Illinois Department of Transportation

#23-39

Local Public Agency Engineering Services Agreement

Using Federal Funds? ☐ Yes ☒ No

Agreement For: MFT PE

Agreement Type: Original

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
Marshall County	Marshall	99-00080-00-FP	

Project Number	Contact Name	Phone Number	Email
	Pat Sloan	(309) 246-6401	psloan@marshallcountyillinois.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
CH 6	FAS 372	5500'	N/A

Location Termini

Project begins approximately 2.5 miles west of the CH 6/IL 29 intersection, proceeds in a westerly direction for 1.042 miles, and ends approximately 3.5 mi. east of the intersection of CH 7 with CH 6.

Add Location

Remove Location

Project Description

Project consists of realigning CH 6 for 1.042 miles. The proposed work includes earthwork, culvert construction, aggreate subbase, HMA pavement, riprap and other temporary and permanent erosion control measures, amd other collateral work.

Engineering Funding ☐ MFT/TBP ☐ State ☒ Other Local

Anticipated Construction Funding ☒ Federal ☒ MFT/TBP ☒ State ☒ Other LOcal

AGREEMENT FOR

☐ Phase I - Preliminary Engineering ☒ Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
Hutchison Engineering, Inc.	W. Shane Larson	(309) 368-0689	slarson@hutchisoneng.com

Address	City	State	Zip Code
8305 N. Allen Road, Suite 4	Peoria	IL	61615

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

Regional Engineer	Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation
Resident Construction Supervisor	Authorized representative of the LPA in immediate charge of the engineering details of the construction PROJECT

In Responsible Charge	A full time LPA employee authorized to administer inherently governmental PROJECT activities
Contractor	Company or Companies to which the construction contract was awarded

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

☒ EXHIBIT A: Scope of Services

☒ EXHIBIT B: Project Schedule

☒ EXHIBIT C: Qualification Based Selection (QBS) Checklist

☒ EXHIBIT D: Cost Estimate of Consultant Services (BLR 05513 or BLR 05514)

☐ EXHIBIT __ : Direct Costs Check Sheet (attach BDE 436 when using Lump Sum on Specific Rate Compensation)

☐ _____

☐ _____

☐ _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of US Department of Transportation (US DOT) assisted contract. Failure by the Engineer to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LPA deems appropriate.
8. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
   (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
   (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the DEPARTMENT.
   (c) That the ENGINEER is qualified technically and is thoroughly conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated in Exhibit A (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See DIRECT COST tab in BLR 05513 or BLR 05514).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Professional Services Selection Act (50 ILCS 510) (Exhibit C).
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.
3. To pay the ENGINEER:
   (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.

(b) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

(c) For Non-Federal County Projects - (605 ILCS 5/5-409)

(1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, monthly payments for the work performed shall be due and payable to the ENGINEER. Such payments to be equal to the value of the partially completed work in all previous partial payments made to the ENGINEER.

(2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

☐ Percent

☐ Lump Sum

☐ Specific Rate

☒ Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:
DL is the total Direct Labor,
DC is the total Direct Cost,
OH is the firm's overhead rate applied to their DL and
FF is the Fixed Fee.

Where FF = (0.33 + R) DL + %SubDL, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national original or sex in the award and performance of any US DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this AGREEMENT. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General, and the DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.

2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

   The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.

3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all drawings, plats, surveys,

reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.

5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.

6. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

7. The ENGINEER and LPA certify that their respective firm or agency:

   (a) has not employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
   (b) has not agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
   (c) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
   (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
   (e) has not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property.
   (f) are not presently indicated for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph and
   (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

   Where the ENGINEER or LPA is unable to certify to any of the above statements in this clarification, an explanation shall be attached to this AGREEMENT.

8. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes included but are not limited to: acts of God or a public enemy; acts of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

   If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

9. This certification is required by the Drug Free Workplace Act (30 ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the DEPARTMENT unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to suspension of contract on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

   For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an entity with twenty-five (25) or more employees at the time of issuing the grant or a department, division or other unit thereof, directly responsible for the specific performance under contract or grant of $5,000 or more from the DEPARTMENT, as defined the Act.

   The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

   (a) Publishing a statement:
      (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
      (2) Specifying actions that will be taken against employees for violations of such prohibition.
      (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
         (a) abide by the terms of the statement; and

(b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than (5) days after such conviction.

(b) Establishing a drug free awareness program to inform employees about:

(1) The dangers of drug abuse in the workplace;

(2) The grantee's or contractor's policy to maintain a drug free workplace;

(3) Any available drug counseling, rehabilitation and employee assistance program; and

(4) The penalties that may be imposed upon an employee for drug violations.

