

# CITY COUNCIL AGENDA ITEM COVER MEMO

Agenda Item Number \_\_\_\_\_

Meeting Type: Regular

Meeting Date: 6/13/2013

Action Requested By:  
Engineering

Agenda Item Type  
Resolution

Subject Matter:

Agreement with Geo Solutions, L.L.C.

Exact Wording for the Agenda:

Resolution authorizing the Mayor to enter into an agreement with Geo Solutions, L.L.C. for Construction Materials Testing Services for Martin Road on Redstone Arsenal, Project No. 65-10-RD09

**Note: If amendment, please state title and number of the original**

Item to be considered for: Action

Unanimous Consent Required: No

Briefly state why the action is required; why it is recommended; what Council action will provide, allow and accomplish and; any other information that might be helpful.

This agreement is to provide testing services on concrete and soils during the construction of 2.5 miles of two (2) additional lanes of Martin Road on Redstone Arsenal. Contract Amount in a Not to Exceed (NTE) Ceiling Price of \$120,000.00. Account No. 23-6500-0813-8512

Associated Cost: \$120,000.00

Budgeted Item: Select...

MAYOR RECOMMENDS OR CONCURS: Select...

Department Head: *Sabry Mante*

Date: 5/31/13

revised 3/12/2012

# ROUTING SLIP CONTRACTS AND AGREEMENTS

Originating Department: **Engineering**

Council Meeting Date: **6/13/2013**

Department Contact: **Lynn Majors**

Phone # **256-427-5201**

Contract or Agreement: **Construction Materials Testing Services**

Document Name: **Martin Road on Redstone Arsenal Project No. 65-10-RD09**

City Obligation Amount: **\$120,000.00**

Total Project Budget: **\$120,000.00**

Uncommitted Account Balance: **0**

Account Number: **23-6500-0813-8512**

## Procurement Agreements

<b>Not Applicable</b>	<b>Not Applicable</b>
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## Grant-Funded Agreements

<b>Not Applicable</b>	<b>Grant Name:</b>
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Department	Signature	Date
1) Originating	<i>Kathryn Marki</i>	5/31/13
2) Legal	<i>Mary Cates</i>	6/3/13
3) Finance	<i>[Signature]</i>	6/5/13
4) Originating		
5) Copy Distribution		
a. Mayor's office (1 copies)		
b. Clerk-Treasurer (Original & 2 copies)		

**RESOLUTION NO. 13-**

**BE IT RESOLVED** by the City Council of the City of Huntsville, Alabama, that the Mayor be, and is hereby authorized, to enter into an agreement with Geo Solutions, L.L.C. in a Not to Exceed (NTE) Ceiling Price of ONE HUNDRED TWENTY THOUSAND AND NO/100 DOLLARS (\$120,000.00) for Construction Materials Testing Services for Martin Road on Redstone Arsenal, Project No. 65-10-RD09, in Huntsville, Alabama, on behalf of the City of Huntsville, a municipal corporation in the State of Alabama, which said agreement is substantially in words and figures similar to that document attached hereto and identified as "Agreement between City of Huntsville and Geo Solutions, L.L.C. for Construction Materials Testing Services for Martin Road on Redstone Arsenal, Project No. 65-10-RD09" consisting of a total of seventeen (17) pages plus twenty-two (22) additional pages consisting of Attachments 1-15, and the date of June 13, 2013, appearing on the margin of the first page, together with the signature of the President or President Pro Tem of the City Council, and an executed copy of said document being permanently kept on file in the Office of the City Clerk of the City of Huntsville, Alabama.

**ADOPTED** this the 13th day of June, 2013.

\_\_\_\_\_  
President of the City Council of  
the City of Huntsville, Alabama

**APPROVED** this the 13th day of June, 2013.

\_\_\_\_\_  
Mayor of the City of Huntsville,  
Alabama

**AGREEMENT BETWEEN**  
**CITY OF HUNTSVILLE, ALABAMA**  
**AND**  
**GEO SOLUTIONS, L.L.C.**  
**FOR**  
**CONSTRUCTION MATERIALS TESTING SERVICES**  
**FOR**  
**MARTIN ROAD ON REDSTONE ARSENAL**

**Project No. 65-10-RD09**  
**June 13, 2013**

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**President of the City Council of the City of  
Huntsville, AL**  
**Date: June 13, 2013**

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**AGREEMENT BETWEEN  
CITY OF HUNTSVILLE, ALABAMA  
AND  
GEO SOLUTIONS, L.L.C.  
FOR  
CONSTRUCTION MATERIALS TESTING SERVICES  
FOR  
MARTIN ROAD ON REDSTONE ARSENAL**

**Project No. 65-10-RD09**

THIS AGREEMENT made as of the 13th day of June in the year 2013, by and between the CITY OF HUNTSVILLE, ALABAMA (hereinafter called OWNER), and GEO SOLUTIONS, L.L.C., (hereinafter called ENGINEER).

WITNESSETH, for the considerations hereinafter set forth, the parties hereto agree as follows:

**ARTICLE 1 - ENGAGEMENT OF THE ENGINEER**

The OWNER hereby engages the ENGINEER, and the ENGINEER hereby accepts the engagement to provide general engineering and consultation as a representative of the OWNER to include the following:

- 1.1 Professional construction materials testing services for Martin Road on Redstone Arsenal, as further described in ARTICLE 2, and hereinafter called PROJECT.
- 1.2 By executing this Agreement, the ENGINEER represents to the OWNER that the ENGINEER is a professional qualified to act as the ENGINEER for the PROJECT and is licensed and certified to practice engineering by all public entities having jurisdiction over the ENGINEER and the PROJECT. The ENGINEER further represents to the OWNER that the ENGINEER will maintain all necessary licenses, certifications, permits or other authorizations necessary to act as ENGINEER for the PROJECT until the ENGINEER's remaining duties hereunder have been satisfied. The ENGINEER shall assign only qualified personnel to perform any service concerning the PROJECT. All services rendered by the ENGINEER for the PROJECT shall be performed by or under the immediate supervision of experienced and qualified professionals licensed, certified, and registered as appropriate in the State of Alabama possessing the expertise in the discipline of the service being rendered. The ENGINEER assumes full responsibility to the OWNER for the negligent acts, errors and omissions of its consultants or others employed or retained by the ENGINEER in connection with the PROJECT.
- 1.3 Execution of this Agreement by the ENGINEER constitutes a representation that the ENGINEER has become familiar with the PROJECT site and the local conditions under which the PROJECT is to be implemented. The ENGINEER agrees to provide all necessary construction materials testing services required to professionally accomplish the ENGINEER's defined scope of services.

**ARTICLE 2 – DESIGN SERVICES OF THE ENGINEER**

**ARTICLE OMITTED**

**ARTICLE 3 – CONSTRUCTION ADMINISTRATION SERVICES**

- 3.1 The ENGINEER shall provide to OWNER, professional services for activities that occur after the 100% submittal has been made. These services shall include, but not be limited to, consultation and advise, engineering support, testing services, report & documentation as needed.

- 3.2** The ENGINEER shall provide Construction Administration as described below and shall perform those duties and discharge those responsibilities set forth herein.
- 3.3** The ENGINEER shall represent the OWNER during construction testing. The ENGINEER shall act on behalf of the OWNER only to the extent provided herein. The ENGINEER shall be the OWNER'S design representative during performance of the PROJECT, shall consult with and advise the OWNER on all design and technical matters, and shall be the OWNERS representative in dealing with the construction contractor.
- 3.4** The ENGINEER shall attend pre-construction meetings, attend monthly progress meetings, provide site inspection with the OWNER's approval to the extent necessary to ensure construction is in conformance with the design, resolve the contractor's questions concerning interpretation of the construction documents, act as OWNERS representative in disputes and on claims, and attend public meetings arising out of the construction process.
- 3.5** The ENGINEER shall provide the same technician throughout the project, unless otherwise approved in writing by the OWNER, that is proven to be qualified/certified for the duties as assigned.
- 3.6** The ENGINEER shall be the initial interpreter of the requirements of the construction documents and the judge of the performance there under by the contractor. The ENGINEER shall act as the OWNER's advisor on claims. The ENGINEER shall render written or graphic interpretations and decisions necessary for the proper execution or progress of the Work with reasonable promptness on request of the contractor.
- 3.7** The ENGINEER shall reject work that does not conform to the contract documents unless directed by the OWNER, in writing, not to do so. Whenever, in the ENGINEER's opinion, it is necessary or advisable, the ENGINEER shall require special examination or testing of the work in accordance with the provisions of the construction contract whether or not such work is fabricated, installed or completed.
- 3.8** The ENGINEER shall promptly review and approve, or take other appropriate action on proposed "equal materials or equipment." The ENGINEER shall not approve any such proposed equal materials or equipment unless such equals conform to the PROJECT design concept, the construction documents, the contract for construction, and the estimated life cycle PROJECT projections.
- 3.9** The ENGINEER shall promptly review and evaluate the results of all inspections, tests and written reports required by the contract for construction, which were required by any governmental entity, or which were necessary or advisable. The ENGINEER shall take appropriate action on test results and shall promptly reject any work that does not conform to and comply with the requirements.
- 3.10** The ENGINEER shall promptly review, administer, manage, and advise the OWNER concerning test reports and recommendations on the project. The ENGINEER shall prepare change orders for the OWNER's approval and execution in accordance with the construction contract. The ENGINEER shall not be authorized to "swap out" required changes with reduced construction requirements without the written consent of the OWNER. The ENGINEER shall promptly prepare required drawings, specifications and other supporting data as necessary in connection with minor changes, change order requests, and change orders.
- 3.11** The ENGINEER shall promptly notify the OWNER in writing of any information it obtains pertaining to any claim; alleged claim, including but not limited to mechanics' liens, construction liens, and builder's trust fund claims; or similar claims, involving any PROJECT contractor, supplier, subcontractor, or consultant, whether or not such claims or alleged claims arise from or relate to the PROJECT.
- 3.12** The ENGINEER shall at all times have access to the work wherever it is located. The ENGINEER shall not have control or charge of construction means, methods, techniques, sequences or procedures, or safety precautions or programs in connection with the work.

