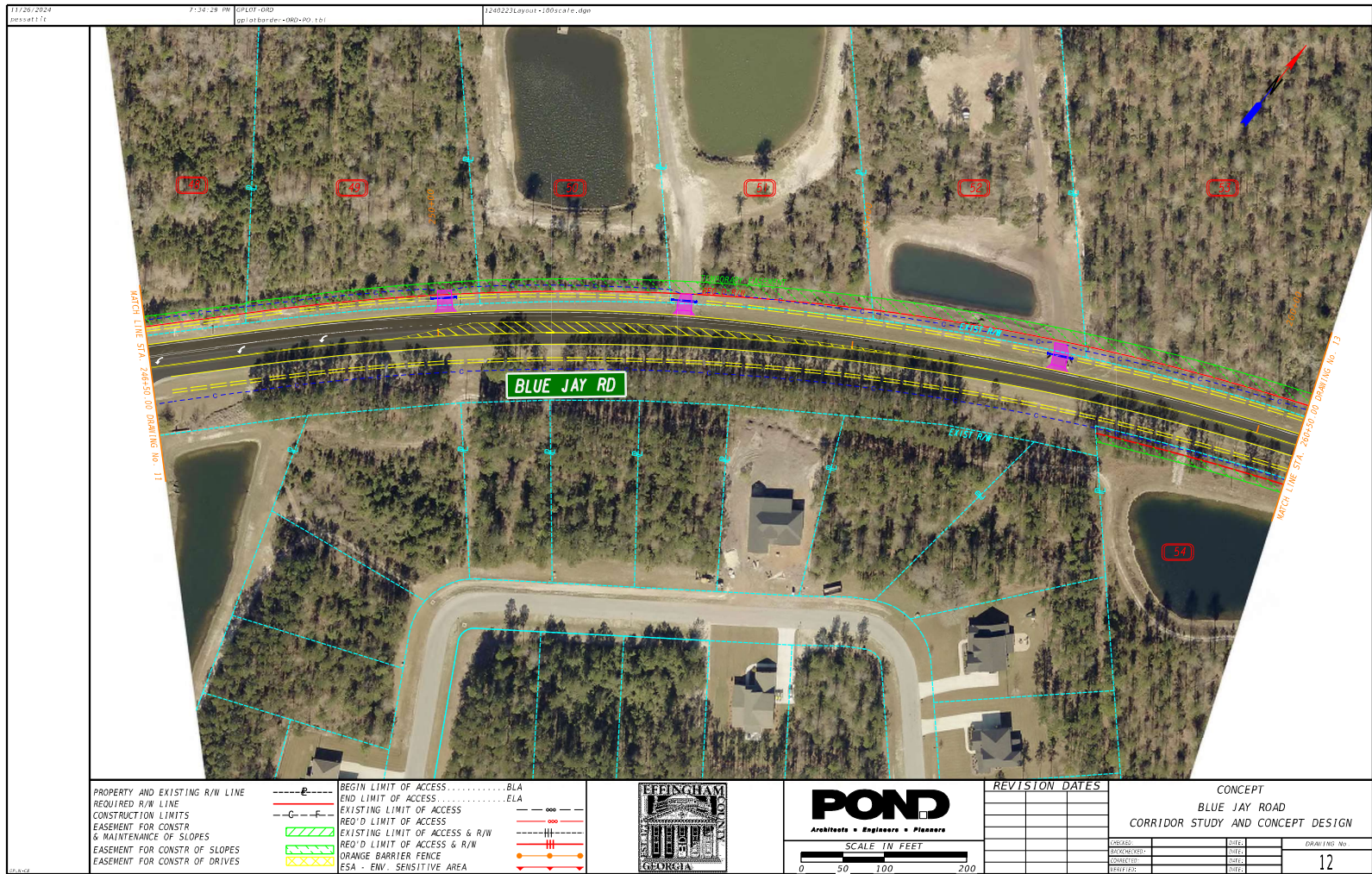


Item No.	Item Description	Total Cost	Total Subs	Labor cost	Total Hours	Moffatt & Nichol						Subconsultants	
						Principal	Project Manager	Senior Transp. Engineer	Transp. Engineer	Transp. Technician	Clerical / Admin.	Survey	Environmental sub
						\$ 250.00	\$ 210.00	\$ 173.00	\$ 158.00	\$ 105.00	\$ 82.00		
	<b>TOTAL</b>	<b>\$537,644</b>	<b>\$237,760</b>	<b>\$299,884</b>	<b>1702</b>	<b>\$ 11,000</b>	<b>\$ 61,320</b>	<b>\$ 62,972</b>	<b>\$ 134,300</b>	<b>\$ 28,980</b>	<b>\$ 1,312</b>	<b>\$ 220,260</b>	<b>\$ 17,500</b>
1	Task 1: Survey & Environmental	\$237,760	\$237,760	\$0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220,260	\$ 17,500
2	Task 2: Management and Administration	\$60,384	\$0	\$60,384	148	\$ 9,000	\$ 50,400	\$ -	\$ -	\$ -	\$ 984	\$ -	\$ -
3	Task 3: Prepare Preliminary Plans	\$135,700	\$0	\$135,700	892	\$ -	\$ 840	\$ 27,680	\$ 91,640	\$ 15,540	\$ -	\$ -	\$ -
4	Task 4: Prepare R/W Plans	\$26,492	\$0	\$26,492	178	\$ -	\$ 1,260	\$ 6,920	\$ 13,272	\$ 5,040	\$ -	\$ -	\$ -
5	Task 5: Prepare Final Plans	\$77,308	\$0	\$77,308	484	\$ 2,000	\$ 8,820	\$ 28,372	\$ 29,388	\$ 8,400	\$ 328	\$ -	\$ -
1	Task 1: Survey & Environmental	Assumptions	\$237,760	\$0	0	0	0	0	0	0	0	\$ 220,260.00	\$ 17,500.00
	Topographic and property survey (TerraMark)		\$ 220,260	\$0	0							\$ 220,260.00	
	Ecology delineation, ID & Permitting only (Sligh Env.)		\$ 17,500	\$0	0								\$ 17,500.00
2	Task 2: Management and Administration	Assumptions	\$0	\$60,384	288	36	240	0	0	0	12	\$ -	\$ -
	Project meetings, site inspection		\$ -	\$30,200	140	20	120						
	Administration		\$ -	\$30,184	148	16	120				12		
3	Task 3: Prepare Preliminary Plans	Assumptions	\$0	\$135,700	892	0	4	160	580	148	0	\$ -	\$ -
	Traffic confirmation		\$ -	\$5,056	32				32				
	Cover, index, general notes		\$ -	\$4,060	28			4	16	8			
	Typical sections		\$ -	\$2,376	16			4	8	4			
	Geometric layout		\$ -	\$23,648	152			32	104	16			
	Construction plans		\$ -	\$14,680	96			24	56	16			
	Roadway profiles		\$ -	\$10,768	72			16	40	16			
	Driveway profiles		\$ -	\$11,912	80			8	56	16			
	Drainage profiles		\$ -	\$3,220	20			4	16				
	Cross Sections		\$ -	\$12,544	84			8	60	16			
	Signing and marking plans		\$ -	\$12,544	84			8	60	16			
	Utility coordination and plans		\$ -	\$5,324	36			4	24	8			
	Boardwalk design and plans		\$ -	\$18,920	120		4	40	60	16			
	Erosion control plans		\$ -	\$10,648	72			8	48	16			
4	Task 4: Prepare R/W Plans	Assumptions	\$0	\$26,492	178	0	6	40	84	48	0	\$ -	\$ -
	Plan Views		\$ -	\$12,024	84		4	16	32	32			
	Data Tables		\$ -	\$9,504	64			16	32	16			
	R/W revisions		\$ -	\$4,964	30		2	8	20				
5	Task 5: Prepare Final Plans	Assumptions	\$0	\$77,308	484	8	42	164	186	80	4	\$ -	\$ -
	Cover, index, general notes		\$ -	\$4,060	28			4	16	8			
	Typical sections		\$ -	\$2,376	16			4	8	4			
	Geometric layout		\$ -	\$4,388	32			4	16	8	4		
	Construction plans		\$ -	\$5,444	36			12	16	8			
	Roadway profiles		\$ -	\$4,752	32			8	16	8			
	Driveway profiles		\$ -	\$4,060	28			4	16	8			
	Drainage profiles		\$ -	\$1,956	12			4	8				
	Cross Sections		\$ -	\$3,428	24			4	12	8			
	Signing and marking plans		\$ -	\$3,428	24			4	12	8			
	Utility coordination and plans		\$ -	\$3,008	20			4	12	4			
	Boardwalk design and plans		\$ -	\$9,460	60		2	20	30	8			
	Erosion control plans		\$ -	\$5,324	36			4	24	8			
	Quantities/cost estimate		\$ -	\$10,984	60	4	8	48					
	Quality control review		\$ -	\$14,640	76	4	32	40					

