

February 21, 2023

Mr. Michael Johnson, PE
City Engineer
City of Madison
100 Hughes Road
Madison, Alabama 35758

RE: Proposal
Balch / Browns Ferry Roundabout

Dear Mr. Johnson:

Barge Design Solutions (Barge) is pleased to respond to your request for a proposal for professional services relative to the design of Balch / Browns Ferry Roundabout. Barge will provide the services listed as outlined in the attached Scope of Services.

If you should have any questions, please feel free to call Jack Kimbrough, Jr. PE, at 256-203-8949.

Sincerely,

Barge Design Solutions, Inc.



Jack Kimbrough, Jr. PE
Client Services Leader
Vice President

c: File

Enclosures: Scope of Services

The scope of work is presented in the following elements.

- I. Project Description
- II. Scope of Services
- III. Additional Services
- IV. Project Understanding, Assumptions, and Exclusions
- V. Time of Performance
- VI. Client's Responsibilities
- VII. Deliverables
- VIII. Compensation

I. Project Description

Balch/Browns Ferry Road Roundabout

Project Description: The proposed project will include the construction of a new Roundabout at the intersection of Balch Road and Browns Ferry Road near Mill Creek in the City of Madison. A traffic analysis will be done to recommend proper lane configuration and geometry are used to meet existing and projected traffic needs. The roundabout shall match the existing roadway typical section and utilize paved shoulders while providing pedestrian facilities maintaining the existing connectivity. In general, the scope of work proposed by Barge for this project includes field survey, traffic analysis, preparation of roadway plans and right-of-way documentation for the above improvements.

II. Scope of Services

Barge proposes the following Scope of Services related to the above-noted items:

A: Field Survey

Barge will have a topographic and right of way survey performed for the area shown below in Figure 1. The work under this task will include collecting utility, right of way, drainage and topographic information for the length of the project as shown. In addition to conventional survey, after the 60% design review, Barge will engage a hydro-excavation firm to locate up to 8 utilities during a single site visit for utility conflict purposes.

- Deliverables for this task include base maps and CADD files
- No additional meetings are anticipated for this task.