(c) Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.

(d) Notifying the contracting, or granting agency within ten (10) days after receiving notice under part (b) of paragraph (3) of subsection (a) above from an employee or otherwise, receiving actual notice of such conviction.

(e) Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program.

(f) Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER, LPA and the Department agree to meet the PROJECT SCHEDULE outlined in EXHIBIT B. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future projects. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).

11. For Preliminary Engineering Contracts:

(a) That tracing, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.

(b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

AGREEMENT SUMMARY

Prime Consultant (Firm) Name	TIN/FEIN/SS Number	Agreement Amount
Hutchison Engineering, Inc.	37-0960852	$322,092.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Millennia Professional Services	20-0886076	$97,716.00
	Subconsultant Total	$97,716.00
	Prime Consultant Total	$322,092.00
	Total for all work	$419,808.00

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The [Local Public Agency Type] of Marshall County (Local Public Agency)

By (Signature & Date): Queen Kenyon 4/13/23

By (Signature & Date): [signature] 4/13/23

Local Public Agency: Marshall County

Local Public Agency Type: Co. Clerk / Recorder Clerk

Title: Vice Chairman

(SEAL)

Executed by the ENGINEER:

Attest:

Prime Consultant (Firm) Name: Hutchison Engineering, Inc.

By (Signature & Date): Ryan M. Bradle 3/29/2023

Title: Director of Operations - Peoria Office

By (Signature & Date): [signature] 3/29/23

Title: Senior Vice President

APPROVED:

Regional Engineer, Department of Transportation (Signature & Date)

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Marshall County	Hutchison Engineering, Inc.	Marshall	99-00080-00-FP

EXHIBIT A
SCOPE OF SERVICES

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

See attached.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Marshall County	Hutchison Engineering, Inc.	Marshall	99-00080-00-FP

EXHIBIT B
PROJECT SCHEDULE

We anticipate Phase II engineering starting on April 17, 2023 and final PS&E submitted to IDOT on August 9, 2024 for the state letting on November 8, 2024.

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
Marshall County	Hutchison Engineering, Inc.	Marshall	99-00080-00-FP

Exhibit C
Qualification Based Selection (QBS) Checklist

The LPA must complete Exhibit D. If the value meets or will exceed the threshold in 50 ILCS 510, QBS requirements must be followed. Under the threshold, QBS requirements do not apply. The threshold is adjusted annually. If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

☐ Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	☐	☒
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	☐	☒
3	Was the scope of services for this project clearly defined?	☐	☒
4	Was public notice given for this project?	☐	☐
5	Do the written QBS policies and procedures cover conflicts of interest?	☐	☒
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	☐	☒
7	Do the written QBS policies and procedures discuss the methods of evaluation?	☐	☒

Project Criteria	Weighting
Technical Approach	25%
Firm Experience	25%
Specialized Experience	10%
Staff Capabilities	15%
Workload Capacity	10%
Past Performance	15%

8	Do the written QBS policies and procedures discuss the method of selection?	☐	☒

Selection committee (titles) for this project

County Engineer

	Top three consultants ranked for this project in order
1	Hutchison Engineering, Inc.
2	HLR
3	WHKS

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	☐	☒
10	Were negotiations for this project performed in accordance with federal requirements.	☐	☒
11	Were acceptable costs for this project verified?	☐	☒
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	☐	☒
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	☐	☒
14	QBS according to State requirements used?	☐	☒
15	Existing relationship used in lieu of QBS process?	☒	☐
16	LPA is a home rule community (Exempt from QBS).	☒	☐

EXHIBIT A - SCOPE OF SERVICES

CH 6 REALIGNMENT

SERVICES: Hutchison Engineering's scope of services (base services) will be limited to the following:

1.0 SCOPING

1.1 The Project Manager and Project Engineer will make an initial site visit.

1.2 The Project Manager and Project Engineer will attend a scoping meeting with the County.

2.0 DATA COLLECTION

2.1 Review PDR and discuss any issues with County staff.

2.2 Right-of-Way

2.2.1 Collect Property Owner Names & Addresses and include on plans.

2.2.2 Include ROW Information on Plan Sheets.

2.3 Geotechnical Analysis

2.3.1 Collect soil borings throughout the project limits. (Millennia Professional Services)

2.3.2 Review previously developed geotechnical report and develop new geotechnical report based on previous and current soil boring information. (Millennia Professional Services)