## **Appendix A**







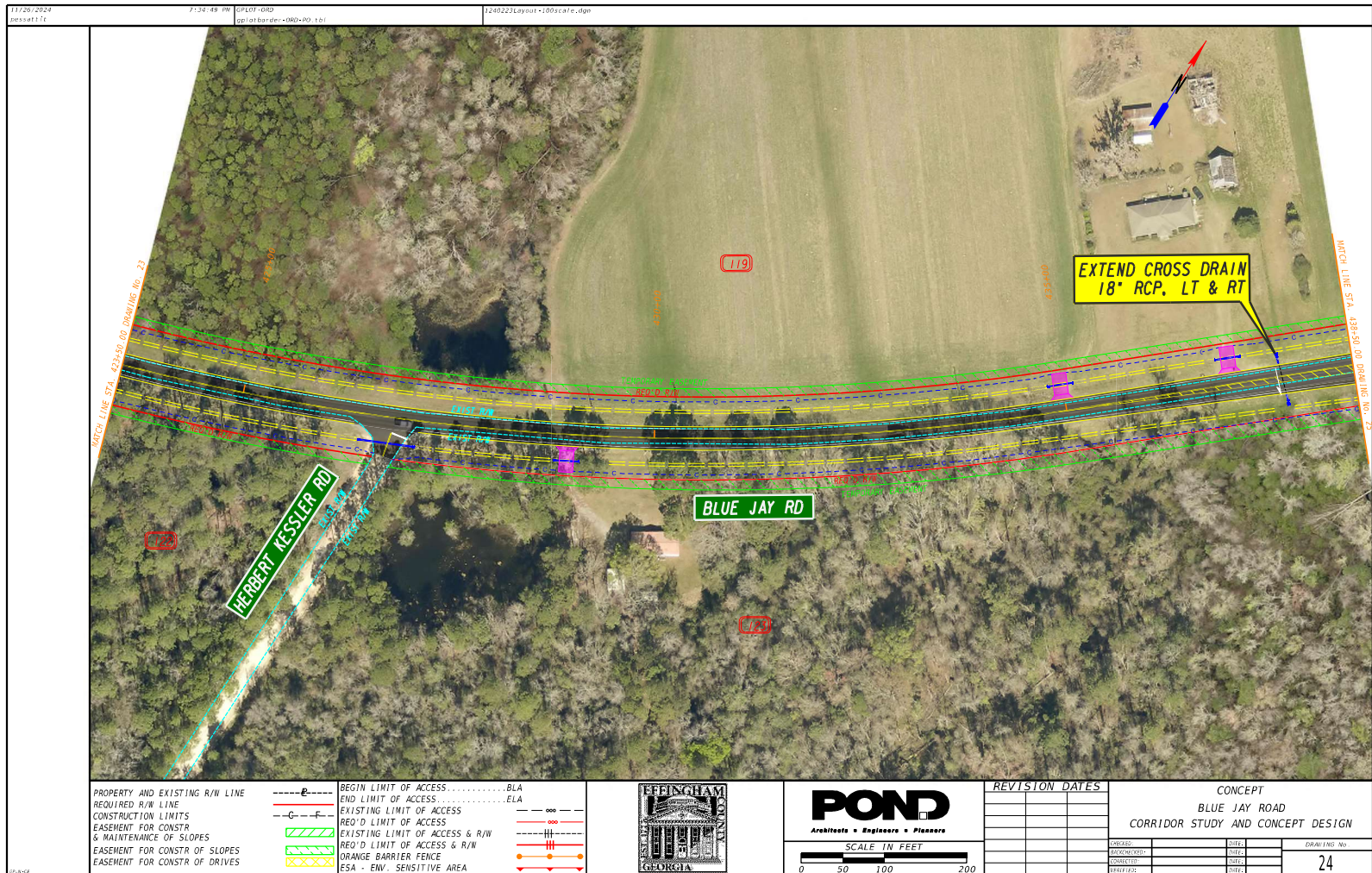




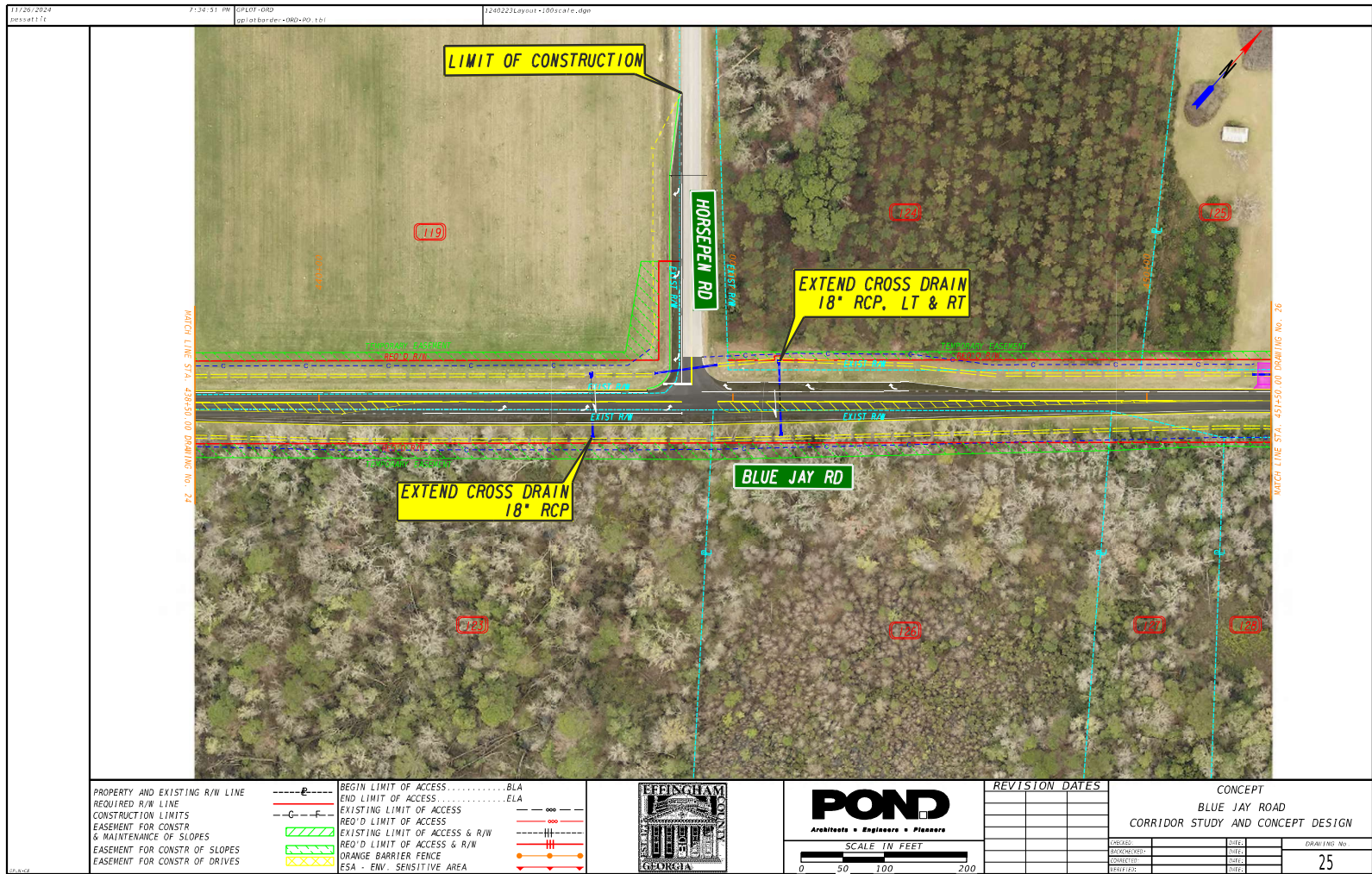








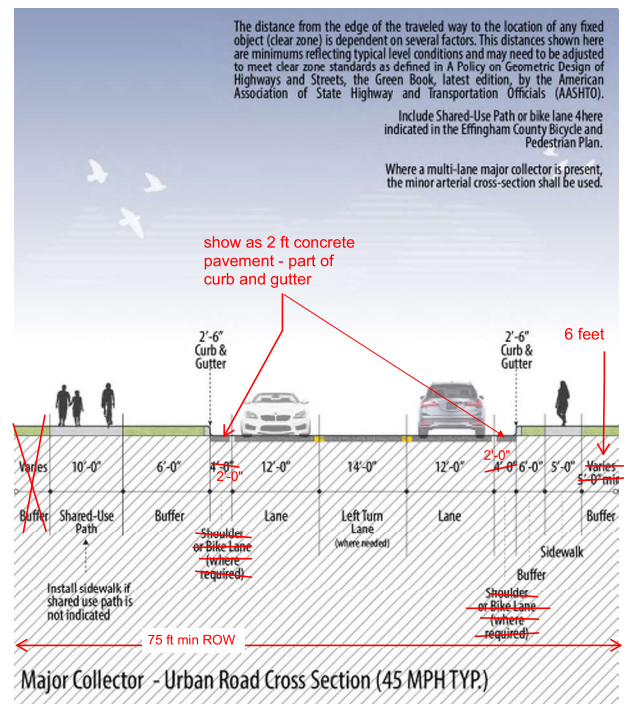
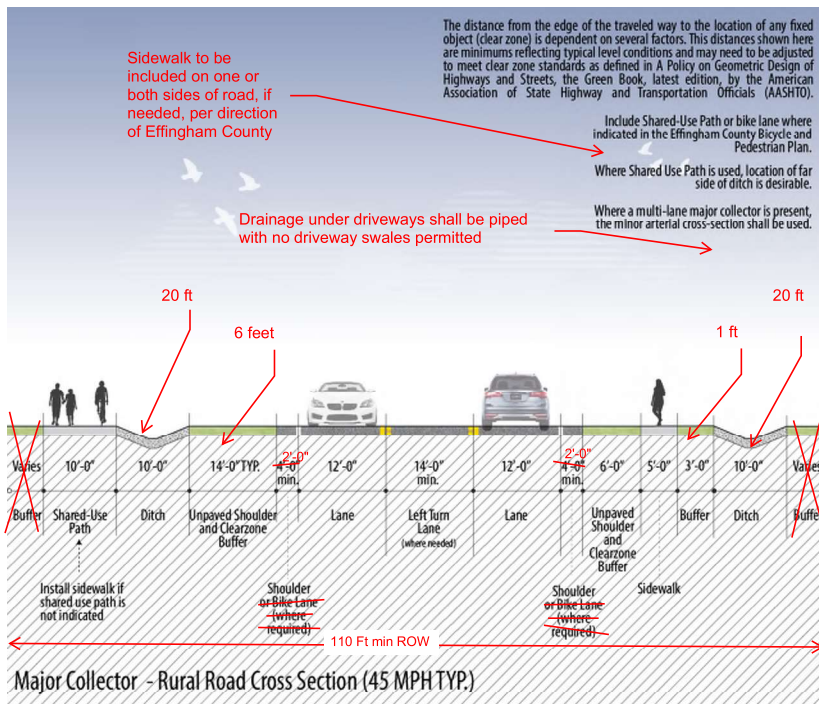








## **Appendix B**



## **Appendix C**



May 7, 2025

Kevin Skinner, PE  
Sr. Transportation Engineer  
**Moffatt & Nichol**  
1201 Peachtree Street, NE; Suite 1106  
Atlanta, Georgia 30361

RE: **Effingham County, Georgia**  
**Blue Jay Road – 4 Intersection Improvements**

Please find below the specifics to the referenced Task Order above:

**REQUEST FOR PROPOSAL:**

Property & Topographic Survey, dated May 5, 2025

**PURPOSE:**

To support the planning, design and construction of improvements at the intersection.

**CLIENT RESPONSIBILITIES:**

The below shall be reviewed by the County and discussed with TerraMark at the project kick-off and/or prior to beginning field data collection:

1. Provide TerraMark with any information that the County may have knowledge, which could support the survey process.
2. Provide TerraMark with any Record Drawings, DOT Plans/RW Plans, Easements, Property Data, Utility Data or other relevant information that could assist in the preparation and completion of the survey database.