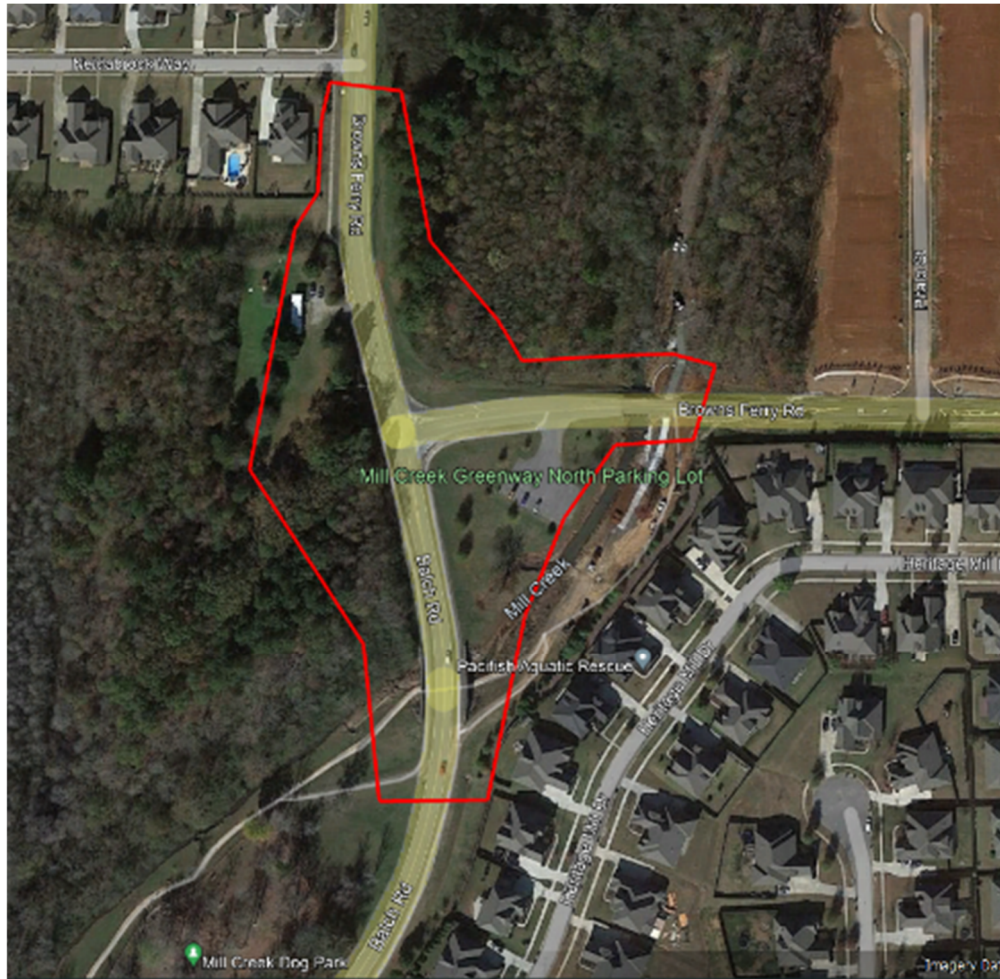


Figure 1

B: Traffic Analysis

Barge will review traffic counts (including turning movements) provided by the City for the project intersection.. Traffic information will be used to prepare a SIDRA model to evaluate improvements provided by a roundabout and provide recommendations to lane configuration for the roundabout and approaches. A concept exhibit and memorandum will be developed for discussion to document the recommendations.

C: Right of Way Documents

Barge will prepare a right-of-way map, tract sketches, and legal descriptions for right-of- way to be acquired for construction of the proposed improvements. Barge assumes 3 takings for this project. The City will negotiate with the landowners and acquire the required right-of-way.

D: Roadway Design

Barge will prepare roadway design plans for this project. These documents will include construction plans of roadway geometry, earthwork, drainage, striping, temporary traffic control, permanent and temporary erosion and sediment control, and permanent signage. All work performed for Section II of this scope shall be done in conformance with City standards, and will follow MUTCD and AASHTO standards, as appropriate.

GTEC, Inc. will perform a geotechnical investigation and prepare a materials report as a subconsultant to Barge. See the attached proposal from GTEC for more details.

III. Additional Services

If additional services beyond the tasks outlined in Section II are required, this work can be completed after a supplemental agreement is executed.

IV. Project Understandings, Assumptions, and Exclusions

A. Barge will provide the above-noted services based upon a given set of assumptions. These assumptions are as follows:

1. Barge will have access to the site and adjoining areas, as required.
2. Permit, recording fees, etc., are to be paid by the City.
3. Construction duration is assumed to be 6 months. Bidding and Construction Administration services are excluded from this contract.
4. The scope and fee noted herein assumes that the project limits will not include changes to any bridges, therefore, no bridge design services are included as part of this scope.
5. Construction budget for items listed in our scope of services is unknown at this time; Barge will strive to work with the City in the establishment of this budget but cannot be held responsible as to whether or not the yet-undefined budget is achieved.
6. Descriptions and exhibit drawings for the acquisition of easements are to be prepared one time if noted herein.
7. Project will be funded with City funds. No state or federal monies are anticipated to be used for this project.
8. Environmental and cultural resources studies and reports are excluded. Environmental and cultural resources clearances for the project will be obtained by the City, if needed.
9. Schedule is dependent upon the timely receipt of critical information. Information to be provided by others will be received in a timely manner that corresponds to the project schedule. If the information is not received in a timely manner, then additional design fees may be required.
10. Construction plans will utilize the City's standard details and specifications and/or ALDOT's standard details and specifications.
11. Stormwater detention will not be required.