- 3.13** The ENGINEER shall be required to provide qualified technicians on site in a timely fashion, as requested by the OWNER. The ENGINEER shall promptly notify OWNER's representative upon arriving on site, and notify OWNERS representative upon testing results prior to leaving site. A final report/recommendation shall be sent to the OWNER's office and to the job site within (1) one week of a site visit.
- 3.14** A valid City of Huntsville license shall be maintained throughout the term of this contract. Additionally, the engineering firm shall be required to obtain and pay for all other federal, state or local permits, licenses, and fees which may be necessary or required in order to perform the work detailed herein.

#### **ARTICLE 4 - ADDITIONAL SERVICES**

The following services of the ENGINEER are not included in Article 2. Nevertheless, the ENGINEER shall provide such services if authorized in writing by the OWNER, and they shall be paid for by the OWNER as provided in Article 7, unless otherwise noted.

- 4.1** Making revision in drawings, specifications or other documents when such revisions are inconsistent with written direction by the OWNER previously given, are required by the enactment of revision of codes, laws or regulations subsequent to the preparation of such documents and not reasonably anticipated, or are due to other causes not within the control or responsibility of the ENGINEER, either in whole or in part.
- 4.2** Preparing drawings, specifications and supporting data in connection with change orders, provided that such change orders are issued by the OWNER due to causes not within the control or responsibility of the ENGINEER, either in whole or in part.
- 4.3** Providing additional services for repair or replacement of work damaged by acts of God or other cause during construction provided that such services are required by causes not the responsibility of the ENGINEER, either in whole or in part.
- 4.4** Providing services not otherwise required herein which are made necessary solely by the default of the Contractor or major defects or deficiencies in the work of the contractor. These services shall be provided with no increase in the contract amount and will not be compensable on an hourly basis.
- 4.5** Providing expert witness services and other services arising out of claims.

#### **ARTICLE 5 - RESPONSIBILITIES OF OWNER**

The OWNER, without cost to the ENGINEER, will perform the following in a timely manner so as not to delay the services of the ENGINEER:

- 5.1** Assist ENGINEER by placing at ENGINEER's disposal all available information pertinent to the PROJECT including previous reports and any other data relative to design or construction of the PROJECT.
- 5.2** Provide all criteria and full information as to OWNER's requirements for the PROJECT, including design objectives and constraints, space, capacity and performance requirements, flexibility and expendability, and any budgetary limitations. The OWNER shall also furnish copies of all design and construction standards, which OWNER will require to be included in the drawings and specifications.
- 5.3** Assist the ENGINEER as necessary in acquiring access to and making all provisions for the ENGINEER to enter upon public and private lands as required for the ENGINEER to perform the work under this agreement.
- 5.4** Designate in writing a person to act as the OWNER's representative with respect to the work to be performed under this Agreement, such person to have complete authority to transmit instructions,

receive information, interpret and define the OWNER's policies and decision with respect to materials, equipment elements and systems pertinent to the work covered by this Agreement. Examine all studies, reports, sketches, drawings, specifications, proposals and other documents presented by ENGINEER, obtain advice of an attorney, insurance counselor and other consultants as OWNER determines appropriate for such examination and render in writing decisions pertaining thereto within a reasonable time so as not to delay the services of ENGINEER.

- 5.5 When requested by the ENGINEER, the OWNER will intercede on the ENGINEER's behalf when data from, or review by, third parties is not on schedule through no fault of the ENGINEER.
- 5.6 The OWNER's review of any documents prepared by the ENGINEER or its consultants shall be solely for the purpose of determining whether such documents are generally consistent with the OWNER's intent. No review of such documents shall relieve the ENGINEER of its responsibility for the accuracy, adequacy, fitness, suitability and coordination of its work product.

## **ARTICLE 6 - PERIOD OF SERVICES**

- 6.1 The ENGINEER shall commence services pursuant to this agreement as of June 14, 2013. The final completion date for the completion of construction materials testing services, as outlined in Article 3, shall coincide with the duration of the construction contract for the PROJECT.

The ENGINEER shall perform these services with reasonable diligence and expediency consistent with sound professional practices. The ENGINEER shall include in his schedule an allowance for time required for OWNER's review of submissions and for approvals of authorities having jurisdiction over the PROJECT. When approved by the OWNER, the schedule shall not be exceeded by the ENGINEER, except for cause.

If the ENGINEER becomes aware of delays due to time allowances for review and approval being exceeded, delay by the OWNER, the OWNER's consultants, or any other reason beyond the ENGINEER's control, which may result in the schedule of performance of the ENGINEER's services not being met, the ENGINEER shall promptly notify the OWNER. If the OWNER becomes aware of any delays or other causes that will affect the ENGINEER's schedule, the OWNER shall promptly notify the ENGINEER. In either event, the ENGINEER's schedule for performance of its services shall be equitably adjusted.

## **ARTICLE 7 - PAYMENT TO THE ENGINEER**

### **7.1 BASIC SERVICES**

The OWNER shall compensate the ENGINEER for services rendered pursuant to this Agreement, excepting those services described as Additional Services in Article 4 of this Agreement, on a Not to Exceed (NTE) Ceiling Price of ONE HUNDRED TWENTY THOUSAND AND NO/100 DOLLARS (\$120,000.00), for construction materials testing services described in Article 3. Additional services of the ENGINEER as described in Article 4, if any, shall be compensated on an hourly basis in accordance with Attachment 5.

### **7.2 NOT TO EXCEED (NTE) CEILING PRICE**

*NTE Ceiling price.* The City of Huntsville (COH) will not be obligated to pay the ENGINEER any amount in excess of the NTE ceiling price as per Attachment "1" and the ENGINEER shall not be obligated to continue performance if to do so would exceed the NTE ceiling price set forth in the referenced attachment, unless and until the COH notifies the ENGINEER in writing that the NTE ceiling price has been increased and specifies in the notice a revised NTE ceiling that shall constitute the NTE ceiling price for performance under this contract. NTE ceiling price increase will be done by a written change order to the contract issued by the OWNER that will not require the ENGINEER's approval. When and to the extent that the NTE ceiling price set forth in the referenced attachment has been increased, any hours expended and material costs incurred by the ENGINEER in excess of the NTE ceiling price before the increase shall be allowable to the same extent as if the hours expended and material costs had been incurred after the increase in the NTE ceiling price.

#### **7.4 EFFECTIVE DATE**

This contract shall have no force or effect unless and until it is executed by the OWNER and the ENGINEER and a properly executed copy is mailed to the ENGINEER with a notice to proceed (NTP). If a NTP is not issued within sixty (60) days commencing from the last date of execution of this CONTRACT by the OWNER and the ENGINEER, then this CONTRACT shall be NULL AND VOID, the OWNER will not be obligated to any payment to the ENGINEER and the ENGINEER will not be obligated to perform any work under said CONTRACT.

#### **PAYMENT SUMMARY**

<b>Construction Materials Testing Services - Not to Exceed (NTE) Ceiling Price of</b>	<b>\$120,000.00</b>
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#### **ARTICLE 8 - GENERAL PAYMENT PROCEDURE**

##### **8.1 INVOICES**

**8.1.1** The ENGINEER shall submit monthly invoices to the Administrative Officer, Engineering Division, for the basic services described under Articles 2 and 4 for the design of the PROJECT. Invoices must include the City of Huntsville project name and number, dates of services, contract amount, previous billings and current billing. Along with each invoice, the ENGINEER must submit a consultant progress report in the format shown in Attachment 6 hereto. No payment will be made without the consultant progress report completed and attached. Monthly progress reports shall be submitted monthly even if no request for payment is made. If services under Article 4 are included in the invoice for additional services not included under the lump sum provisions, or services billed as time and material, the classification and hours of such persons rendering the services shall be attached to the invoice.

**8.1.2** The signature of the ENGINEER on the invoice shall constitute the ENGINEER's representation to the OWNER that the services indicated in the invoice have progressed to the level indicated, have been properly and timely performed as required herein, that the reimbursable expenses included in the invoice have been reasonably incurred, that all obligations of the ENGINEER covered by prior invoices have been paid in full, and that, to the best of the ENGINEER's knowledge, information and informed belief, the amount requested is currently due and owing, there being no reason known to the ENGINEER the payment of any portion thereof should be withheld. Submission of the ENGINEER's invoice for final payment and reimbursement shall further constitute the ENGINEER's representation to the OWNER that, upon receipt from the OWNER of the amount invoiced, all obligations of the ENGINEER to others, including its consultants, incurred in connection with the PROJECT, have been paid in full. ENGINEER must designate on Attachment 6 – Progress Report in the appropriate space provided that such action has been completed.

##### **8.2 TIME FOR PAYMENT**

The OWNER shall make payment for services in Articles 3 and 4 within 60 days of receipt of valid invoice.