**FEES:**

***Intersection #1 – Emerald Crossing***

Task 1. TerraMark Surveying Services (Estimate)	\$24,120.00
Task 2. Travel Expenses (Estimate)	<u>\$ 7,635.00</u>
<b>Total (Budget Fee)</b>	<b>\$31,755.00</b>

***Intersection #2 – Greystone Drive***

Task 1. TerraMark Surveying Services (Estimate)	\$23,345.00
Task 2. Travel Expenses (Estimate)	<u>\$ 7,635.00</u>
<b>Total (Budget Fee)</b>	<b>\$30,980.00</b>

***Intersection #3 – Horsepen Road***

Task 1. TerraMark Surveying Services (Estimate)	\$19,320.00
Task 2. Travel Expenses (Estimate)	<u>\$ 6,315.00</u>
<b>Total (Budget Fee)</b>	<b>\$25,635.00</b>

***Intersection #4 – Oaklawn Drive***

Task 1. TerraMark Surveying Services (Estimate)	\$17,125.00
Task 2. Travel Expenses (Estimate)	<u>\$ 4,325.00</u>
<b>Total (Budget Fee)</b>	<b>\$21,450.00</b>

**Project Grand Total** **\$109,820.00**



**SCHEDULE:**

TerraMark will endeavor to complete the requested work and provide you with our deliverables for Intersection #1, within **35 Calendar Days** from Notice-to-Proceed. Subsequent intersections will follow in order, every **25 Calendar Days**, thereafter.

**LOCATION/LIMITS OF SURVEY:**

The project encompasses approximately 10,000 linear feet of topography as shown on “Survey Limits” provided in the Appendix. The survey areas lie within Georgia Militia Districts 9, 10 & 1559 of Effingham County, Georgia. There appear to be up to ten (10) properties to locate and identify within the survey area.

**SCOPE OF SURVEYING SERVICES:**

The survey shall include the following as a minimum:

**Tasks: (Surveying Services)**

1. Establishment of Control and Collection of Data tied to Georgia State Plane Coordinate System
2. Establishment of Properties and Existing Right of Way at intersection
3. Property corners will be recovered and visibly flagged
4. Topographic Survey of approximately 26 Acres prepared in accordance to the Minimum Technical Standards of Georgia Survey Law and the limits as shown in Appendix
5. Utilities and Appurtenances Only (No Underground will be investigated)
  - a. Sanitary sewer including tops, inverts, pipe sizes and materials. For sewer networks extending beyond the survey area, provide location and information for next structure immediately upstream/downstream.
  - b. Water including lines, valves, hydrants, etc.
  - c. Storm drainage including tops, inverts, and pipe sizes and materials. For pipe networks extending beyond the survey boundary, provide location and information for next structure immediately upstream/downstream.
  - d. Power, phone, cable, fiber optic – poles and boxes
  - e. Light poles
  - f. Generators and transformers
6. Driveway aprons, curb and gutter, sidewalks, ramps, intersections, turn lanes
7. Mailboxes, fences, retaining walls, guardrails, handrails
8. Signs
  - a. Monument signs
  - b. Street signs
  - c. Parking Lot Signage
9. Striping
  - a. Lane and directional striping
  - b. Stop bars and crosswalks
  - c. Parking Lot striping and markings
10. Topographic Contours – 1-foot increments
11. Establishment of Two Benchmarks

**SURVEYING SCOPE EXCLUSIONS:**

The following will not be included in the Scope of Services:

Complete Individual Property Surveys; ALTA/NSPS Land Title Surveys; Title research; Tree Survey; Preparation of easement/property exhibits for land acquisition; Staking to support of easement/property acquisition; Combination Plat; Construction surveying services; Recordation of documents; Recording and/or review fees; Preparation of surveys in accordance to HB 76.

**SURVEY DELIVERABLES:**

Unless directed otherwise, TerraMark will provide a CAD File only and support data for final deliverables. If Client needs data provided with TerraMark's company title block and presentation standards for all surveys, fees may need to be re-negotiated. Deliverables shall conform to the following:

1. Data delivery in MicroStation V8i and InRoads per previous DOT Survey Specifications.
2. TerraMark will utilize GDOT's provided file types, layering and CAD standards
3. Unless otherwise directed, survey deliverables shall include the following:
  - a. Digital Design Files
    - i. CAD (.dgn), MicroStation V8i, or newer
    - ii. Text will be established based on a scale of 1"=20'
    - iii. Tops, invert data and sizes of storm and sewer within corridor

**APPENDIX (SEE ATTACHMENTS):**

See attachments for additional information relative to the subject project:

1. Aerial Photo of project areas
2. Spreadsheet Reflecting Staff Hours and Expenses for each project area

If you concur with our scope and fees, please indicate by signing below. Should you have any questions, please call us at your convenience.

Thank you for the opportunity to serve you.

Sincerely,  
**TerraMark Land Surveying, Inc.**  
William C. Wohlford, Jr., RLS  
Principal

\_\_\_\_\_  
Authorized Approval: **Moffatt & Nichol**  
Date:

# APPENDIX





















TerraMark Land Surveying, Inc.  
1396 Bells Ferry Road  
Marietta, Georgia 30066  
(770) 421-1927

Cost Analysis -

Costs For:

5/7/2025

Blue Jay Road Widening Project - Intersection #1, Emerald Crossing  
Rincon, Effingham County, GA Project

