IVALDI
ENGINEERING

August 7, 2025
City of Madison
Michelle Dunson, P.E., CFM
100 Hughes Road
Madison, AL 35758

Re: Proposal for Professional Engineering Services
Town Madison Boulevard and I-565 Intersection Improvements

To Whom It May Concern,

Ivaldi Engineering, PLLC ("Engineer") would like to thank you for the opportunity to provide this proposal agreement for professional services on the above referenced project.

We propose to offer the following services:

1. Boundary and/or Topographic Surveying
2. Geotechnical Engineering Study
3. Design Phase Services
4. Traffic Engineering Services
5. Bid Phase Services

A more detailed project-specific Scope of Services and our fees are attached and identified as Exhibit "A". Industry standard reimbursable expenses have not been included in the fees. Expenses may include, but are not limited to; copies, overnight delivery and postage, and courier charges. Also attached is Ivaldi Engineering's Standard Professional Services Agreement. If the proposal is acceptable, please sign the last page of the Professional Services Agreement and return one copy for our records and to initiate the start of services. Again, we thank you for the request. If you have any questions, please do not hesitate to contact us. We look forward to working with you on this project.

Sincerely,

Eric Bonds, P.E.
Ivaldi Engineering, PLLC
COO & Founding Partner

Attachments

- Exhibit "A" Scope of Services

Cc: File

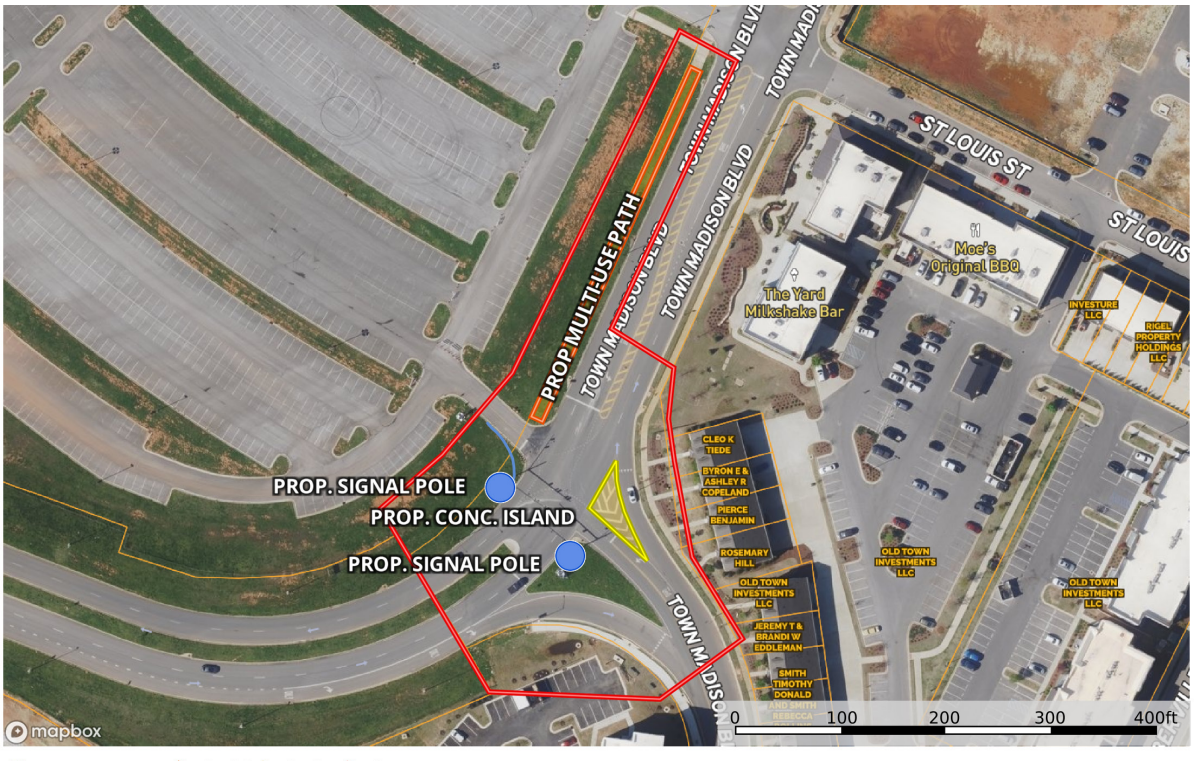
Exhibit "A"
Town Madison Boulevard and I-565 Intersection Improvements
Proposed Scope of Services
August 7, 2025