##### **8.3 OWNER'S RIGHT TO WITHHOLD PAYMENT**

In the event the OWNER becomes credibly informed that any representations of the ENGINEER, provided pursuant to Article 8.1.2, are wholly or partially inaccurate, the OWNER may withhold payment of sums then or in the future otherwise due to the ENGINEER until the inaccuracy, and the cause thereof, is corrected to the OWNER's reasonable satisfaction. Additionally, failure by the

ENGINEER to supply substantiating records shall be reason to exclude related costs from the amounts which might otherwise be payable by the OWNER to the ENGINEER.

#### **8.4 REIMBURSABLE EXPENSES**

**8.4.1** In addition to the requirements set forth in 8.1 above, invoices for reimbursable expenses shall include such documentation as the OWNER may require. Reasonable expenses are limited to the following expenses:

- (a) Transportation outside the immediate Huntsville area (50 mile radius) approved in advance by the OWNER in writing and incurred in connection with the PROJECT. (Per Department of Treasury, Internal Revenue Service Publication 1542, Per Diem Rates, for travel within the continental United States). Refer to website: [www.irs.gov/pub/irs-pdf/p1542.pdf](http://www.irs.gov/pub/irs-pdf/p1542.pdf) for more information;
- (b) Charges for long-distance communications;
- (c) Fees paid for securing approval of authorities having jurisdiction over the PROJECT,
- (d) Actual costs of reproduction for items in excess of those included in the required services;
- (e) Postage and handling charges incurred for drawings, specifications and other documents.

**8.4.2** The ENGINEER shall set forth with particularity on its invoice the nature and cost of the expense item being billed, and attach to its invoice the written authorization, if any, required for such item; and shall bill expenses at actual cost or prevailing rate and without the addition of administrative charge, any multiple or surcharge.

#### **8.5 W-9 TAXPAYER FORM**

All ENGINEERING FIRMS are required to submit a Federal Tax Form W-9 to City of Huntsville at the time a contract is awarded. No payment of invoices can be made until this W-9 Tax Form has been properly submitted. A copy of the W-9 Tax Form can be requested from the OWNER or at the following website: [www.irs.ustreas.gov/pub/irs-pdf/fw9.pdf](http://www.irs.ustreas.gov/pub/irs-pdf/fw9.pdf)

### **ARTICLE 9 - GENERAL CONSIDERATIONS**

#### **9.1 GENERAL**

OWNER and ENGINEER agree that the following sections and provisions shall apply to the work to be performed under this Agreement and that such provisions shall supersede any conflicting provisions of this Agreement.

#### **9.2 SUB-CONTRACTED SPECIALIZED SERVICES**

The ENGINEER may sub-contract specialized services required of the PROJECT to competent and experienced sub-consultants approved by the OWNER in writing. As a prime professional, the ENGINEER shall act as OWNER's representative for contracting, directing, and managing the services of sub-consultants. The OWNER shall have the right to reject any consultant provided that the OWNER raises a timely objection. At the time of the execution of this Agreement, the parties anticipate that the consultants listed in Attachment "7" hereto will be retained by the ENGINEER to provide services with respect to the PROJECT. Expenses payable to the ENGINEER for administration of subcontracted services are limited to no more than 5% of the cost of the subcontracted services.

#### **9.3 PEER REVIEW**

The OWNER reserves the right to conduct, at the OWNER's expense, peer review of designs and drawings prepared by the ENGINEER and/or sub-consultant(s) for the PROJECT. The ENGINEER and sub-consultant(s) agree that knowledge and consent to review of their work by other engineers of the OWNER's choosing is hereby given in accordance with the ADMINISTRATIVE CODE (RULES AND REGULATIONS) of the Alabama State Board of Licensure for Professional Engineers and Land Surveyors, Chapter 330-X-14-.06(a) (13) effective January 2008 and as may be amended now or in the future pertaining to the Code of Ethics for review of the work of another engineer.

#### **9.4 CLARIFICATION OF WORK**

If reviewing agencies raise questions regarding the work of ENGINEER, OWNER will participate in such meetings as deemed necessary to explain and clarify this work.

#### **9.5 CANCELLATION OF WORK**

This Agreement may be canceled by either party in the event of default or violation of any of the provisions of this Agreement by the other party, by written notice delivered to the address of record by registered mail giving ten (10) days advance notice of the intention to cancel. In the event of cancellation of this Agreement, ENGINEER shall be paid for all work performed to date of cancellation, less any loss, damage, or liability incurred by reason of default of ENGINEER and all records, data, parameters, design calculations and other information collected or obtained in the performance of this Agreement shall be delivered to OWNER.

#### **9.6 CHANGES**

**9.6.1** The OWNER may, at any time by written order, make changes within the general scope of the Agreement in the services to be provided. If such changes cause an increase or decrease in ENGINEER's cost of, or time required for performance of any services, whether or not changed by any order, an equitable adjustment shall be made and the Agreement shall be modified in writing accordingly. Upon notification of change, ENGINEER must assert any claim of ENGINEER for adjustment in writing within 30 days from the date of receipt unless OWNER grants a further period of time.

**9.6.2** If findings in any phase of this PROJECT significantly alter the scope of work for subsequent phases, or if regulations are changed resulting in a scope of work change for any phase, engineering fees set forth in Article 7 may be renegotiated by the OWNER and ENGINEER.

#### **9.7 ENGINEER'S RECORDS**

Documentation accurately reflecting services performed and the time expended by the ENGINEER and his personnel and records of reimbursable expenses shall be prepared concurrently with the performance of the services and shall be maintained by the ENGINEER. The ENGINEER shall maintain record copies of all written communications, and any memoranda of verbal communications related to the PROJECT. All such records and documentation shall be maintained for a minimum of five (5) years after the PROJECT date of final completion or for any longer period of time as may be required by law or good practice. If the ENGINEER receives notification of a dispute or of pending or commencement of litigation during this five-year period, the ENGINEER shall continue to maintain all PROJECT records until final resolution of the dispute or litigation. The ENGINEER shall make such records and documentation available to the OWNER upon notice and shall allow the authorized representative(s) of the OWNER to inspect, examine, review and copy the ENGINEER's records at the OWNER's reasonable expense.

#### **9.8 SEAL ON DOCUMENTS**

**9.8.1** Final plans and drawings shall be marked "ISSUED FOR CONSTRUCTION". When a firm, partnership, or corporation performs the work, each drawing shall be sealed and signed by the licensed engineer or engineers who were in responsible charge of the work.

**9.8.2** When plans and drawings issued for construction were not performed by a firm, partnership, or corporation, the first sheet or title page shall be sealed, dated, and signed by the engineer who was in responsible charge. Two or more licensed professional engineers may affix their signatures and seals provided it is designated by a note under the seal the specific subject matter for which each is responsible. In addition, each drawing shall be sealed and signed by the licensee or licensees responsible for each sheet.

**9.8.3** When plans or drawings are a site adaptation of a standard design or plan or make use of a standard drawing of others, the ENGINEER shall take measures to assure that the site adaptation, standard drawing, or plan is appropriate and suitable for the use proposed by the ENGINEER including meeting the specific site conditions, functionality, design criteria, safety considerations, etc. After taking such measures, the ENGINEER shall seal the standard drawing or plan as shown above in sections 9.8.1 and 9.8.2. The ENGINEER shall not utilize standards of others without their written consent where written consent is required or implied.

**9.8.4** Each sheet of documents, specifications, and reports for engineering practice and of maps, plats, charts, and reports for land surveying practice, shall be signed, sealed, and dated by the licensed engineer or land surveyor who prepared the documents or under whose responsible charge the documents were prepared. Where more than one sheet is bound together in one volume, including but not limited to reports and specifications, the licensee who prepared the volume, or under whose responsible charge the volume was prepared, may sign, seal, and date only the title or index sheet, provided that this sheet clearly identifies all of the other sheets comprising the bound volume, and provided that any of the other sheets which were prepared by, or under the responsible charge of, another licensee, be signed, sealed, and dated by the other licensee.

## **9.9 USE AND OWNERSHIP OF DOCUMENTS**

All rights of ownership, copyrights, construction documents, including all drawings, specifications and other documents, electronic media, computer source code, or things prepared by or on behalf of the ENGINEER for the PROJECT are hereby transferred to the OWNER and shall be the sole property of the OWNER and are free of any retention rights of the ENGINEER. The ENGINEER hereby grants to the OWNER an unconditional right to use or to refer to, for any purpose whatsoever, the construction documents and any other documents or electronic media, computer source code prepared by or on behalf of the ENGINEER for the PROJECT, free of any copyright claims, trade secrets or other proprietary rights with respect to such documents. The ENGINEER shall be permitted to retain copies thereof for its records. The ENGINEER's documents and other work products are not intended or represented to be suitable for re-use by OWNER or others on extensions of the PROJECT or on any other PROJECT. Any re-use without specific written verification or adaptation by ENGINEER will be at OWNER's sole risk and without liability or legal exposure to ENGINEER, and OWNER shall indemnify and hold harmless ENGINEER from all claims, damages, losses and expenses including attorneys' fees arising out of, or resulting from, such reuse by the OWNER; provided however, that this agreement to indemnify and save harmless shall not apply to any reuse of documents retained by, or through, the ENGINEER.

## **9.10 ESTIMATE OF CONSTRUCTION COST**

Since ENGINEER has no control over the construction cost of labor, materials, or equipment, or over the construction contractor(s) methods of determining prices, or over competitive bidding or market conditions, his opinion of probable PROJECT cost or construction cost provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry; but, ENGINEER cannot and does not guarantee that proposals, bids or construction costs will not vary from opinions of probable cost prepared by him. If OWNER wishes greater assurance as to the construction cost, he will employ an independent cost estimator.