12. Bid phase and construction phase services beyond those described above will not be required.
 13. Inspections and/or Resident Project Representative will be provided by others.
 14. Public involvement meetings are not required.
 15. OMIT
 16. Surveyors will not locate individual trees within obscured areas. A tree line or outline of dense vegetation will be noted on the drawing. Individual trees above 5 inches in diameter apart from wood lined areas will be located and denoted for size.
 17. Surveyors will not locate any building interiors, only building corners comprising the exterior footprint.
 18. Sub-surface utility designation or location will be as follows:
 - A. The surveyor will put in a design ticket with AL811 and locate utility markings made by others throughout the Limits of Survey as shown in Figure 1 above.
 - B. It should be noted that existing utility plans, as-builts, or CADD files pertaining to utility locations should be provided to the surveyor before beginning the project.
 - C. Typically, AL811 only marks in the public right-of-way; however, if markings are present within the LOS as shown in Figure 1 the surveyor will locate said utility markings.
 19. No sub-surface utility designation or location will be performed by Barge outside of what is listed above. Should the client need additional SUE services, Barge can perform that as an Additional Service.
 20. The field survey and drawing will be performed in accordance with the rules and regulations of the Alabama Board of Land Surveyors and under the direction of an Alabama Professional Land Surveyor.
 21. Although the project limits are near a FEMA-regulated floodway, at the time of scope development, it is anticipated that the project improvements can be constructed outside the regulated floodplain and/or floodway. Should that condition change, an amendment for the appropriate permitting will be required.
 22. Landscaping and Lighting Design are not included in this scope.
- B. The following excluded services can be provided as an additional service with an appropriate adjustment in fees.
1. Services resulting from significant changes in general scope or character of the project or its design, particularly those resulting from differing field conditions discovered during construction (such as, but not limited to, soil conditions, environmental issues, etc.)
 2. Retaining wall design.
 3. Utility relocation design.
 4. Right-of-Way negotiation services
 5. Permitting (other than NPDES NOI Submittal)

V. Time of Performance

Barge is prepared to begin work within one (1) week upon receipt of a signed professional services agreement or written authorization to proceed. Upon receipt of the authorization to proceed, Barge will furnish a schedule to the City.

VI. Client's Responsibilities

Barge strives to work closely with our clients. In order for the project team to function efficiently, certain information is needed to be provided by the Client and other interested stakeholders in a timely manner. These items and responsibilities are noted below.

- A. Provide information as required to support development of Barge's scope, as required in the project agreement for services.
- B. Provide review comments in a timely manner.
- C. Provide single point of contact for project coordination purposes.

VII. Deliverables

Several deliverables will be produced as part of the basic professional services. The following is a list of documents that will be produced as a part of this effort.

- A. Traffic Memorandum
- B. Construction plans (30% 60%, 90%, and 100% submittals) and OPCC's (60, 90 and IFC)
- C. Design and survey CADD files
- D. Right-of-Way deeds and tract sketches
- E. Project manual for bidding

Barge will attend meetings for these tasks in accordance with the list below:

Description	Location	# Occurrences
Kickoff Meeting	Madison	1
30% Design Rev.	Madison	1
60% Design Rev.	Madison	1
90% Design Rev.	Madison	1

VIII. Compensation

Fee Summary Table

Items	Fee Type	Fee Amount
Survey	Lump Sum	\$20,400
Traffic Analysis	Lump Sum	\$16,700
Right-of-Way Documentation	Lump Sum	\$13,700
Roadway Design	Lump Sum	\$148,600
Total	LS	\$199,400



January 19, 2023

Barge Design Solutions
200 Clinton Avenue, Suite 800
Huntsville, Alabama, 35801

ATTN: Mr. Jack Kimbrough

SUBJECT: Proposal for Geotechnical Engineering Study
Brownsferry Rd and Balch Rd Intersection
Madison, Alabama
GTEC Proposal No. 0803-P

Ladies and Gentlemen,

GTEC, LLC is pleased to provide this proposal for a Geotechnical Engineering Study for the above referenced project in Madison, Alabama. Project information was provided by Mr. Jack Kimbrough during a phone conversation on January 17, 2023. This proposal describes the site and presents a planned scope of services, fees, and anticipated schedule.

GTEC, LLC was established in 2020 with more than 60 years combined experience in geotechnical engineering, environmental assessments, permitting, and construction testing services. We value client relationships and strive to provide services for the development of successful projects.