Ivaldi Engineering, PLLC proposed scope of services is presented in the following elements:

I. Project Description
II. Scope of Services
III. Assumptions
IV. Additional Services
V. Time of Performance
VI. Owner's Responsibilities
VII. Deliverables
VIII. Compensation

I. PROJECT DESCRIPTION

The City of Madison has observed and studied traffic operations at the intersection of Town Madison Boulevard and I-565 and have requested that the intersection be modified to accommodate current traffic volumes and add pedestrian crossings and signalization. The City of Madison Engineering Department has requested Ivaldi Engineering provided the design and recommendations for the intersection improvements. The improvements include but are not limited to a traffic signal with pedestrian movements, improved driveway geometry at the baseball stadium road turning right towards 565 and a multi-use pathway connection along the northern side of Town Madison Boulevard to the terminus of the existing pathway. Stormwater is planned to use the existing network with no modifications.



II. SCOPE OF SERVICE

1. SURVEYING SERVICES

A. SUBSURFACE UTILITY SURVEYING

Subsurface Utility Engineering (SUE) is the investigation of underground utilities to help aid in the design of the site. The following is a description of the Levels of Utility Surveying. The information is provided for information purposes only.

1. QUALITY LEVEL D

The process of gathering record data and depicting utilities on the survey. This data could be digital records, paper records, web search, visual site observations, or talking to previous owners. All data will be depicted on the drawing with a statement of the Quality Level of the information.

2. QUALITY LEVEL C

The process of surveying the visible utility features, or if they have already been surveyed, and checking the surveyed locations for accuracy. This data is compiled with the Quality Level D data and both levels of data are labeled accordingly on the Drawings.

3. QUALITY LEVEL B

Involves designating the underground utilities by markings provided through an 811-dig call or by contacting an individual utility company. This data is added to the data collected from Quality Levels D and C.

4. QUALITY LEVEL A

This level involves physically locating the actual utility, often by “potholing”. Once the utility is potholed, it is located horizontally and vertically by surveying.

B. NPS BOUNDARY SURVEYING

1. BOUNDARY SURVEY

A boundary/Right-Of-Way survey of the intersection area will be provided. All property corners will be recovered and visibly flagged. Adjoining roads rights-of-way will be established per current deeds and/or road rights-of-way plans in the area of work.

C. TOPOGRAPHIC SURVEYING

1. TOPOGRAPHIC SURVEY

We will provide a complete topographic survey for the referenced site area. Contours will be depicted at a one (1) foot interval and will be based vertically on the nearest available vertical benchmark. All above ground existing features includes, but is not limited to; curb and gutter, pavement, buildings, power lines, catch basins, drainage structures, paint stripes, ditches, sidewalks, etc. and will be shown. Utility information will be depicted based on SUE Quality Level B.

D. AS-BUILT SURVEY

1. AS-BUILT SURVEY

We will provide an update to the topographic survey for the referenced site area. Contours will be depicted at a one (1) foot interval and will be based vertically on the nearest available vertical benchmark. All above ground existing features includes, but is not limited to; curb and gutter, pavement, buildings, power lines, catch basins, drainage structures, paint stripes, ditches, sidewalks, etc. and will be shown. Utility information will be depicted based on SUE Quality Level B.