## **9.11 TERMINATION FOR CAUSE**

This Agreement may be terminated by either party upon seven (7) days written notice to the other should such other party fail substantially to perform in accordance with its material terms through no fault of the party initiating the termination.

## **9.12 TERMINATION BY THE OWNER WITHOUT CAUSE**

The OWNER may terminate this Agreement without cause upon seven (7) days' written notice to the ENGINEER. In the event of such a termination without cause, the ENGINEER shall be compensated for all services performed prior to termination, together with Reimbursable Expenses incurred. In such event, the ENGINEER shall promptly submit to the OWNER its invoice for final payment and reimbursement which invoice shall comply with the provisions of Paragraph 8.1.

## **ARTICLE 10 - INDEMNITY AND INSURANCE**

### **10.1 INSURANCE**

The ENGINEER shall carry insurance of the following kinds and amounts in addition to any other forms of insurance or bonds required under the terms of the contract specifications. The ENGINEER shall procure and maintain for the duration of the job until final acceptance by the OWNER, or as later indicated, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the ENGINEER, his agents, representatives, employees or subcontractor.

### **10.2 MINIMUM SCOPE OF INSURANCE:**

#### **A. General Liability:**

Insurance shall be written on an occurrence basis. Claims-made coverage will be accepted only on an exception basis after the OWNER's approval. The same insurance company should write General Liability Coverage and OWNERs ENGINEERs Protective Insurance.

#### **B. Commercial General Liability**

Products and Completed Operations  
Contractual  
Personal Injury  
Explosion, Collapse and Underground  
Broad Form Property Damage

#### **C. Professional Liability:**

Insurance may be written on a "claims-made" basis, providing coverage for negligent acts, errors or omissions in the performance of professional services. Coverage shall be maintained for a discovery and reporting period of no less than five (5) years after completion of the professional services and Certificates of Insurance shall be submitted to the OWNER on a yearly basis during this time frame. Coverage shall be no less comprehensive than that which is carried by at least 25% of the registered engineers or engineering firms contracting in the State of Alabama. Such coverage shall be carried on a continuous basis including prior acts coverage to cover the subject PROJECT. The professional liability insurance shall contain contractual liability coverage.

#### **D. Automobile Liability:**

Business Automobile Liability providing coverage for all owned, hired and non-owned autos. Coverage for loading and unloading shall be provided under either automobile liability or general liability policy forms.

#### **E. Workers' Compensation Insurance:**

Statutory protection against bodily injury, sickness or disease or death sustained by employee in the scope of employment. Protection shall be provided by a commercial insurance company or a recognized self-insurance fund authorized before the State of Alabama Industrial Board of Relations. "Waivers of Subrogation" in favor of the OWNER shall be endorsed to Workers' Compensation Insurance.

**F. Employers Liability Insurance:**

Covering common law claims of injured employees made in lieu of or in addition to a worker's compensation claim.

**10.3 MINIMUM LIMITS OF INSURANCE:**

**A. General Liability:**

Commercial General Liability on an "occurrence form" for bodily injury and property damage:

\$ 2,000,000 General Aggregate Limit  
\$ 2,000,000 Products - Completed Operations Aggregate  
\$ 1,000,000 Personal & Advertising Injury  
\$ 1,000,000 Each Occurrence

**B. Professional Liability:**

Insurance may be made on a "claims-made" basis:

\$ 500,000 Per Claim - Land Surveyors  
\$ 1,000,000 Per Claim - Other Professionals

**C. Automobile Liability:**

\$ 1,000,000 Combined Single Limit per accident for bodily injury and property damage.

**D. Workers' Compensation:**

As required by the State of Alabama Statute

**E. Employers Liability:**

\$ 1,000,000 Bodily Injury by Accident or Disease  
\$ 1,000,000 Policy Limit by Disease

**10.4 OTHER INSURANCE PROVISIONS:**

The OWNER is hereby authorized to adjust the requirements set forth in this document in the event it is determined that such adjustment is in the OWNER's best interest. If the insurance requirements are not adjusted by the OWNER prior to the OWNER's release of specifications with regard to the PROJECT in question, then the minimum limits shall apply. The City of Huntsville/OWNER shall be named on the policies of general liability and automobile insurance and on the certificate of insurance as an Additional Insured. Additional Insured status on the Commercial General Liability policy shall be through ISO Additional Endorsement CG 20 10 11 85 or equivalent and coverage shall be afforded on a primary basis.

The policies are to contain, or be endorsed to contain, the following provisions:

**A. All Coverage:**

The ENGINEER is responsible to pay all deductibles. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled, non-renewal or materially changed by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the OWNER. Cancellation of coverage for non-payment of premium will require ten (10) days written notice to the OWNER.

**10.5 ACCEPTABILITY OF INSURERS:**

Insurance is to be placed with insurers authorized by the State of Alabama with an A. M. Best rating of A-V or better.

**10.6 VERIFICATION OF COVERAGE:**

The OWNER shall be indicated as a Certificate Holder and the ENGINEER shall furnish the OWNER with Certificates of Insurance reflecting the coverage required by this document. The A. M. Best rating and deductibles, if applicable, shall be indicated on the Certificate of Insurance for each insurance policy. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf and must be an original signature. Certificates signed using digital signatures will not be accepted unless accompanied by a written statement from the insurance/surety company indicating that their electronic signature is intended as their signature. All certificates are to be received and approved by the OWNER before work commences. The OWNER reserves the right to require complete, certified copies of all required insurance policies at any time.

**10.7 CONSULTANTS AND/OR SUBCONTRACTORS WORKING FOR THE ENGINEER:**

The ENGINEER shall furnish separate certificates and/or endorsements for each subcontractor and/or consultant showing insurance of the same type or types and to the extent of the coverage set forth in this Article 10.

**10.8 HOLD HARMLESS AGREEMENT:**

**A. Other Than Professional Liability Exposures:**

The ENGINEER, to the fullest extent permitted by law, shall indemnify and hold harmless the OWNER, its elected and appointed officials, employees, agents, and representatives against all claims, damages, losses and expenses, including, but not limited to, attorney's fees, arising out of or resulting from the performance of the work, provided that any such claim, damage, loss or expense (1) is attributable to personal injury, including bodily injury sickness, disease or death, or to injury to or destruction of tangible property, including loss of use resulting there from, and (2) is caused by any negligent act or omission of the ENGINEER or any of their consultants, or anyone directly or indirectly employed by them or anyone for whose acts they are legally liable. Such obligation should not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity, which would otherwise exist as to any party or person, described in this paragraph.

**B. Professional Liability:**

The ENGINEER agrees, to the fullest extent permitted by law, to defend, protect, indemnify and hold harmless the OWNER, its elected and appointed officials, officers, directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, costs, fees, and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) actually or allegedly arising out of, or resulting from, the professional services of the ENGINEER or the ENGINEER's consultants, subcontractors, or suppliers, including, without limitation, any breach of contract or any negligent acts, errors, or omissions in the performance of the professional services provided pursuant to or as a result of this Agreement. Neither, the OWNER nor the ENGINEER shall be obligated to indemnify the other party in any manner whatsoever for the other parties own negligence.

To the fullest extent permitted by law, the ENGINEER shall defend, protect, indemnify, and hold harmless the OWNER, its elected and appointed officials, officers, directors, employees, agents, and representatives from and against any and all liability, claims, demands, damages, loss, costs, fees and expenses (including actual fees and expenses of attorneys, expert witnesses, and other consultants) for infringement of patent rights, copyrights, or other intellectual property rights, except with respect to designs, processes or products of a particular manufacturer expressly required by the OWNER in writing. If the ENGINEER has reason to believe the use of a required design, process or product is an

infringement of a patent, the ENGINEER shall be responsible for such loss unless such information is promptly given to the OWNER.

## **ARTICLE 11- MISCELLANEOUS PROVISIONS**

### **11.1 GOVERNING LAW**

This Agreement shall be governed by the law of the State of Alabama.

### **11.2 INTENT AND INTERPRETATION**

**11.2.1** The intent of this contract is to require complete, correct and timely execution of the work. Any work that may be required, implied or inferred by the contract documents, or any one or more of them, as necessary to produce the intended result shall be provided by the ENGINEER.

**11.2.2** This contract is intended to be an integral whole and shall be interpreted as internally consistent. What is required by any one contract document shall be considered as required by the contract.

**11.2.3** When a word, term or phrase is used in this contract, it shall be interpreted or construed, first, as defined herein; second, if not defined, according to its generally accepted meaning in the engineering industry; and third, if there is no generally accepted meaning in the engineering industry, according to its common and customary usage.

**11.2.4** The words "include", "includes", or "including", as used in this contract, shall be deemed to be followed by the phrase, "without limitation".

**11.2.5** The specification herein of any act, failure, refusal, omission, event, occurrence or condition as constituting a material breach of this contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence or condition shall be deemed not to constitute a material breach of this contract.

**11.2.6** Words or terms used as nouns in this contract shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.

### **11.3 TIME IS OF THE ESSENCE**

Time limitations contained herein, or provided for hereby, are of the essence of this Agreement. The ENGINEER understands and acknowledges that time is of the essence in completion of the PROJECT and that the OWNER will incur damages if the PROJECT is not completed on time.

### **11.4 SUCCESSORS AND ASSIGNS**

The ENGINEER shall not assign its rights hereunder, excepting its right to payment, nor shall it delegate any of its duties hereunder without the written consent of the OWNER. Subject to the provisions of the immediately preceding sentence, the OWNER and the ENGINEER, respectively, bind themselves, their successors, assigns and legal representatives to the other party to this Agreement and to the successors, assigns and legal representatives of such other party with respect to all covenants of this Agreement.