2.3.3 Analyze geotechnical report and incorporate findings into project design.

2.4 Field Survey

2.4.1 Pickup survey

3.0 UTILITY COORDINATION

3.1.1 Design JULIE to determine location of existing utilities.

3.1.2 Contacting Utility Companies to Request Plans.

3.1.3 Utilities on plan sheets.

3.1.4 Identify utility conflicts and coordinate relocations with utility companies.

4.0 ENVIRONMENTAL COORDINATION

4.1 Update Environmental Survey Request

4.2 Perform Bat Assessment

5.0 PLANS – Plans will be developed in standard IDOT format. The plans will include the following:

5.1 Cover Sheet

5.2 General Notes

5.3 Summary of Quantities

5.4 Schedules of Quantities

5.5 Existing & Proposed Typical Sections

5.6 Removal Plans

5.7 Plan & Profile sheets including guardrail runout length calculations (4 locations)

5.8 Drainage Plans including sizing of small culverts (5)

5.9 Horizontal & Vertical Control

5.10 Erosion Control Plans including design of ditch lining

5.11 Pavement Marking & Signing Plans

5.12 Cul-de-Sac Layout Plan

5.13 Culvert Plans

5.13.1 Prepare submittal to USACE for 404 permit renewal.

5.13.2 Culvert design for cast-in-place box culvert.

5.13.3 Develop Plan Details and Structure Plans for cast-in-place and precast box culverts.

5.14 Misc. Details including sideroads, entrances, etc.

5.15 Cross Sections (50' intervals) and at entrances, side roads, and cross-road culverts.

5.16 Highway Standards

5.17 District 4 Standards

6.0 **SPECIFICATIONS** – Specifications will be developed in standard IDOT format. The specifications will include the following:

6.1 Supplemental Specifications

6.2 Recurring Special Provisions

6.3 Project Specific Special Provisions including IDOT-District 4 Special Provisions.

6.4 Local Roads Special Provisions

6.5 BDE Special Provisions

6.6 Guide Bridge Special Provisions

7.0 **ESTIMATES** - Estimated 2 separate set of Bid Documents.

7.1 Estimate of Time

7.2 Estimate of Cost

EXHIBIT A - SCOPE OF SERVICES

CH 6 REALIGNMENT

8.0 QC/QA REVIEW

8.1 Perform QC/QA reviews at critical points of the process including typical sections, alignments, cross sections, utility conflicts, pre-final submittal, and final submittal.

9.0 JOBSITE CONTROL

9.1 Set control points.

9.2 Run benchmark Loop.

10.0 RIGHT-OF-WAY/EASEMENT ACQUISITION

10.1 Perform courthouse research.

10.2 Locate section corners in the field.

10.3 Draw and record monument records.

10.4 Set section corners.

10.5 Tie survey to existing roadway baseline.

10.6 Develop deed analysis.

10.7 Develop legal descriptions.

10.8 Perform ROW calculations.

10.9 Develop ROW/TE plats.

10.10 Assist County as needed with negotiations.

11.0 PRE-FINAL & FINAL PLAN. SPECIFICATION & ESTIMATE (PS&E) SUBMITTALS

11.1 Submit Pre-Final PS&E to County and IDOT for review.

11.2 Develop Disposition of Comments from review comments.

11.3 Revise PS&E as necessary.

11.4 Obtain County signatures.

11.5 Submit Final PS&E to IDOT for approval and signature.

12.0 BID ADMINISTRATION

12.1 Develop addendums as needed.

13.0 CONSTRUCTION SUPPORT

13.1 Review and approve shop drawings for cast-in-place box culvert.

13.2 Answer questions from Resident Engineer.

14.0 ADMINISTRATION

14.1 General project management including design project team meetings.

14.2 General firm project administration.

Illinois Department of Transportation

EXHIBIT D

COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
MARSHALL COUNTY	MARSHALL	99-00080-00-FP
Prime Consultant (Firm) Name	**Prepared By**	**Date**
	W. Shane Larson	3/21/2023
Consultant / Subconsultant Name	**Job Number**	

Note: This is name of the consultant the CECS is being completed for. This name appears at the top of each tab.