2. MASTER PLANNING SERVICES

A. GEOTECHNICAL INVESTIGATION

A Geotechnical Investigation will be perfromed by GTEC as our subconsultant. The investigaiton will provide signal pole foundation recomendation designs as well as pavement build up recomendations. A copy of their scope of services can be provided upon request.

3. DESIGN PHASE SERVICES

A. SCHEMATIC DESIGN PHASE (30%)

1. SCHEMATIC SITE PLAN

We will prepare one schematic site plan based on furnished information and Client's desired requirements.

2. SCHEMATIC GRADING PLAN

Based on the schematic site plan, we will provide schematic grading to evaluate site evaluations.

3. SCHEMATIC SIGNAL PLAN

Based on the schematic site plan, we will provide schematic signal plan.

4. MEETINGS AND COORDINATION

We will coordinate with the project lead, other project team members and owner regarding possible design options, site constraints, and other potential issues. Additionally, we will also coordinate electronic transfer of information, drawings, and other pertinent or requested information with design and construction team members as requested.

5. CONCEPT REVIEW

As requested by the Client, we will submit the schematic plans for review as a part of due-diligence and project formulation or as required by the local agency as part of the plan review process.

B. DESIGN DEVELOPMENT PHASE (60%)

Based on the accepted Schematic Design drawings the Design Development (DD) Phase will represent roughly 60% project completion. A set of plans containing the following design and information will be included. Significant revisions to the Scope of the project during Design Development may result in additional services for the Final Design Phase.

1. COVER SHEET

Includes sheet index and identifies the name, location, and Client of the Site and/or project. Appropriate permitting information may be also required on the cover sheet.

2. EXISTING CONDITIONS

Based on the survey, we will prepare an existing conditions plan. Some municipalities require a copy of the signed and sealed survey.

3. SITE PLAN

A preliminary Site Plan will be created based upon the Client's requirements and our understanding of the proposed project.

4. SIGNAL PLAN

A preliminary Signal Plan will be created based upon the Client's requirements and

our understanding of the proposed project.

5. **UTILITY PLAN**
   Coordination and preliminary design of the signal utility infrastructure. We will depict preliminary locations for power poles, conduits, pull boxes, equipment pads, and show any existing utilities in conflict that may need to be relocated.

6. **GRADING AND EARTHWORK**
   We will prepare grading plan(s) based on the existing conditions plan, design development site plan, and geotechnical engineer's reports. We will begin preliminary earthwork calculations that will be computed based on the existing and proposed contours as shown in out AutoCAD design files. The Engineer makes no warranty that all project sites will have a balanced earthwork volume. We will not make adjustments for topsoil, shrinkage, and rock.

7. **STORM DRAINAGE SYSTEM DESIGN**
   We will begin laying out the storm drainage system, including ditches, culverts, inlets, pipes, etc., based on preliminary grading.

8. **CONSTRUCTION DETAILS**
   We will begin including pertinent typical civil construction details and local permitting agency details.

9. **MEETINGS AND COORDINATION**
   We will coordinate with the project lead design requirements, permitting, and schedule. Project coordination includes electronic transfer of information, including drawings and other pertinent or requested information, to design and construction team members

C. FINAL CONSTRUCTION DOCUMENTS PHASE

The Final Construction Documents Phase represents 100% project completion and preparation for submittal to permitting agency or municipality. This phase will consist of two separate submittals one at 90% completion and a final at 100% plan completion.

1. **QUANTITIES ESTIMATE**
   We will provide a construction materials quantities estimate and engineer's opinion of cost suitable for biding use.

2. **SITE DEMOLITION PLAN**
   We will prepare a basic site demolition plan. This plan is provided to indicate the general intent of the required demolition. Additional demolition and coordination may be required by the Client and/or Contractor.

3. **SITE PLAN(S)**
   Includes the proposed layout of the project with the appropriate dimensions and coordinates for proper construction of the project. The site plan will depict the layout of the proposed improvements, including sidewalks, ramps, and other site features.