### **11.5 NO THIRD-PARTY BENEFICIARIES**

This Agreement shall inure solely to the benefit of the parties hereto and their successors and assigns. Nothing contained herein is intended to or shall create a contractual relationship with, or any rights in favor of, or any cause of action in favor of, any third party, against the OWNER or the ENGINEER.

## **11.6 INTELLECTUAL PROPERTY/ CONFIDENTIALITY**

All information, documents, and electronic media, computer source code furnished by the OWNER to the ENGINEER belong to the OWNER, are considered proprietary and confidential, unless otherwise indicated by the OWNER, and are furnished solely for use on the OWNER's PROJECT. Such information, documents, and electronic media, computer source code shall be kept confidential by the ENGINEER, shall only be released as necessary to meet official regulatory requirements in connection with the PROJECT, and shall not be used by the ENGINEER on any other PROJECT or in connection with any other person or entity, unless disclosure or use thereof in connection with any matter other than services rendered to the OWNER hereunder is specifically authorized in writing by the OWNER in advance. This Section 11.6 shall survive the expiration of this Agreement.

## **11.7 SUBCONTRACT REQUIREMENTS**

The ENGINEER shall include the terms and conditions of Articles 10 and 11 of this Agreement in every subcontract or agreement with a consultant for this PROJECT so that these terms and conditions shall be binding upon each subcontractor or consultant. The subcontractor(s)/consultant(s) will maintain all licenses and certifications to practice its profession or trade by all public entities having jurisdiction over the PROJECT. The subcontractor(s)/consultant(s) further represent to the OWNER that the subcontractor(s)/consultant(s) will maintain all necessary licenses, certifications, permits or other authorizations necessary for the PROJECT until the remaining duties hereunder have been satisfied.

## **11.8 NOTICES**

Unless otherwise provided, all notices shall be in writing and considered duly given if the original is hand delivered; if delivered by facsimile to 256-427-5325, or is sent by U.S. Mail, postage prepaid to City of Huntsville Engineering, P. O. Box 308 (35804), 320 Fountain Circle (35801), Huntsville, AL. All notices shall be given to the addresses set forth above. Notices, hand delivered or delivered by facsimile, shall be deemed given the next business day following the date of delivery. Notices given by U.S. Mail shall be deemed given as of the second business day following the date of posting.

## **11.9 STRICT COMPLIANCE**

No failure of the OWNER to insist upon strict compliance by the ENGINEER with any provision of this Contract for Professional Services shall operate to release, waive, discharge, modify, change or affect any of the ENGINEER's obligations.

## **11.10 WAIVER**

No provision of this Agreement may be waived except by written agreement of the parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.

## **11.11 SEVERABILITY**

If any provision of this Agreement, or the application thereof, is determined to be invalid or unenforceable, the remainder of that provision and all other provisions of this Agreement shall remain valid and enforceable.

## **11.12 ETHICS**

The ENGINEER shall not offer or accept any bribes or kickbacks from or to any manufacturer, consultant, trade contractor, subcontractor, supplier or any other individual or entity in connection with the PROJECT. The ENGINEER shall not confer on any governmental, public or quasi-public official having any authority or influence over the PROJECT any payment, loan, subscription, advance, deposit of money, services or anything of more than nominal value, present or promised. The ENGINEER shall not, without the express written permission of the OWNER, engage or

recommend to the OWNER engagement of any consultant, trade contractor, subcontractor, or supplier to provide services on behalf of the ENGINEER, OWNER or PROJECT in which the ENGINEER has a direct or indirect proprietary or other pecuniary interest; or call for the use of or by exclusion require or recommend the use of products, materials, equipment, systems, processes or procedures in which the ENGINEER or in which any consultant, trade contractor, subcontractor, or supplier of the ENGINEER has a direct or indirect proprietary or other pecuniary interest. Without prior notification and written approval of the OWNER, the ENGINEER and the ENGINEER'S subconsultants shall not offer services to the OWNER'S contractor.

**11.13 E-VERIFY – NOTICE**

The ENGINEER shall enroll, and shall remain enrolled for the duration of this contract, in a designated employment eligibility verification system (E-Verify) in accordance with the City of Huntsville Ordinance 09-735. If the ENGINEER uses subcontractors in connection with the performance of work herein and the value of the subcontract exceeds \$3,000, the subcontractor shall also comply with this ordinance. The ENGINEER shall include specific written notice in all requests for bids or proposals prepared by the ENGINEER that contractors and any subcontractors are required to enroll in the E-verify program as required by the ordinance. Failure to comply with the requirements of the ordinance shall be a material breach of the contract.

As a condition of this agreement, pursuant to 8 U.S.C. §1324a, Geo Solutions, L.L.C. hereby certifies that it has not knowingly employed, recruited, referred for a fee, or contracted with an unauthorized alien, with respect to employment in the United States. Further, Geo Solutions, L.L.C. hereby certifies that it has enrolled in the City of Huntsville designated employment eligibility verification system in accordance with Ordinance 09-735 and will maintain enrollment throughout the term of this contract.

Geo Solutions, L.L.C.  
(Company)

BY:   
(Authorized Representative)

**11.14 ENTIRE AGREEMENT**

This Agreement represents the entire agreement between the OWNER and the ENGINEER and supersedes all prior communications, negotiations, representations or agreements, either written or oral. This agreement may be amended only by written instrument signed by both OWNER and ENGINEER.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

**OWNER:  
CITY OF HUNTSVILLE**

BY: \_\_\_\_\_  
Tommy Battle

TITLE: \_\_\_\_\_  
Mayor

ATTEST: \_\_\_\_\_

Given under my hand this \_\_\_\_\_ day  
Of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

**ENGINEER:  
GEO SOLUTIONS, L.L.C.**

BY: \_\_\_\_\_  
Brian Cook

TITLE: \_\_\_\_\_  
Owner

ATTEST: \_\_\_\_\_  
Doreen Mills

Given under my hand this 3rd day  
Of June, 2013.

\_\_\_\_\_  
Notary Public  
Mary A Hollingsworth

My commission expires 3/28/15

**ATTACHMENT 1**  
**SCOPE OF SERVICES**

**(Refer to letter dated May 30, 2013, from Brian Cook to Robbie Stewart and attachments).**

# ***GEO SOLUTIONS, L.L.C.***

*Geotechnical Engineering and Materials Testing Services*

May 30, 2013

City of Huntsville Engineering Department  
320 Fountain Circle  
Huntsville, Alabama 35801

Attention: Mr. Robbie Stewart

Subject: Proposal for Construction Materials Testing Services  
Martin Road, Gate 7 to Rideout Road  
Redstone Arsenal, Alabama  
Proposal No.: G-12-120-B

Dear Mr. Stewart:

Pursuant to your request, we have prepared the following proposal for construction materials testing services for the referenced project. This proposal contains information regarding the scope of services to be provided and pricing information for these services. We have reviewed the project plans to assist in preparing this proposal. A contractor has not been selected for this project at this time and we have made some assumptions regarding the anticipated project schedule. GEO Solutions appreciates the opportunity to provide this proposal and looks forward to working with you.

## **SCOPE OF SERVICES**

Based on our review of the project plans and estimate of project schedule, we have developed the following scope of services for materials testing during the planned construction of the improvements to Martin Road between Gate 7 and Rideout Road. The scope of services provided is based on satisfying the City of Huntsville roadway project requirements. A construction schedule or work sequence plan was not available for review at the time this proposal was prepared. This project is planned to begin in the summer of 2013 and is expected to have an 18 month duration period. We are committed to providing professional services in a timely manner. In addition, we will endeavor to provide options and cost efficient recommendations during the course of this project. Services we anticipate will be required for this project include:

### **Subgrade Evaluations**

Upon request, a field engineer will review subgrade areas prior to soil fill/basestone/asphalt placement and at final grade elevation in cut areas. This will be accomplished through data research, visual observation, penetrometer testing, observing proofrolls and shallow exploratory pits when needed. Reports documenting findings and recommendations will be submitted upon completion.

### **Field Density Testing**

A qualified field technician will perform field density testing at the required locations and testing intervals to observe the in-place density of soil/stone structural fill placed. Test methods will be either by drive tube, nuclear gauge or sand cone method. Results of tests will be reported in the field upon completion. Formal reports will be prepared and submitted after completion of each event. Our technicians are trained to quickly interpret test results and the observed site conditions to help the site grading contractor maximize productivity.

### **Concrete Testing**

A certified concrete field technician will be present as requested on an on-call basis to perform the required concrete testing for this project. Services will include representative testing of all structural concrete placements in accordance with the American Concrete Institute (ACI Section 318). Field Testing will include slump (ASTM C134), air (ASTM C231) and temperature (ASTM C1064). Representative samples will be made and transported to a controlled laboratory environment for storage, curing and compressive strength testing in accordance with ASTM C31 and ASTM C39. Relevant data will be recorded for each testing/sampling event. Compressive strength results will be reported within 24 hours of testing the specified testing intervals. We have made some assumptions for concrete placement frequencies and sizes of pours based on our review of the project plans.

### **Laboratory Testing**

An experienced laboratory technician will perform all required testing for this project. These services will include the following:

- Maximum density by Standard Proctor method
- Maximum density by Modified Proctor method
- Atterberg limits determination (liquid and plastic limits)
- Mechanical sieve analysis (material gradation)
- Moisture content determination

### **Pavement Section - Basestone**

Compaction testing will be performed on the dense-graded limestone base by an engineering technician. Base testing will be performed in general accordance with City of Huntsville specifications. The stone thickness will be reviewed at selected intervals upon request. Bulk samples will be obtained for gradation analysis. A proofroll of the basestone will be observed prior to placement of the asphalt paving to observe that a stable sub-base is present to support the planned pavement section.

