

August 7<sup>th</sup>, 2024

Ms. June Hamal  
Associate Director Construction & Program Delivery  
Augusta Engineering Department  
452 Walker Street, Suite 110  
Augusta, Georgia, 30901



**Re: Proposal for Construction Materials Testing & Engineering Services  
James Brown Blvd (Twiggs Street to Laney Walker Blvd) – Phase III Project**

Dear Ms. Hamal:

Pursuant to your email request on August 7<sup>th</sup>, Matrix Engineering Group, Inc. {MATRIX} is pleased to submit our proposal for the provisions of Construction Materials Testing Services for the James Brown Blvd (Twiggs Street to Laney Waker-Blvd) Phase III project. Based on the total schedule of 180 calendar days (estimate 130 works days), and the construction drawings that were provided, Matrix will perform the materials testing services for a total estimated fee of **Sixty-One Thousand, Five Hundred and Eighty Dollars (\$61,580)**, as shown in Table 1.

Matrix inspectors utilize a proprietary, cloud-based reporting, scheduling, and document management system {*Matrix | Sequence*}, that connects the construction team to the project's Schedule of Special Inspections (SSI). This robust tool uniquely synchronizes the entire construction team on our findings including a dynamic open item record that gives a barometer of the status of the various inspections. Our staff also leverages *Filio*, a cutting edge, geospatial photo management software that captures and geo-tags photographs which document the inspected activities. Through machine learning and artificial intelligence, the photographs are searchable by date and type of activity or observation.

We appreciate the opportunity to submit this proposal and look forward to providing the testing services on these important and exciting projects.

Sincerely,

**MATRIX ENGINEERING GROUP, INC.**

A handwritten signature in black ink, appearing to read 'Naser Ackall'.

Naser Ackall, ICC  
Field Services Coordinator  
[naser@matrixengineeringgroup.com](mailto:naser@matrixengineeringgroup.com)

A handwritten signature in black ink, appearing to read 'Sam Alyateem'.

Sam Alyateem, PE  
Principal  
[samp@matrixengineeringgroup.com](mailto:samp@matrixengineeringgroup.com)

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## ***INTRODUCTION***

This proposal is presented for the provisions of Construction Materials Testing Services for the James Brown Blvd (Twiggs Street to Laney Waker-Blvd) Phase III project. Our scope includes soils testing, reinforcing steel inspections, bearing capacity determination, GAB testing, asphalt documentation, subgrade evaluations, related laboratory testing and Professional Engineer consulting and recommendations.

## ***SCOPE OF SERVICES***

Our scope of services was developed to meet the testing requirements, as defined by the project specifications and GDOT specs and guidelines. The following sections detail our scope of services. The most cost-effective services will be achieved through our strategic allocation of experienced manpower, our quality approach to providing the required services, and our competitive rates.

## ***CONSTRUCTION MATERIALS TESTING SERVICES***

- Monitor and document progress of work on daily basis and schedule construction inspections as required by the project specifications
- Subgrade evaluation of existing materials: Proof-roll and/ bearing capacity evaluation
- Geotechnical Engineer to provide evaluation & recommendations for Stabilization, as needed
- Monitoring of over excavation and quantification
- Backfill monitoring and testing of structural fill
- Backfill monitoring and testing of pipe backfill on storm drain lines, water lines and site walls
- Subgrade inspections of finished grades for pavements and sidewalks on both sides of the roadway
- Concrete testing on sidewalks on both sides of the roadway (8' wide and 6' wide), and Curbs/Gutters, and structures.
- GAB Compaction testing and Proof-roll testing
- Laboratory testing
  - Soil Proctors tests
  - GAB Proctors
  - Asphalt testing
  - Concrete Testing
  - Gradations
- Professional Engineer for report review, consultation, site visits and recommendations

**COMPENSATION**

The following table provides a breakdown of the costs associated with the requested inspection and testing services. It is anticipated that inspections will be required on a daily basis. In developing the following budget, we have taken into consideration the overlapping nature of the construction activities. Therefore, it is impractical to separate the costs of testing services for each individual task. We have estimated the testing budget based on the estimated construction schedule and the required inspection services. Any additional services that may be required will be based on the unit fees provided in the Schedule of Fees and upon your prior authorization. Matrix will perform the materials testing services for a total estimated fee of **Sixty-One Thousand, Five Hundred and Eighty Dollars (\$61,580)**. The work will be billed on a monthly basis in accordance with our annual contract with the City of Augusta.

**TABLE 1:**  
**SCHEDULE OF FEES – CONSTRUCTION MATERIALS TESTING**

DESCRIPTION OF SERVICES	QUANTITY X UNIT PRICE	COST (\$)
<u>ITEM 1 – Senior Tech for Construction Materials Testing:</u> <ul style="list-style-type: none"> <li>• Attendance of weekly site meetings</li> <li>• Subgrade evaluations</li> <li>• Soil Backfill monitoring</li> <li>• Soil Backfill Compaction Testing</li> <li>• Bearing Capacity Evaluations</li> <li>• GAB Testing</li> <li>• Nuclear Gauge Density testing</li> <li>• Asphalt Temperature Determination</li> </ul>	4 hrs/day x 130 days x <b>\$62*/hr</b>	\$32,240.00
<u>ITEM 2 – Staff Engineer &amp; Professional Engineer:</u> <ul style="list-style-type: none"> <li>• Staff Engineer for documentation of construction activities</li> <li>• Geotechnical Engineer to provide evaluations and recommendations for stabilization</li> <li>• Geotechnical Engineering Consultation &amp; Recommendations</li> <li>• PE for Report Review and Certification of Reports</li> </ul>	2 hrs/day x 130 days x <b>\$85/hr</b> 1 hr/wk x 26 weeks x <b>\$115/hr</b>	\$22,100.00 \$2,990.00
<u>ITEM 3 – Laboratory Testing for Soils / Asphalt</u> <ul style="list-style-type: none"> <li>• Soil Standard Proctors</li> <li>• Gradations</li> <li>• Atterberg Limits</li> <li>• Asphalt Specific Gravity Testing</li> </ul>	LUMP SUM	\$1,250.00
<u>ITEM 4 –Laboratory Testing for Concrete Cylinders</u> <ul style="list-style-type: none"> <li>• Concrete Cylinder Pick-Ups &amp; transportation to lab</li> <li>• Compressive Strength Testing</li> </ul>	LUMP SUM	\$3,000.00
<b>Estimated Maximum Fee:</b> .....		<b>\$61,580.00</b>

*\*The total does not include costs associated with re-testing of areas that fail to meet the project specifications upon initial inspection, nor any additional assignments that are requested by the owner that are beyond the scope of work provided herein. All testing services are assumed to occur during regular work hours. Services exceeding 40 hours per week and work on weekends will be billed at 1.5 times the hourly rates listed above. Shop Visits are not included in this estimate.*

*\*\*Senior Technician rate is based on daily rate of \$496 divided by 8 hours*