PROJECT INFORMATION

GTEC understands that Barge Design Solutions has been requested to design improvements for the intersection of Brownsferry Road and Balch Road. The improvement will include a new roundabout, pavements, and striping. The southwest corner of the intersection contains trees and a house, the northwest corner of the intersection contains trees and a subdivision, and the east side of the intersection contains a grassed area and a sidewalk. Drainage is currently handled by an underground stormwater detention system on all three sides of the intersection. GTEC understands that no coordination with the Alabama Department of Transportation (ALDOT) will be required, and the materials report will not be submitted as part of the ALDOT review process.

SCOPE OF SERVICES

The purpose of our study is to explore the subsurface conditions and groundwater levels in order to provide recommendations for construction planning. To accomplish this objective, we have developed the following scope of services.






We will contact Alabama One Call prior to the performance of our field services. The utility location services will only mark registered public utility lines; therefore, we will need assistance in locating private lines or underground structures.

Boring locations will be marked using a hand-held GPS unit. If a topographic survey is provided, boring elevations can be estimated by interpolating between contour lines. If more accurate location and elevation are needed, we recommend our boring locations be surveyed.

Field Activities







GTEC proposes to explore the subsurface conditions with three (3) soil test borings during this study. Each boring will be advanced to a depth of 10 feet, or auger refusal, whichever occurs first. Standard penetration tests (SPT) in accordance with ASTM D1586 will be conducted in conjunction with the soil test borings. The SPT tests will be performed at 2-½ foot intervals in the upper 10 feet and at 5-foot intervals thereafter to boring termination or auger or SPT refusal. Pocket penetrometer readings may be taken on each sample and recorded on the Boring Log. Upon completion, subsurface water will be measured and recorded in each borehole, and the borehole will be backfilled with soil auger cuttings. Additionally, three (3) asphalt cores will be collected from the existing streets, and the underlying base thicknesses will be measured to record the total thickness of the existing pavement sections.

A member of our staff will supervise the drilling activities and visually classify the soil samples in general accordance with ASTM D2488, the Standard Practice for Description and Identification (Visual-Manual Procedure). Based on the anticipated conditions, we plan to perform the following laboratory tests on select samples:

-  Natural Moisture Content (Soil), ASTM D2216
-  Atterberg Limits, ASTM D4318
-  California Bearing Ratio, ASTM D1883

Engineering Evaluation and Report

After our analyses are complete, we will issue a written report describing the exploration and outlining our recommendations. The report will include the following:

-  Our understanding of the planned project,
-  A summary of existing site conditions, site geology, and topography,
-  Records of test borings outlining the materials encountered at the test locations,
-  Results of laboratory tests performed to provide information regarding the engineering characteristics of the subsurface materials,
-  Pavement thickness recommendations,
-  Groundwater concerns, if encountered.



FEE AND SCHEDULE

At this time, we propose our services described for a lump sum fee of \$6,700.00. Services not included in the scope can be added at our prevailing unit rates. We will schedule field activities upon receipt of this contract authorized by signature below and provide the planned dates of services. Final reports will be issued within four to six weeks of authorization. This proposal is valid if accepted within 60 days of issuance.

AUTHORIZATION

Should this proposal meet your objectives, please sign, date, and return. Signed authorization will constitute acceptance of the fee, schedule, and General Terms and Conditions, which are included with this proposal. Any modification to this proposal, the fee, schedule, or General Terms and Conditions must be accepted by both parties.

To Authorize this Proposal, please sign below:

<u>Paul Finley, Mayor</u>	<u>City of Madison, Alabama</u>
Printed Name/Title	Company Name
<u></u>	<u>100 Hughes Road, Madison AL 35758</u>
Signature and Date	Billing Address
	<u>ap@madisonal.gov</u>
	Accounts Payable Email Address

CLOSING REMARKS

We appreciate this opportunity to be of service and look forward to working with you on this project. If you have any questions regarding this proposal or would like to discuss the proposed scope and budget, please do not hesitate to contact GTEC.

Respectfully,
GTEC

Lori McCafferty, E.I.
Staff Engineer

Jeremy C. Jess, P.E.
Executive Vice President

Attachments: General Terms and Conditions