Remarks

PAYROLL ESCALATION TABLE

CONTRACT TERM	16	MONTHS	OVERHEAD RATE	172.43%
START DATE	4/17/2023		COMPLEXITY FACTOR	0
RAISE DATE	1/1/2024		% OF RAISE	2.00%
END DATE	8/16/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	4/17/2023	1/1/2024	9	56.25%
1	1/2/2024	8/1/2024	7	44.63%

The total escalation = 0.88%

Local Public Agency	County	Section Number
MARSHALL COUNTY	MARSHALL	99-00080-00-FP

Consultant / Subconsultant Name	Job Number

PAYROLL RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET FIXED RAISE

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	0.88%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	$86.00	$86.00
Project Manager	$77.94	$78.62
Engineer V	$68.75	$69.35
Engineer IV	$59.96	$60.48
Engineer III	$49.88	$50.32
Engineer II	$36.83	$37.15
Engineer I	$32.50	$32.78
Eng Tech VI	$60.63	$61.16
Eng Tech V	$53.35	$53.82
Eng Tech IV	$45.72	$46.12
Eng Tech III	$39.83	$40.18
Eng Tech II	$34.75	$35.05
Eng Tech I	$27.31	$27.55

Local Public Agency	County	Section Number
MARSHALL COUNTY	MARSHALL	99-00080-00-FP

Consultant / Subconsultant Name	Job Number

SUBCONSULTANTS

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

NAME	Direct Labor Total	Contribution to Prime Consultant
MILLENNIA PROFESSIONAL SERVICES	15,681.00	1,568.10
Total	**15,681.00**	**1,568.10**

NOTE: Only subconsultants who fill out a cost estimate that splits out direct labor may be listed on this sheet.

Local Public Agency
MARSHALL COUNTY

County
MARSHALL

Section Number
99-00080-00-FP

Consultant / Subconsultant Name

Job Number

DIRECT COSTS WORKSHEET

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

ITEM	ALLOWABLE	QUANTITY	CONTRACT RATE	TOTAL
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost (Up to state rate maximum)			$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	1520	$0.66	$995.60
Vehicle Owned or Leased	$32.50/half day (4 hours or less) or $65/full day			$0.00
Vehicle Rental	Actual Cost (Up to $55/day)			$0.00
Tolls	Actual Cost			$0.00
Parking	Actual Cost			$0.00
Overtime	Premium portion (Submit supporting documentation)	350	$20.00	$7,000.00
Shift Differential	Actual Cost (Based on firm's policy)			$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)	1	$50.00	$50.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)	1	$100.00	$100.00
Project Specific Insurance	Actual Cost			$0.00
Monuments (Permanent)	Actual Cost			$0.00
Photo Processing	Actual Cost			$0.00
2-Way Radio (Survey or Phase III Only)	Actual Cost			$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual Cost			$0.00
CADD	Actual Cost (Max $15/hour)	925	$15.00	$13,875.00
Web Site	Actual Cost (Submit supporting documentation)			$0.00
Advertisements	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Facility Rental	Actual Cost (Submit supporting documentation)			$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual Cost (Submit supporting documentation)			$0.00
Recording Fees	Actual Cost			$0.00
Transcriptions (specific to project)	Actual Cost			$0.00
Courthouse Fees	Actual Cost			$0.00
Storm Sewer Cleaning and Televising	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Traffic Control and Protection	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Utliity Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
Testing of Soil Samples	Actual Cost			$0.00
Lab Services	Actual Cost (Provide breakdown of each cost)			$0.00
Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			$0.00
				$0.00
Survey Robot		8	$100.00	$800.00
Survey GPS Unit		8	$200.00	$1,600.00
				$0.00
			TOTAL DIRECT COSTS:	**$24,420.60**

Local Public Agency
MARSHALL COUNTY

County
MARSHALL

Section Number
99-00080-00-FP

Consultant / Subconsultant Name

Job Number

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE 172.43%

COMPLEXITY FACTOR 0

TASK	DIRECT COSTS (not included in row totals)	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Phase I & II Engineering		1868	93,262	160,812	30,777		284,851	67.85%
Administration		56	3,684	6,352	1,216		11,252	2.68%
			-	-	-		-	
Geotech Field Work & Report			-	-	-	97,716	97,716	23.28%
			-	-	-		-	
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Subconsultant DL							$1,568.10	0.37%
Direct Costs Total ===>	$0.00						$24,420.60	5.82%
TOTALS		1924	96,946	167,164	31,993	97,716	419,808	100.00%
			264,110					