## **Asphalt Testing**

An engineering technician will perform the necessary compliance testing of asphaltic concrete (binder layer and bearing surface). Asphalt cores will be obtained for the purpose of documenting the in-place thickness and density of each layer of asphalt as requested. Required laboratory testing will be performed at the asphalt plant upon request. The base stone thickness and density will also be reviewed prior to asphalt placement. A formal report will be prepared and submitted after the completion of each testing event.

## **Drilled Piers / Caissons**

Based on the information provided we understand the planned Indian Creek Bridge will be supported by a system of drilled piers (caissons) extending to limestone bedrock. Down hole inspections will be required to review the rock surface and to inspect a probe hole predrilled by the contractor. This review will help to determine the soundness and continuity of the limestone bedrock. Recommendations to address conditions such as joints, slots, seams, weathering and partial rock surface will be provided at the time of completing each review. GEO Solutions proposes to utilize one drilled pier inspector to monitor the drilled pier operations on a full time basis. A senior staff member will oversee the operations on a periodic basis and review the findings of each down hole inspection to help minimize unnecessary rock excavations. The drilling contractor will be responsible for dewatering, cleaning, probe holes, shaft access, air monitoring and required safety equipment.

## **Pricing Structure**

Based on our review of the project plans, we anticipate services will be provided on both a full-time and an on-call basis. Site visits to perform the required services will be coordinated by the Huntsville City Inspector. We have reviewed the limited information available and amended our cost estimate for the scope of services outlined to include an 18 month work schedule with added overtime hours and night time work. Given the information presently available and the anticipated work hours, we estimate the cost of services for the roadway testing to be **\$120,000.00**. We request the opportunity to review the contractors work schedule, when available, in order to modify the work scope if needed. Prior to the start of construction, a preconstruction meeting would be beneficial to all parties to discuss the requirements and scheduling of the scope of services required to satisfy the City of Huntsville requirements. All services requested will be invoiced in accordance with the unit rate fee schedule on a time and materials basis. Any additional work requested due to changes in the work scope, work schedule or projected work hours will also be provided in accordance with the attached unit rate fee schedule. The fee schedule provided will remain effective for the duration of this project.

**Cost Breakdown for Anticipated Staffing**

The cost breakdown is based on an assumed work schedule. We recommend the work schedule be reviewed and revised as needed once a contractor's work schedule is available.

**Materials Testing Services****Roadway**

Senior Engineer	45 hrs x \$110.00/hr	=	\$4,950.00
Project Manager	525 hrs x \$80.00/hr	=	\$42,000.00
Engineering Technician	1250 hrs x \$40.00/hr	=	\$50,000.00
Maximum Density Standard Method	6 test x \$100.00/ea.	=	\$600.00
Maximum Density Modified Method	6 test x \$120.00/ea.	=	\$720.00
Atterberg Limits Determination	6 test x \$75.00/ea.	=	\$450.00
Particle Size Analysis (Gradation)	10 test x \$75.00/ea.	=	\$750.00
Equipped Vehicle Charges	430 uses x \$30.00/ea.	=	\$12,900.00
Nuclear Gauge Rental	226 days x \$25.00/day	=	\$5,650.00
Concrete Cylinders	132 cyl x \$15.00/cyl	=	\$1,980.00
			<b>\$120,000.00</b>

**Notice of Acceptance**

To accept this proposal and the performance of services listed, please complete and return the attached proposal acceptance sheet. We also request a copy of the applicable portions of the plans and specifications.

We appreciate your confidence in us and look forward to working with you on this project. If you need additional information or have any questions please call. We would be happy to meet and discuss this proposal in order to provide a complete understanding of the project requirements and modify the scope if needed.

Respectfully submitted,  
**GEO Solutions, L.L.C.**



Brian K. Cook  
Partner



Jason M. Phillips, P.E.  
Project Engineer

Attachments: Proposal Authorization Sheet  
Unit Rate Fee Schedule

**ATTACHMENT 2 - ALABAMA IMMIGRATION ACT - REPORT OF OWNERSHIP FORM**

**CITY OF HUNTSVILLE, ALABAMA REPORT OF OWNERSHIP FORM**

**A. General Information. Please provide the following information:**

- Legal name(s) (include "doing business as", if applicable): Geo Solutions, LLC
- City of Huntsville current taxpayer identification number (if available): 16061  
(Please note that if this number has been assigned by the City and if you are renewing your business license, the number should be listed on the renewal form.)

**B. Type of Ownership. Please complete the un-shaded portions of the following chart by checking the appropriate box below and entering the appropriate Entity I.D. Number, if applicable (for an explanation of what an entity number is, please see paragraph C below):**

<input type="checkbox"/> Individual or Sole Proprietorship	
<input type="checkbox"/> General Partnership	
<input type="checkbox"/> Limited Partnership (LP)	Number & State:
<input type="checkbox"/> Limited Liability Partnership (LLP)	Number & State:
<input type="checkbox"/> Limited Liability Company (LLC) (Single Member)	Number & State:
<input checked="" type="checkbox"/> LLC (Multi-Member)	Number & State: <u>Alabama 693-328</u>
<input type="checkbox"/> Corporation	Number & State: <u>Alabama</u>
<input type="checkbox"/> Other, please explain:	Number & State (if a filing entity under state law):

**C. Entity I.D. Numbers.** If an Entity I.D. Number is required and if the business entity is registered in this state, the number is available through the website of Alabama's Secretary of State at [www.sos.state.al.us](http://www.sos.state.al.us), under "Government Records". If a foreign entity is not registered in this state please provide the Entity I.D. number (or other similar number by whatever named called) assigned by the state of formation along with the name of the state.

**D. Formation Documents.** Please note that, with regard to entities, the entity's formation documents, including articles or certificates of incorporation, organization, or other applicable formation documents, as recorded in the probate records of the applicable county and state of formation, are not required unless: (1) specifically requested by the City, or (2) an Entity I.D. Number is required and one has not been assigned or provided.

Please date and sign this form in the space provided below and either write legibly or type your name under your signature. If you are signing on behalf of an entity please insert your title as well.

Signature: [Handwritten Signature] Title (if applicable): Managing Partner

Type or legibly write name: William T. Kenna Date: 1-16-12

### **ATTACHMENT 3 - CITY OF HUNTSVILLE STANDARDS AND DESIGN GUIDES**

1. City of Huntsville Standard Specifications for Construction of Public Improvements, Contract Projects, 1991.
2. City of Huntsville Engineering Standards, 1991.
3. City of Huntsville Design and Acceptance Manual for Force Mains and Pump Stations, 2011.
4. City of Huntsville Design and Acceptance Manual for Sanitary Sewers, 2011.
5. Alabama Department of Transportation Standard Specifications for Highway Construction, Current Edition.
6. City of Huntsville Subdivision Regulations, 1991.

**ATTACHMENT 4**  
**DESIGN REVIEWS**

**N/A TO THIS AGREEMENT**

**60% COMPLETE – PRELIMINARY DESIGN CRITERIA**

The review of the PROJECT at this point is primarily to insure that funding limitations are not being exceeded and to insure that the contract documents, design analysis and cost estimates are proceeding in a timely manner, and that the design criteria and previous review comments are being correctly interpreted. An additional review may be required by the OWNER to review changes proposed from previous submittals.

**CONFERENCE FORMAT**

**ATTENDEES: (Required)**

- Real Estate
- Landscape Management
- Utilities
- Traffic Engineering
- Planning
- City of Huntsville Construction Project Manager
- City of Huntsville Inspector
- City of Huntsville Environmental Representative

**DISCUSSION TOPICS:**

- Additional land acquisition needs, as required.
- Technical specifications for special construction items not covered under standard specifications or deviations from standard specifications.
- Update on progress of permitting requirements.
- Erosion control plan requirements, if required by the OWNER.
- Budget constraints.
- Progress on coordination with other project participants such as the State of Alabama, sub consultants, etc.

**REQUIRED SUBMITTALS TO THE PROJECT ENGINEER**

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Plan/Profile drawings shall be 75% complete. Right-of way drawings shall be 100% complete at this submittal.
2. An update to the schedule in Microsoft Projects format showing the critical path shall be submitted.

3. Unless determined to be inapplicable by the OWNER, Hydraulic reports 75% complete, shall be submitted.
4. Three (3) copies of preliminary plans for utilities shall be submitted.
5. Legal descriptions for takings shall be submitted. The information shall be 100% complete.
6. Traffic Control Plan, if required. Plan shall be 60% complete at this submittal.
7. Detailed preliminary construction cost estimate shall be submitted.
8. Results of geotechnical investigations shall be submitted.
9. Utility Project Notification Form from all affected utilities on the project shall be submitted and a list of all utilities that need to be contacted.
10. Two color copies and an electronic copy of an update to the schedule in Microsoft Projects format showing the critical path shall be submitted.

**ATTACHMENT 4**  
**DESIGN REVIEWS**

**N/A TO THIS AGREEMENT**

**90% COMPLETE – FINAL REVIEW**

The review of this submittal is to ensure that the design is in accordance with directions provided the ENGINEER during the design process.

**CONFERENCE FORMAT**

**DISCUSSION TOPICS**

Discussion topics will be handled open forum.