Field Run

Tasks	Corridor Width: 110 Feet								33 Properties	
	Principal	RLS Project Manager	(Survey) Specialist	Specialist	Field Survey Crew (2 Person Crew)	Field Survey Crew (3 Person Crew)	Field Survey Crew (Crew Chief)	Total	8.00 Acres	3,000 LF
Database Survey Items	\$ 135.00	\$ 125.00	\$ 110.00	\$ 100.00	\$ 155.00	\$ 165.00	\$ 80.00			
Project Kick-off	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50	\$	67.50
Property Research/Existing Data Search	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	\$	1,350.00
Letters (If Required)	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	\$	405.00
Establish Control	0.00	1.00	0.00	0.00	10.00	0.00	0.00	11.00	\$	1,675.00
Control Report	1.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	\$	355.00
Property Monument Location	0.00	0.00	0.00	0.00	15.00	0.00	0.00	15.00	\$	2,325.00
Property Analysis	15.00	0.00	0.00	0.00	5.00	0.00	0.00	20.00	\$	2,800.00
Aerial LIDAR (Sub-Consultant)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Point Cloud Extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Topographic Data Collection	0.50	2.00	0.00	0.00	60.00	0.00	0.00	62.50	\$	9,617.50
Drainage and Sewer Inverts/Pipe Sizes	0.00	0.00	0.00	0.00	5.00	0.00	4.00	9.00	\$	1,095.00
CAD Time - Processing, Etc.	0.00	20.00	0.00	0.00	0.00	0.00	0.00	20.00	\$	2,500.00
Data Delivery	0.00	10.00	0.00	0.00	0.00	0.00	0.00	10.00	\$	1,250.00
Quality Control/Admin	2.00	2.00	0.00	0.00	0.00	0.00	2.00	6.00	\$	680.00
Additional Data Requested	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Total	\$4,320.0	\$4,375.0	\$220.0	\$0.0	\$14,725.0	\$0.0	\$480.0	\$24,120.0	\$	24,120.00
	32	35	2	0	95	0	6.0	Per Acre 170 Per Ft		\$3,015.00
										\$8.04
Underground Utility Locate - Level B										
Project Kick-off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Coord with Sub-Consultant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Request for Records/Report	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Marking of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Location of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Administration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Total	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$	-
	0	0	0	0	0	0	0.0	Per Acre 0 Per Ft		\$0.00
										\$0.00
Project Expenses	Per Person	Crew Members	Room Rate Est.	Estimated Days	Trips	Hours/Trip	Crew Rate			
Crew Per Diem (2 Persons)	45.00	2.00	0.00	10.00	0.00	0.00	0.00	0.00	\$	900.00
Crew Lodging (2 Rooms)	0.00	2.00	175.00	10.00	0.00	0.00	0.00	0.00	\$	3,500.00
Sub Per Diem (1 Person)	45.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Sub Lodging (1 Room)	0.00	1.00	175.00	0.00	0.00	0.00	0.00	0.00	\$	-
Travel (Trips)	0.00	0.00	0.00	0.00	4.00	5.00	155.00	0.00	\$	3,100.00
Sub - Travel (Trips)	0.00	0.00	0.00	0.00	0.00	5.00	100.00	0.00	\$	130.00
Administration	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$	-
Total	0	0	0	0	0	0	0	0	\$	7,535.00
								Per Acre 0 Per Ft		\$381.75
										\$122.16
Grand Total										\$31,755.00
								Per Acre		\$3,969.38
								Per Ft		\$10.59



TerraMark Land Surveying, Inc.  
1396 Bells Ferry Road  
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Cost Analysis -

Costs For:

5/7/2025

Blue Jay Road Widening Project - Intersection #2, Greystone Drive  
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**Field Run**

Tasks	Corridor Width: 110 Feet							14 Properties	
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<b>Database Survey Items</b>									
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Property Research/Existing Data Search	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	\$ 1,350.00
Letters (If Required)	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	\$ 405.00
Establish Control	0.00	1.00	0.00	0.00	10.00	0.00	0.00	11.00	\$ 1,675.00
Control Report	1.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	\$ 355.00
Property Monument Location	0.00	0.00	0.00	0.00	10.00	0.00	0.00	10.00	\$ 1,550.00
Property Analysis	15.00	0.00	0.00	0.00	5.00	0.00	0.00	20.00	\$ 2,800.00
<b>Aerial LIDAR (Sub-Consultant)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Point Cloud Extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Topographic Data Collection	0.50	2.00	0.00	0.00	60.00	0.00	0.00	62.50	\$ 9,617.50
Drainage and Sewer Inverts/Pipe Sizes	0.00	0.00	0.00	0.00	5.00	0.00	4.00	9.00	\$ 1,095.00
CAD Time - Processing, Etc.	0.00	20.00	0.00	0.00	0.00	0.00	0.00	20.00	\$ 2,500.00
Data Delivery	0.00	10.00	0.00	0.00	0.00	0.00	0.00	10.00	\$ 1,250.00
Quality Control/Admin	2.00	2.00	0.00	0.00	0.00	0.00	2.00	6.00	\$ 680.00
Additional Data Requested	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
<b>Total</b>	<b>\$4,320.0</b>	<b>\$4,375.0</b>	<b>\$220.0</b>	<b>\$0.0</b>	<b>\$13,950.0</b>	<b>\$0.0</b>	<b>\$480.0</b>	<b>\$23,345.0</b>	<b>\$ 23,345.00</b>
	32	35	2	0	90	0	6.0	Per Acre	<b>\$2,918.13</b>
								165 Per Ft	<b>\$7.78</b>
<b>Underground Utility Locate - Level B</b>									
Project Kick-off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Coord with Sub-Consultant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Request for Records/Report	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Marking of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Location of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Administration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
<b>Total</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$ -</b>
	0	0	0	0	0	0	0.0	Per Acre	<b>\$0.00</b>
								0 Per Ft	<b>\$0.00</b>
<b>Project Expenses</b>	Per Person	Crew Members	Room Rate Est.	Estimated Days	Trips	Hours/Trip	Crew Rate		
Crew Per Diem (2 Persons)	45.00	2.00	0.00	10.00	0.00	0.00	0.00	0.00	\$ 900.00
Crew Lodging (2 Rooms)	0.00	2.00	175.00	10.00	0.00	0.00	0.00	0.00	\$ 3,500.00
Sub Per Diem (1 Person)	45.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Sub Lodging (1 Room)	0.00	1.00	175.00	0.00	0.00	0.00	0.00	0.00	\$ -
Travel (Trips)	0.00	0.00	0.00	0.00	4.00	5.00	155.00	0.00	\$ 3,100.00
Sub - Travel (Trips)	0.00	0.00	0.00	0.00	0.00	5.00	100.00	0.00	\$ 130.00
Administration	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$ 130.00
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$ 7,630.00</b>
								Per Acre	<b>\$381.75</b>
								0 Per Ft	<b>\$122.16</b>
<b>Grand Total</b>									<b>\$30,980.00</b>
								Per Acre	<b>\$3,872.50</b>
								Per Ft	<b>\$10.33</b>



TerraMark Land Surveying, Inc.  
1396 Bells Ferry Road  
Marietta, Georgia 30066  
(770) 421-1927

Cost Analysis -

Costs For:

5/7/2025

Blue Jay Road Widening Project - Intersection #3, Horsepen Road  
Rincon, Effingham County, GA Project