4. **PAVING, SIGNING, AND STRIPING PLAN(S)**
   The plan(s) will depict the legends, striping, signs, paving for the project with the appropriate dimensions and coordinates for proper construction of the project.

5. **SIGNAL PLAN(S)**
   Includes the proposed layout of the proposed signal with the appropriate dimensions and coordinates for proper construction of the signal. Equipment to be specified will

include, poles, mast arms, signal displays, controller, detectors, pull boxes, pedestrian poles, push buttons, and conduits. Other items to be shown will include stripping, legends, signage, and phasing diagram. A comprehensive list of materials and controller cabinet input assignments will also be provided.

6. UTILITY PLANS

The utility plan will depict the design of the signal and signal utility infrastructure. We will depict designed locations for poles, conduits, pull boxes, equipment pads, and show any existing utilities in conflict that will need to be relocated.

7. GRADING PLAN(S)

Includes existing and proposed grade elevations and spot elevations where appropriate for construction, which shall be based on geotechnical reports where applicable. Grading will plans shall meet the latest ADA requirements as applicable. Earthwork calculations will be computed based on the existing and proposed contours as shown in out AutoCAD design files. The Engineer makes no warranty that all project sites will have a balanced earthwork volume. We will not make adjustments for topsoil, shrinkage, and rock.

8. STORM DRAINAGE SYSTEM DESIGN

The storm drainage system, including ditches, culverts, inlets, pipes, etc., will be designed for the storm frequency required by the local permitting and other pertinent design parameters in accordance with applicable codes and ordinances. The storm drainage design, computations, and other computer program output may be included on the plans as a Hydraulics Chart.

9. STORM DRAINAGE PROFILES

We will provide design profiles for the proposed storm drain pipes. The profiles will include hydraulic grade lines per the storm drainage design as required by the local agency, as well as utility crossings. A pipe chart will be shown on the profile sheet indicating storm flows and hydraulic grade line elevations.

10. TRAFFIC CONTROL PLAN

We will provide a traffic control plan suitable for use by the contractor durring the construction of this project. The traffic control plan will meet MUTCD standards.

11. CIVIL CONSTRUCTION DETAILS

Final typical civil construction details and local permitting agency details.

12. MEETINGS AND COORDINATION

We will coordinate with the project lead and/or Owner design requirements, permitting, and schedule. Project coordination includes electronic transfer of information, including drawings and other pertinent or requested information, to design and construction team members.

13. EROSION AND SEDIMENT CONTROL BMP DESIGN

We will provide the Erosion, Sedimentation and Pollution Control Design and Plans in accordance with State of Alabama requirements for Best Management Practices (BMP) and the NPDES General Permit. These plans may include the following:

a. Initial Erosion Control Plan

Includes perimeter control BMPS and the design of initial sediment storage BMPs.

b. Intermediate Erosion Control Plan

Includes BMPs during grading operations and drainage installations and design of

sediment storage BMPs.

c. Final Stabilization Plan
Include final site stabilization, the removal of all temporary BMPs and the incorporation of final and permanent BMPs.

d. Erosion Control Details
Details of BMPs for all phases of construction.

4. TRAFFIC ENGINEERING SERVICES

A. EXISTING TRAFFIC DATA

Traffic data will be gathered on a typical weekday in the study area. Data collection will consist of peak hour turning movement counts between the hours of 7-9 AM, 11-1 PM, 4-6 PM at the intersections of Town Madison Boulevard and I-565. From the data collected, the AM and PM peak hour turning movement volumes will be determined. A background growth rate will be applied to the existing volumes to be utilized for the queuing study.

B. SIGNAL ANALYSIS

A Signal Analysis will be performed on the proposed signal to ensure or recommend adequate turn lane storage depth, determine the proposed level of service, and to provide base signal timings.

5. BID PHASE SERVICES

A. PRE-BID MEETING

We will attend a pre-bid meeting for the proposed project.

B. ADDENDA

We will prepare addenda to the bid as necessary.

C. BID QUESTIONS

We will respond to questions from bidders in a formal response to the client.