**REQUIRED SUBMITTALS TO THE PROJECT ENGINEER**

1. One full size print copy and one ½ size print copy of all drawings that have incorporated previous comments shall be submitted. Submittals include Plan/Profile drawings, Construction Details, Detailed cross-sections with cut and fill quantities and storm and sanitary sewer crossings. Erosion control plan, if required, Technical specifications, Right-of way drawings, Traffic Control Plan, Plans for Utilities, Signed Acceptance of Utility Project Notification Form by all affected parties, Design Calculations, and a final cost estimate. All submittals shall be 100% complete.
2. Any changes to Land Acquisition needs shall be identified and Legal descriptions for the changes shall be submitted.

**ATTACHMENT 5 - ENGINEERS PERSONNEL FEE SCHEDULE**

**GEO SOLUTIONS, L.L.C.  
CONSTRUCTION TESTING SERVICES  
UNIT RATE FEE SCHEDULE  
G-12-120-A**

<b><u>Item No.</u></b>	<b><u>Description</u></b>	<b><u>Unit Price</u></b>
<b><u>Staffing</u></b>		
P-1	Engineering Technician (Soil and Concrete), per hour .....	\$40.00
P-2	Senior Engineering Technician, per hour .....	\$50.00
P-3	Project Engineer/Manager, per hour .....	\$80.00
P-4	Senior Consulting Engineer, per hour .....	\$110.00
P-5	Administrative Assistant, per hour.....	\$25.00
<b><u>Laboratory Testing</u></b>		
L-1	Compressive Strength Testing of Concrete / Masonry, each .....	\$15.00
L-2	Standard Proctor Test, each .....	\$120.00
L-3	Atterberg Limits Test (LL and PL), each.....	\$75.00
L-4	Modified Proctor Test, each.....	\$120.00
L-5	Sieve Analysis, each.....	\$75.00
L-6	Moisture Content, each.....	\$15.00
<b><u>Equipment Fee</u></b>		
S-1	Truck Charge, per trip.....	\$30.00
S-2	Nuclear Gauge Rental, per day.....	\$25.00
S-3	Penetrometer Rental, per day .....	\$25.00

Note: Overtime for services is time over 8 hours per day, Saturdays, Sundays and holidays. Overtime is charged at 1.5 times the regular time rate. A minimum charge of 2 hours will be invoiced for testing and engineering visits to the jobsite.

These rates will remain in effect through the duration of the contract.

**ATTACHMENT 6 - PROGRESS REPORT  
(Article 8)**

**OMITTED (Not Applicable)**

**ATTACHMENT 7 - SUB CONSULTANTS ENGAGED BY THE ENGINEER**  
**(Article 9.2)**

<b>CONSULTANT NAME AND ADDRESS</b>	<b>DESCRIPTION OF SERVICES</b>	<b>FEE</b>
	N/A	

**ATTACHMENT 8 - CONTRACT DOCUMENT REQUIREMENTS LIST**

<b>REQUIREMENT</b>	<b>SUBMIT TO</b>	<b>SUBMITTAL REQUIREMENT DATE</b>	<b>NUMBER OF COPIES</b>	<b>REFERENCE SECTION OF CONTRACT AND COMMENTS</b>
Deviations from OWNER's standards.	OWNER	Prior to incorporating deviations.	2	Article 2.5
Products or materials specified by the ENGINEER that are available from only one source.	OWNER	Prior to 100% submittal.	2	Article 2.2
Information pertinent to the PROJECT, all criteria and full information as to OWNER's requirements, copies of all design and construction standards.	ENGINEER	So as to not delay the services of the ENGINEER.	2	Article 5.1, 5.2
Notification of delays.	ENGINEER; OWNER	Promptly	4	Article 6.1
ENGINEER's monthly invoices.	OWNER	Monthly	4	Article 8.1.1
Summary of Services	OWNER	Monthly	4	
Documentation, records of reimbursable expenses, record copies of all written communications, and any memoranda of verbal communications related to the PROJECT.	OWNER	Upon notice from the OWNER.	2	Article 9.4
Termination notification.	OWNER or ENGINEER	7 days prior to termination.	2	Article 9.10 & 9.11
Certificate of Insurance for ENGINEER.	OWNER	At 0% design conference	1	Article 10.2(B), 10.6, and attachment 4.
Insurance cancellation, suspension, or reduction in coverage or limits.	OWNER	30 days prior to effective date except for cancellation which is 10 days notification.	1	Article 10.4(A)

## **ATTACHMENT 9 - REQUIREMENTS FOR DOCUMENT SUBMITTALS**

All drawings shall be sized 24" x 36", unless otherwise approved by the OWNERS Project Engineer.

Title blocks shall as a minimum, contain the name of the project, date, city project number, and ENGINEER's name. The title block of drawings shall contain a space for the names of the preparer and the reviewer and/or checker. These blocks shall be signed on each submittal (See Attachment "11" for sample standard drawing format). Drawings shall contain alphanumeric revision designations. Drawings issued for review shall be issued with alpha revision designation and the revision letter shall be changed for each submittal containing drawing changes. Drawings issued for construction shall be issued with numeric designation at revision level "0" and described as "Issued for Construction" in the revision description block. Subsequent drawing changes require the revision level to be raised using successively higher numbers and the changes to be marked by circling and briefly described in a revision block.

Unless otherwise specified by the Owners Project Engineer, all drawings for review submittals shall be full or half-size copies. All documents shall be clearly marked in a revision block indicating the applicable submittal milestone, i.e. 30%, 60%, 90%, etc.

Submittals required by the state of Alabama for their review, bidding, etc., shall be of the size, form and numbers of copies as the state may require even though such submittals may differ from the submittals set forth as being required elsewhere in this Agreement.

All drawings shall be prepared in Micro station .DGN format, unless otherwise approved by the OWNERS Project Engineer. Transmittal letters shall consist of a list of files being submitted, a description of the data in each file, and a level/layer schematic of each design file. DGN design files shall have working units as follows: master units in feet, no sub-units, and 1,000 positional units. All data submitted shall use NAD 1983 Alabama East Zone horizontal datum and NAVD 88 vertical datum coordinates.

Digital files shall be submitted by 4-3/4" CD ROM, DVD, 3 and 1/2 inch floppy disk, or to the City of Huntsville F.T.P. site.

All print copies shall be first generation copies.

All text documents shall be prepared in Microsoft Word 2010 format.

All spreadsheets shall be in Microsoft Excel 2010 format.

A schedule showing the critical path shall be in Microsoft Projects format, unless otherwise approved by the OWNERS Project Engineer.

Aerial photography files shall be in Intergraph (.COT) or (.tiff) format.

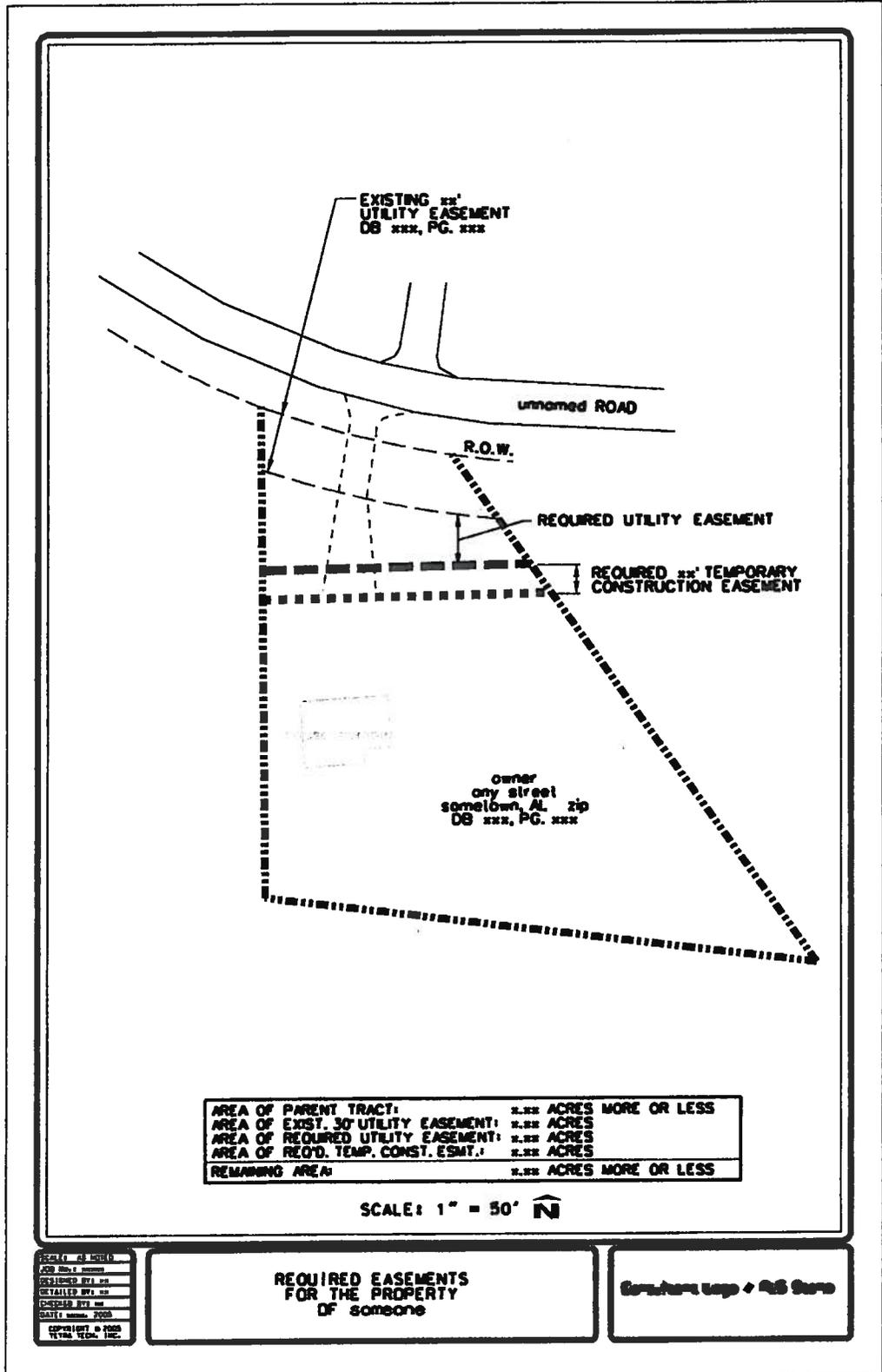
All mapping shall meet National Map Accuracy Standards unless otherwise noted. If National Map Accuracy Standards are not met, the accuracy of the map shall be identified to the Owners Project Engineer and on the maps derived from the aerial survey. National Map Accuracy Standards are shown below. This and other map standards are shown in Department of the Army, US Army Corps of Engineers standard, "EM 1110-1-1000, Engineering and Design - Photogrammetric Mapping". <http://140.194.76.129/publications/engineering-manuals/em1110-1-1000/toc.htm>