**Field Run**

Tasks	Corridor Width: 110 Feet							Total	\$ Properties	
	Principal	RLS Project Manager	(Survey) Specialist	Specialist	Field Survey Crew (2 Person Crew)	Field Survey Crew (3 Person Crew)	Field Survey Crew (Crew Chief)		6.00 Acres	2,350 LF
	\$ 135.00	\$ 125.00	\$ 110.00	\$ 100.00	\$ 155.00	\$ 185.00	\$ 80.00			
<b>Database Survey Items</b>										
Project Kick-off	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50	\$	67.50
Property Research/Existing Data Search	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	\$	1,350.00
Letters (If Required)	3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	\$	405.00
Establish Control	0.00	1.00	0.00	0.00	10.00	0.00	0.00	11.00	\$	1,675.00
Control Report	1.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	\$	355.00
Property Monument Location	0.00	0.00	0.00	0.00	6.00	0.00	0.00	6.00	\$	930.00
Property Analysis	10.00	0.00	0.00	0.00	4.00	0.00	0.00	14.00	\$	1,970.00
<b>Aerial LIDAR (Sub-Consultant)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Point Cloud Extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Topographic Data Collection	0.50	2.00	0.00	0.00	45.00	0.00	0.00	47.50	\$	7,292.50
Drainage and Sewer Inverts/Pipe Sizes	0.00	0.00	0.00	0.00	5.00	0.00	4.00	9.00	\$	1,095.00
CAD Time - Processing, Etc.	0.00	18.00	0.00	0.00	0.00	0.00	0.00	18.00	\$	2,250.00
Data Delivery	0.00	10.00	0.00	0.00	0.00	0.00	0.00	10.00	\$	1,250.00
Quality Control/Admin	2.00	2.00	0.00	0.00	0.00	0.00	2.00	6.00	\$	680.00
Additional Data Requested	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
<b>Total</b>	<b>\$3,645.0</b>	<b>\$4,125.0</b>	<b>\$220.0</b>	<b>\$0.0</b>	<b>\$10,850.0</b>	<b>\$0.0</b>	<b>\$480.0</b>	<b>\$19,320.0</b>	<b>\$</b>	<b>\$19,320.00</b>
	27	33	2	0	70	0	6.0	138	Per Acre	<b>\$3,220.00</b>
									Per Ft	<b>\$8.22</b>
<b>Underground Utility Locate - Level B</b>										
Project Kick-off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Coord with Sub-Consultant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Request for Records/Report	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Marking of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Location of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Administration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
<b>Total</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.0</b>	<b>\$0.00</b>
	0	0	0	0	0	0	0.0	0	Per Acre	<b>\$0.00</b>
									Per Ft	<b>\$0.00</b>
<b>Project Expenses</b>	Per Person	Crew Members	Room Rate Est.	Estimated Days	Trips	Hours/Trip	Crew Rate			
Crew Per Diem (2 Persons)	45.00	2.00	0.00	7.00	0.00	0.00	0.00	0.00	\$	630.00
Crew Lodging (2 Rooms)	0.00	2.00	175.00	7.00	0.00	0.00	0.00	0.00	\$	2,450.00
Sub Per Diem (1 Person)	45.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	\$	-
Sub Lodging (1 Room)	0.00	1.00	175.00	0.00	0.00	0.00	0.00	0.00	\$	-
Travel (Trips)	0.00	0.00	0.00	0.00	4.00	5.00	155.00	0.00	\$	3,100.00
Sub - Travel (Trips)	0.00	0.00	0.00	0.00	0.00	5.00	100.00	0.00	\$	135.00
Administration	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$	-
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>\$</b>	<b>\$4,115.00</b>
									Per Acre	<b>\$451.07</b>
									Per Ft	<b>\$132.95</b>
<b>Grand Total</b>										<b>\$25,635.00</b>
									Per Acre	<b>\$4,272.50</b>
									Per Ft	<b>\$10.91</b>

Corridor Width: 110 Feet										4.00 Acres
Tasks		Principal	RLS Project Manager	(Survey) Specialist	Specialist	Field Survey Crew (2 Person Crew)	Field Survey Crew (3 Person Crew)	Field Survey Crew (Crew Shift)	Total	1,350 LF
Database Survey Items		\$ 135.00	\$ 125.00	\$ 110.00	\$ 100.00	\$ 155.00	\$ 185.00	\$ 0.00	\$ 0.00	
Project Kick-off		0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.50	\$ 67.50
Property Research/Existing Data Search		8.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	\$ 1,080.00
Letters (If Required)		3.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	\$ 405.00
Establish Control		0.00	1.00	0.00	0.00	10.00	0.00	0.00	11.00	\$ 1,675.00
Control Report		1.00	0.00	2.00	0.00	0.00	0.00	0.00	3.00	\$ 395.00
Property Monument Location		0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00	\$ 500.00
Property Analysis		10.00	0.00	0.00	0.00	4.00	0.00	0.00	14.00	\$ 1,970.00
Aerial LIDAR (Sub-Consultant)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Point Cloud Extraction		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Topographic Data Collection		0.50	2.00	0.00	0.00	35.00	0.00	0.00	37.50	\$ 5,742.50
Drainage and Sewer Inverts/Pipe Sizes		0.00	0.00	0.00	0.00	5.00	0.00	4.00	9.00	\$ 1,095.00
Drainage - Processing, Etc.		0.00	15.00	0.00	0.00	0.00	0.00	15.00	15.00	\$ 1,875.00
Data Delivery		0.00	0.00	10.00	0.00	0.00	0.00	0.00	10.00	\$ 1,250.00
Quality Control/Admin		2.00	2.00	0.00	0.00	0.00	0.00	2.00	6.00	\$ 880.00
Additional Data Requested		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Total		\$3,375.0	\$3,750.0	\$220.0	\$0.0	\$9,300.0	\$0.0	\$480.0	\$11,225.0	\$17,125.00
		25	30	2	0	60	0	6.0	Per Acre 123 Per Ft	\$4,281.25 Per Ft \$12.69
Underground Utility Locate - Level B										
Project Kick-off		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Coord with Sub-Consultant		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Request for Records/Report		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Marking of Utilities		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Location of Utilities		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Administration		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Total		\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
		0	0	0	0	0	0	0.0	Per Acre 0 Per Ft	\$0.00 Per Ft \$0.00
Project Expenses										
Crew Per Diem (2 Persons)	Per Person	45.00	2.00	0.00	6.00	0.00	0.00	0.00	0.00	\$ 540.00
Crew Lodging (2 Rooms)		0.00	2.00	0.00	175.00	0.00	0.00	0.00	0.00	\$ 2,100.00
Sub Per Diem (1 Person)	Crew Members	45.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -
Sub Lodging (1 Room)		0.00	1.00	175.00	0.00	0.00	0.00	0.00	0.00	\$ -
Travel (Trips)	Room Rate Est.	0.00	0.00	0.00	2.00	0.00	155.00	0.00	0.00	\$ 1,550.00
Sub - Travel (Trips)	Estimated Days	0.00	0.00	0.00	0.00	0.00	5.00	100.00	0.00	\$ -
Administration		1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$ 135.00
Total		0	0	0	0	0	0	0	0	\$4,225.00
									Per Acre 3708.93 Per Ft	\$308.93
									0 Per Ft	\$115.33
Grand Total										\$21,450.00
									Per Acre 1582.50 Per Ft	\$15.88





May 14, 2025

**Revision No. 1**

Kevin Skinner, PE  
Sr. Transportation Engineer  
**Moffatt & Nichol**  
1201 Peachtree Street, NE; Suite 1106  
Atlanta, Georgia 30361

RE: **Effingham County, Georgia**  
**Blue Jay Road – Multi-Use Trail**

Please find below the specifics to the referenced Task Order above:

**REQUEST FOR PROPOSAL:**

Property & Topographic Survey, dated May 5, 2025

**PURPOSE:**

To support the planning, design and construction of improvements at the intersection.