D. BID EVALUATION

We will assist the Owner with the evaluation of the bidders.

III. ASSUMPTIONS

The following is a list of assumptions related to the noted proposal:

- Client will appoint a single point of contact for coordination purposes.
- Access to the site as required for Ivaldi Engineering and their subconsultants.
- No utilities cross the project that may need to be relocated.
- No off-site utility design.
- No retaining wall design as part of the proposal.
- Permit and plan review fees to be paid by the owner.
- Fees are based on a single design package and permitting submittal in general conformance with the attached site layout.
- This proposal is presented with the understanding that Ivaldi Engineering has been chosen to perform the work based on our professional qualifications for the project. According to the Alabama Board of Licensure for Engineers and Land Surveyors, licensees are prohibited from engaging in simultaneous negotiations or soliciting fee proposals from multiple engineers. If

this proposal is being utilized under such circumstances, we are obligated to withdraw it.

IV. ADDITIONAL SERVICES

Services that are not included but may be provided by Ivaldi Engineering as an additional service include:

- Construction administration services
- Construction stake-out surveying
- Materials Testing
- Utility designs for water, sewer, gas, telecom, or electric
- Alabama Department of Transportation Permitting
- ADEM NPDES Construction Stormwater Permitting
- Assistance with bid protests and rebidding
- Construction phase revisions to unforeseen conditions;
- Construction phase revisions to the erosion control plans due to contractor requested revision, hydrologic changes, and all other site revisions.
- Value Engineering, design changes, or plan revisions after Client approval

Fees for Additional Services

The fees for additional services, upon request and authorization provided by the Owner, will be billed at Ivaldi's standard hourly rates or at a negotiated lump sum amount. A copy of Ivaldi's standard hourly rates can be provided upon request.

V. TIME OF PERFORMANCE

Subject to your authorization, we are prepared to begin work immediately and will continue to do so until completion. It is estimated that plans can be ready for submittal to the Authorities Having Jurisdiction (AHJ's) no later than 12 weeks after receiving written notice to proceed from the Client. Client initiated revisions to the project layout or program after our services commence may require an adjustment in fee and schedule. This schedule is based on the Engineers current workload and is subject to change if notice to proceed is not provided within 30 business days. Please note that the Engineer is only responsible for the timeline of Ivaldi's work and design and does not have control over the City's approval process.

VI. OWNER'S RESPONSIBILITIES

- Review documents and respond to questions in a timely manner.
- Appoint a single point of contact for project coordination purposes.
- Provide project requirements and system data as required. Changes after the Engineer commences services may require a change in fee and additional time to complete.
- Execute permit applications and pay all required permit and plan review fees.

VII. DELIVERABLES

Additional copies provided as a reimbursable expense:

- Quantities Estimate
- Civil Site Plans
- CAD files (version)

VIII. COMPENSATION

FEES		
DESCRIPTION	**FEE TYPE**	**FEE**
Boundary AND Topographic Surveying		
Boundary and Topographic Survey (SUE B)	Lump Sum	$9,350.00
Ground Penetrating Radar	Lump Sum	$3,630.00
Potholing (SUE A)	Lump Sum	$7,887.50
As-Built Survey (SUE B)	Lump Sum	$1,980.00
Master Planning Services		
Geotechnical Engineering Study	Lump Sum	$9,350.00
Design Phase Services		
Schematic Design Phase	Lump Sum	$12,090.00
Design Development Phase	Lump Sum	$12,890.00
Final Construction Document Phase	Lump Sum	$13,980.00
Traffic Engineering Services		
Traffic Engineering Services	Lump Sum	$5,500.00
Bid Phase Services		
Bid Assistance and	Hourly, NTE	$2,800.00
Post Permit and Construction Phase Revision		
Post Permit and Construction Phase Revisions	Hourly	Hourly
Reimbursable Expenses	@ Cost	@ Cost
	Total	$79,457.50*

**Does not include hourly service*