**ATTACHMENT 10 – UTILITY PROJECT NOTIFICATION FORM**

**OMITTED (Not Applicable)**



**ATTACHMENT 12  
SAMPLE**



## **ATTACHMENT 13**

### *United States National Map Accuracy Standards*

*With a view to the utmost economy and expedition in producing maps which fulfill not only the broad needs for standard or principal maps, but also the reasonable particular needs of individual agencies, standards of accuracy for published maps are defined as follows:*

- 1. **Horizontal accuracy.** For maps on publication scales larger than 1:20,000, not more than 10 percent of the points tested shall be in error by more than 1/30 inch, measured on the publication scale; for maps on publication scales of 1:20,000 or smaller, 1/50 inch. These limits of accuracy shall apply in all cases to positions of well-defined points only. Well-defined points are those that are easily visible or recoverable on the ground, such as the following: monuments or markers, such as bench marks, property boundary monuments; intersections of roads, railroads, etc.; corners of large buildings or structures (or center points of small buildings); etc. In general what is well defined will be determined by what is plottable on the scale of the map within 1/100 inch. Thus while the intersection of two road or property lines meeting at right angles would come within a sensible interpretation, identification of the intersection of such lines meeting at an acute angle would obviously not be practicable within 1/100 inch. Similarly, features not identifiable upon the ground within close limits are not to be considered as test points within the limits quoted, even though their positions may be scaled closely upon the map. In this class would come timber lines, soil boundaries, etc.*
- 2. **Vertical accuracy,** as applied to contour maps on all publication scales, shall be such that not more than 10 percent of the elevations tested shall be in error more than one-half the contour interval. In checking elevations taken from the map, the apparent vertical error may be decreased by assuming a horizontal displacement within the permissible horizontal error for a map of that scale.*
- 3. **The accuracy of any map may be tested** by comparing the positions of points whose locations or elevations are shown upon it with corresponding positions as determined by surveys of a higher accuracy. Tests shall be made by the producing agency, which shall also determine which of its maps are to be tested, and the extent of the testing.*
- 4. **Published maps meeting these accuracy requirements** shall note this fact on their legends, as follows: "This map complies with National Map accuracy Standards."*
- 5. **Published maps whose errors exceed those aforesaid** shall omit from their legends all mention of standard accuracy.*
- 6. **When a published map is a considerable enlargement** of a map drawing (manuscript) or of a published map, that fact shall be stated in the legend. For example, "This map is an enlargement of a 1:20,000-scale map drawing," or "This map is an enlargement of a 1:24,000-scale published map."*
- 7. **To facilitate ready interchange and use of basic information for map construction** among all Federal mapmaking agencies, manuscript maps and published maps, wherever economically feasible and consistent with the uses to which the map is to be put, shall conform to latitude and longitude boundaries, being 15 minutes of latitude and longitude, or 7.5 minutes, or 3-3/4 minutes in size.*

U.S. BUREAU OF THE BUDGET

# ATTACHMENT 14

## ENGINEERING DEPARTMENT - REAL ESTATE DIVISION PLAN REQUIREMENTS

### **DRAWINGS:**

#### Individual Parcels

- Each individual parcel 8 ½" x 14" (dgn or dxf format)
- Show Calculations
  - Before
  - After
  - Taking
- *All Parcels shall be closed shapes (polygons).*
- Show Existing and Proposed Right-of-Way on each individual parcel map.
- Property Ownership

#### Overall Project Land Acquisition Maps

- Total project drawing in dgn or dxf format
- Indicate the following:
  - Stationing on Centerline
  - Existing Right-of-Way
  - Proposed Right-of-Way
  - Existing Easements
  - Proposed Easements
  - Existing Pavement
  - Proposed Pavement/Sidewalks/Structures
  - Existing Structures
  - Property Ownership

#### Color Standards

(SAMPLE)

<u>Description</u>	<u>Color</u>	<u>Line Style</u>	<u>Type</u>
Existing ROW	Red	Medium Dashed	
Proposed ROW	Red	Solid	Closed Polygon
Existing Easements	Orange	Medium Dashed	
Proposed Easements	Orange	Solid	Closed Polygon
TCE	Pink	Solid	Closed Polygon

### **DESCRIPTIONS:**

- Microsoft Word on 3.5" Diskette or CD
- Each Description shall be complete and independent (separate file).
- Hard Copies signed and stamped by PLS.

### **GENERAL:**

- P.K. Nails or other permanent stationing markings shall be required.
- Re-staking of right-of-way or easements may be required (See Article 4).
- All survey plats to be on Alabama State Plane Datum. Strip Maps shall indicate at least 2 monuments in place with Alabama State Plane Coordinate values shown on each.
- Parcel plats and legal descriptions shall indicate the Alabama State Plane Coordinate NAD83 Alabama East Zone Value of the point of beginning.

**ATTACHMENT 15 - GIS BASE MAP**

DESIGN LEVEL	CONTENTS	LINE CODE	COLOR	WEIGHT	TEXT SIZE	FONT	CELL NAME
1	State Plane Coordinate Grid	0	0	0	20	0	
2	Benchmarks	0	0	0			
3	Private Street Text	0	105	0	20	0	
3	Street Text	0	3	0	20 (or 18)	0	
4	Street R/W	7	0	0			
5	Street Centerline	7	0	0			
6	Street Pavement	0	3	0			
6	Proposed Street Pavement	3	16	0			
6	Private Streets	0	105	0			
6	Proposed Private Road	3	105	0			
7	Parking Lots	1	3	1			
7	Private Lots used as Roads	1	105	1			
8	Secondary Roads--Private	2	105	0			
8	Secondary Roads	2	3	0			
8	Trails	3	3	0			
9	Secondary Roads/Trails Text	0	3	0	20	0	
10	Sidewalks	5	3	0			
11	Bridges/Culverts/Paved Ditches	0	0	0			
12	Hydrology - Major	6	1	0			
12	Hydrology - Minor, Ditches	7	1	0			
13	Hydrology - Text	0	1	0	25	23	
14	Tailings & Quarries, Athletic Fields/Text, misc. areas	0	1	0			
15	Greenways	3	48	0			
16	Speed Tables	0	3	0			TCALM
17	Railroad Tracks (Patterned)	0	2	0			RR
18	Railroad Text	0	2	0	25	0	
19	Railroad R/W	2	2	0			
20	Utility Poles (Cell)	0	5	0			P POLE
21	Utility Easements	3	5	0			
22	Utility Text	0	5	1			
23	Geographic Names	0	3	1			
24	Building Structures	0	0	0			
24	Pools and Text	0	1	0	10	1	
24	Future Site of Structures	2	0	0			STRUCT
24	Existing Structures (exact location and shape unknown)	2	0	0			STRCEX
25	Property Lines/ refuge bdy.	6	6	1	30	1	
26	Cadastral Polygons	6	6	0			
27	Ownership Text	0	6	1			
28	Cemeteries/Text	4	6	0	10	1	
29	Lot Numbers				25	0	
30	Block Numbers				30	0	
31	Addition Names	0	0	0	35	0	
32	Open						
33	Lot Ticks						
34	Lot Lines/Property Lines	6	6	0			
35	Trees/Hedge Rows	0	6	0	AS=1		TREES
36	GPS Monuments	0	5	0	18	23	CONTRL
37	2' Topo Contour						
38	5' Topo Contour	0	7	0			
39	25' Major Topo Contour	0	7	0			
40	X Spot Elevation	0	7	0			
41	FEMA Monuments/Labels	0	3/0	0	18	1	FEMA
42	Quarter Sections						
43	Section Lines	0	5	0			
44	Features	0	2	0			
44	Cell Towers	0	12	0	AS=1		CELTWR

45	Fences (Pattern)	0	8	0	AS=1		FENCE
46	Format/Legend	0	0	0			Limleg Madleg
47	Mass Points	0	7	2			
48	Break Lines	0	7	2			
49	Open						
50	Billboards	0	37	1			BBOARD
51	Sanitary Sewer	0		3			
52	Sanitary Sewer Text						
53	Storm Water Features	0		3			
54	Storm Water Text						
55	Open						
56	Property Address	0	1	0			
57	Text Tag for Buildings	0	1	0	10-20	1	
58	One Way Arrows	1	3	1			
59	Open						
60	Open						
61	Open						
62	Monuments for Setup (point cell)						
63	Open						