**CLIENT RESPONSIBILITIES:**

The below shall be reviewed by the County and discussed with TerraMark at the project kick-off and/or prior to beginning field data collection:

1. Provide TerraMark with any information that the County may have knowledge, which could support the survey process.
2. Provide TerraMark with any Record Drawings, DOT Plans/RW Plans, Easements, Property Data, Utility Data or other relevant information that could assist in the preparation and completion of the survey database.

**FEES:**

Task 1. TerraMark Surveying Services (Estimate)	\$84,055.00
Task 2. Travel Expenses (Estimate)	<u>\$26,385.00</u>
<b>Total (Budget Fee)</b>	<b>\$110,440.00</b>

**SCHEDULE:**

TerraMark will endeavor to complete the requested work and provide you with our deliverables for the overall project, within **112 Calendar Days** from Notice-to-Proceed.

**LOCATION/LIMITS OF SURVEY:**

The project encompasses approximately 32,200 linear feet of topography between Sand Hill Road and Effingham Parkway, related to a survey corridor along the north side of Blue Jay Road of 40 feet wide. The survey area lies within Georgia Militia Districts 9, 10 & 1559 of Effingham County, Georgia. The project does not include areas collected as part of the four (4) Intersection Projects along the corridor length and proposed under separate cover. There appear to be up to seventy-three (73) properties to locate and identify within the survey area.

**SCOPE OF SURVEYING SERVICES:**

The survey shall include the following as a minimum:

**Tasks: (Surveying Services)**

1. Establishment of Control and Collection of Data tied to Georgia State Plane Coordinate System
2. Establishment of Properties and Existing Right of Way at intersection
3. Property corners will be recovered and visibly flagged
4. Topographic Survey of approximately 30 Acres prepared in accordance to the Minimum Technical Standards of Georgia Survey Law and the limits as shown in Appendix
5. Utilities and Appurtenances Only (No Underground will be investigated)
  - a. Sanitary sewer including tops, inverts, pipe sizes and materials. For sewer networks extending beyond the survey area, provide location and information for next structure immediately upstream/downstream.
  - b. Water including lines, valves, hydrants, etc.
  - c. Storm drainage including tops, inverts, and pipe sizes and materials. For pipe networks extending beyond the survey boundary, provide location and information for next structure immediately upstream/downstream.
  - d. Power, phone, cable, fiber optic – poles and boxes
  - e. Light poles
  - f. Generators and transformers
6. Driveway aprons, curb and gutter, sidewalks, ramps, intersections, turn lanes
7. Mailboxes, fences, retaining walls, guardrails, handrails
8. Signs
  - a. Monument signs
  - b. Street signs
  - c. Parking Lot Signage
9. Striping
  - a. Lane and directional striping
  - b. Stop bars and crosswalks
  - c. Parking Lot striping and markings
10. TerraMark will locate trees that are 12 inches and larger within the survey corridor
11. Topographic Contours – 1-foot increments
12. Establishment of Benchmarks every 1,000 feet

**SURVEYING SCOPE EXCLUSIONS:**

The following will not be included in the Scope of Services:

Complete Individual Property Surveys; ALTA/NSPS Land Title Surveys; Title research; Tree Survey other than mentioned above; Preparation of easement/property exhibits for land acquisition; Staking to support of easement/property acquisition; Combination Plat; Construction surveying services; Recordation of documents; Recording and/or review fees; Preparation of surveys in accordance to HB 76.

**SURVEY DELIVERABLES:**

Unless directed otherwise, TerraMark will provide a CAD File only and support data for final deliverables. If Client needs data provided with TerraMark's company title block and presentation standards for all surveys, fees may need to be re-negotiated. Deliverables shall conform to the following:

1. Data delivery in MicroStation V8i and InRoads per previous DOT Survey Specifications.
2. TerraMark will utilize GDOT's provided file types, layering and CAD standards
3. Unless otherwise directed, survey deliverables shall include the following:
  - a. Digital Design Files
    - i. CAD (.dgn), MicroStation V8i, or newer
    - ii. Text will be established based on a scale of 1"=20'
    - iii. Tops, invert data and sizes of storm and sewer within corridor



**APPENDIX (SEE ATTACHMENTS):**

See attachments for additional information relative to the subject project:

1. Spreadsheet Reflecting Staff Hours and Expenses for each project area

If you concur with our scope and fees, please indicate by signing below. Should you have any questions, please call us at your convenience.

Thank you for the opportunity to serve you.

Sincerely,  
**TerraMark Land Surveying, Inc.**  
William C. Wohlford, Jr., RLS  
Principal

\_\_\_\_\_  
Authorized Approval: **Moffatt & Nichol**

Date:

# APPENDIX

Corridor Width: 40 Feet										30.00 Acres
Tasks	Principal	Project Manager	(Survey) Specialist	Specialist	Field Survey Crew (2 Person Crew)	Field Survey Crew (3 Person Crew)	Field Survey Crew (Crew Chief)	Total	32.200 LF	
	\$ 135.00	\$ 125.00	\$ 110.00	\$ 100.00	\$ 155.00	\$ 185.00	\$ 0.00			
Database Survey Items										
Project Kick-off	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$ 135.00	
Property Research/Existing Data Search Letters (If Required)	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	\$ 3,375.00	
Establish Control	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	\$ 675.00	
Control Report	2.00	5.00	0.00	0.00	100.00	0.00	0.00	105.00	\$ 16,125.00	
Property Monument Location	0.00	0.00	20.00	0.00	0.00	0.00	0.00	22.00	\$ 2,470.00	
Property Analysis	0.00	0.00	0.00	0.00	40.00	0.00	0.00	40.00	\$ 6,200.00	
Aerial LIDAR (Sub-Consultant)	40.00	0.00	0.00	0.00	20.00	0.00	0.00	60.00	\$ 8,500.00	
Pave Cloud Extraction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	\$ -	
Topographic Data Collection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Drainage and Sewer Inverts/Pipe Sizes	1.00	6.00	0.00	0.00	170.00	0.00	0.00	177.00	\$ 27,335.00	
CAD Draw - Processing, Etc.	0.00	0.00	0.00	0.00	20.00	0.00	15.00	35.00	\$ 4,300.00	
Data Delivery	0.00	1.00	60.00	0.00	0.00	0.00	0.00	61.00	\$ 7,500.00	
Quality Control/Admin	0.00	20.00	0.00	0.00	0.00	0.00	0.00	2.500	\$ 250.00	
Additional Data Requested	4.00	4.00	0.00	0.00	0.00	0.00	50.00	58.00	\$ 5,040.00	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Total	\$10,530.00	\$11,875.00	\$2,200.00	\$0.00	\$54,250.00	\$0.00	\$5,200.00	\$84,055.00	\$ 84,055.00	
	78	95	20	0	350	0	65.0	Per Acre 608 Per Ft	\$2,611	
Underground Utility Locate - Level B										
Project Kick-off	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Coord with Sub-Consultant	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Request for Records/Report	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Marking of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Location of Utilities	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Administration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$ -	
	0	0	0	0	0	0	0.0	Per Acre 0 Per Ft	\$0.00	
Project Expenses										
Crew Per Diem (2 Persons)	Per Person	45.00	2.00	0.00	35.00	0.00	0.00	0.00	\$ 3,150.00	
Crew Lodging (2 Rooms)		0.00	2.00	175.00	0.00	0.00	0.00	0.00	\$ 12,250.00	
Sub Per Diem (1 Person)	Crew Members	45.00	1.00	0.00	0.00	0.00	0.00	0.00	\$ -	
Sub Lodging (1 Room)	Room Rate Est.	0.00	1.00	175.00	0.00	0.00	0.00	0.00	\$ -	
Travel (Trips)	Estimated Days	0.00	0.00	0.00	14.00	5.00	155.00	0.00	\$ 10,850.00	
Sub - Travel (Trips)	Trips	0.00	0.00	0.00	0.00	0.00	5.00	100.00	\$ 135.00	
Administration		1.00	0.00	0.00	0.00	0.00	0.00	1.00	\$ 135.00	
Total	0	0	0	0	0	0	0	Per Acre 0 Per Ft	\$439.75	
								\$149.07	\$110,440.00	
Grand Total									\$110,440.00	
Per Acre									\$3,681.33	
Per Ft									\$3.43	



## **Appendix D**

May 15, 2025

Mr. Kevin Skinner  
Moffatt & Nichol  
1201 Peachtree Street Northeast, Suite 1106  
Atlanta, Georgia 30361

**Subject: Proposal to Conduct Environmental Services  
Blue Jay Road Improvements  
Effingham County, Georgia**

Dear Mr. Skinner:

As per your request, Sligh Environmental Consultants, Inc. (SECI) respectfully submits the following proposal for improvements to Blue Jay Road in Effingham County, Georgia. It is our understanding the project consists of two potential phases as outlined below:

**Phase I: Emerald Crossing, Oaklawn Drive, Graystone Drive, and Horsepen Road Intersection Improvements**

**Task 1. Wetland Delineation:** SECI will visit the four intersections and delineate all wetlands and other waters of the U.S. on both sides of Blue Jay Road to a minimum distance of 40 feet from edge of pavement. The delineation task involves placing colored flagging along the upland/wetland interface. The delineation of wetland/aquatic areas will be performed in general accordance with the *Corps of Engineers Wetlands Delineation Manual* (USACE 1987) and the November 2010 Atlantic and Gulf Coastal Plain Regional Supplement. Jurisdictional ditches, canals, streams, and ponds will also be marked or represented on the site drawings. Upon completion of the field work, SECI will provide you with an approximate flagging sketch and coordinate with the surveyor of your choice for location of the wetland flagging.

SECI will complete Task 1 for a cost of Two thousand (\$2,000.00) dollars.

**Task 2. Jurisdictional Determination & Permitting:** SECI will prepare a detailed jurisdictional determination (JD) request and submit to the US Army Corps of Engineers (USACE). The request will include all necessary forms, GIS maps, and field data taken during the wetland delineation. Once the request has been processed by the USACE, they may require a site visit to verify the accuracy of the delineation. We will attend the site visit with the USACE and provide justification of the delineated wetland boundaries. We will also provide any follow-up coordination necessary to obtain the jurisdictional determination letter including justification of non-jurisdictional wetlands.

If jurisdictional wetlands are identified and impacts are required, it is assumed the proposed project will qualify for either a Nationwide Permit (< ½ acre per wetland crossing) or Regional Permit (<3 acres per wetland crossing). If Individual Permit authorization is required, SECI will coordinate with you on additional costs. The permit application will contain the appropriate pre-construction notification form along with all supporting documentation needed to obtain the permit including a discussion on threatened and endangered species, essential fish habitat (EFH), and avoidance and minimization measures. We will also attend meetings/site visits with the appropriate regulatory personnel as needed to discuss matters relating to the permit application.

SECI proposes to complete the JD and permitting task for a cost of Five thousand (\$5,000.00) dollars.

## **Phase II: Shared Use Path from Sand Hill Road to Effingham Parkway**

**Task 1. Wetland Delineation:** It is our understanding the shared-use path will be constructed on the north side of Blue Jay Road from Sand Hill Road to Effingham Parkway; a distance of approximately eight miles. SECI will delineate all wetlands and other waters of the U.S. on the north side of Blue Jay Road in accordance with current federal regulations. Jurisdictional ditches, canals, streams, and ponds will also be marked or represented on the site drawings. Upon completion of the field work, SECI will provide you with an approximate flagging sketch and coordinate with the surveyor of your choice for location of the wetland flagging.

SECI will complete Task 1 for a cost of Five thousand five hundred (\$5,500.00) dollars.

**Task 2. Jurisdictional Determination & Permitting:** SECI will prepare a detailed jurisdictional determination (JD) request and submit to the US Army Corps of Engineers (USACE). The request will include all necessary forms, GIS maps, and field data taken during the wetland delineation. Once the request has been processed by the USACE, they may require a site visit to verify the accuracy of the delineation. We will attend the site visit with the USACE and provide justification of the delineated wetland boundaries. We will also provide any follow-up coordination necessary to obtain the jurisdictional determination letter including justification of non-jurisdictional wetlands.

If jurisdictional wetlands are identified and impacts are required, it is assumed the proposed project will qualify for either a Nationwide Permit (< ½ acre per wetland crossing) or Regional Permit (<3 acres per wetland crossing). If Individual Permit authorization is required, SECI will coordinate with you on additional costs. The permit application will contain the appropriate pre-construction notification form along with all supporting documentation needed to obtain the permit including a discussion on threatened and endangered species, essential fish habitat (EFH), and avoidance and minimization measures. We will also attend meetings/site visits with the appropriate regulatory personnel as needed to discuss matters relating to the permit application.

SECI proposes to complete the JD and permitting task for a cost of Five thousand (\$5,000.00) dollars.

If it appears that additional effort may be required due to unanticipated regulatory concerns or for services above and beyond those outlined above, SECI will coordinate with you on any additional costs that may be incurred. SECI does not guarantee the issuance of any permit of approval. Any work performed by SECI in representing you in any appeal process concerning the above-mentioned approval, whether administrative or judicial, shall be billed at double SECI's standard rates which are:

President	- \$250.00 per hour
Senior Project Manager	- \$150.00 per hour
Project Biologist	- \$115.00 per hour
Field Biologist	- \$90.00 per hour
Administrative Assistant	- \$50.00 per hour

Please note that SECI will execute work for this project in a professional and timely manner, and SECI expects payment to be made as follows:

Services will be billed on a percent-complete basis by task. Invoices will be considered due upon receipt. Payment will be considered overdue after thirty days from the date of the invoice and 1.5% interest per month will automatically be added. If this payment agreement is not adhered to, all work will cease until payment is received. Either Mr. Kevin Skinner of Moffatt & Nichol (CLIENT) or SECI may terminate this agreement at any time with or without cause upon giving the other party three (3) calendar days prior written notice. CLIENT shall within ten (10) calendar days of termination pay SECI for all services rendered and all costs incurred up to the date of termination, in accordance with the compensation provisions of this contract