Local Public Agency
MARSHALL COUNTY

County
MARSHALL

Section Number
99-00080-00-FP

Consultant / Subconsultant Name

Job Number

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Phase I & II Engineering			Administration						Geotech Field Work & Report					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	86.00	16.0	0.83%	0.72				16	28.57%	24.57									
Project Manager	78.62	180.0	9.36%	7.36	164	8.78%	6.90	16	28.57%	22.46									
Engineer V	69.35	0.0																	
Engineer IV	60.48	83.0	4.31%	2.61	83	4.44%	2.69												
Engineer III	50.32	347.0	18.04%	9.07	347	18.58%	9.35												
Engineer II	37.15	158.0	8.21%	3.05	158	8.46%	3.14												
Engineer I	32.78	290.0	15.07%	4.94	290	15.52%	5.09												
Eng Tech VI	61.16	143.0	7.43%	4.55	135	7.23%	4.42	8	14.29%	8.74									
Eng Tech V	53.82	537.0	27.91%	15.02	537	28.75%	15.47												
Eng Tech IV	46.12	4.0	0.21%	0.10	4	0.21%	0.10												
Eng Tech III	40.18	56.0	2.91%	1.17	56	3.00%	1.20												
Eng Tech II	35.05	60.0	3.12%	1.09	44	2.36%	0.83	16	28.57%	10.02									
Eng Tech I	27.55	50.0	2.60%	0.72	50	2.68%	0.74												
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TOTALS		1924.0	100%	$50.39	1868.0	100.00%	$49.93	56.0	100%	$65.79	0.0	0%	$0.00	0.0	0%	$0.00	0.0	0%	$0.00

MILLENNIA
PROFESSIONAL SERVICES

Millennia Professional Services

11 Executive Drive, Suite 12, Fairview Heights, Illinois 62208 618-624-8610

March 22, 2023
Proposal No. 230313

W. Shane Larson, PE
Hutchison Engineering, Inc.
2015 W. Glen Ave., Ste. 210
Peoria, Illinois 61614

Subject: Proposal for Geotechnical Services
Western Avenue (CH-6) Realignment
Marshall County, Illinois

Dear Mr. Larson:

Introduction

Millennia Professional Services of Illinois, Ltd. (Millennia) is pleased to submit this proposal to Hutchison Engineering, Inc. (HEI) to perform geotechnical studies for use in the design and construction of the proposed Western Avenue realignment project in Marshall County, Illinois. Our understanding of the project is based on information provided by your office, along with our experience with similar projects and geologic settings. Millennia is a certified MBE/DBE firm, prequalified by IDOT and other agencies.

Project Description

The project consists of the realignment of County Highway 6 (CH-6/Western Avenue) in Marshall County, Illinois. The alignment will begin approximately 2.5 miles west of intersection of CH-6 and IL-29, then proceed towards the west for about one mile before merging back into the existing CH-6 alignment.

Millennia understands the project will be designed using IDOT guidelines. A culvert is planned to be constructed at the western end of the alignment. For the purposes of this proposal, we have assumed fills for the new culvert will not exceed 2 feet.

The terrain varies widely in elevation throughout the proposed realignment. Several deep cuts are planned, with magnitudes ranging from about 15 to 50 feet. Fills will vary from a few feet to about 50 feet.

Previous Studies

Millennia understands that Wang Engineering performed a geotechnical study and provided recommendations for the deeper cut areas near Stations 47+00, 53+00, and 63+00 within a letter report dated July 20, 2020. As such, Millennia will not include effort to address those areas within this study.

Millennia intends to utilize soil information from the previously performed study by Wang and incorporate that information into the geotechnical report for the current study.

Purpose

The purpose of the geotechnical study will be to obtain information concerning subsurface conditions at the site to form conclusions and make engineering recommendations for the following geotechnical considerations:

- A general geologic reconnaissance of the site to observe for geotechnical conditions that might affect the design, construction, and performance of the structures.
- Bearing capacity, settlement and lateral earth pressure assessments for the culvert structure.
- The location and description of any potentially deleterious materials encountered at the boring locations that may interfere with construction progress or structure performance.
- The potential impact of groundwater on the design and construction.
- Recommendations for any potential undercuts beneath the culvert footprint.
- Estimated magnitude and time rate of settlement for new embankment fills.
- General global stability considerations for the fill embankments and the previously unaddressed cut section near Station 66+00. Millennia plans to perform global stability analyses at the following locations:
    - Station 42+00
    - Station 48+00
    - Station 58+00
    - Station 66+00
    - Station 72+00
- The suitability of the on-site materials for use as fill and backfill, including engineering criteria for the placement of those materials.
- Recommended observation, documentation and materials testing programs during construction of the structure.

Exploration

Millennia in conjunction with HEI proposes an exploration program consisting of nine (9) borings. Two borings will be drilled at the proposed culvert and each will be drilled to a planned depth of 35 feet, or auger refusal, whichever occurs first. Five borings will each be drilled to a depth of 50 feet, one boring will be drilled to a depth of 30 feet, and one boring will be drilled to a depth of 40 feet. Split-spoon and Shelby tube samples will be recovered at the boring locations at intervals of 2.5 feet to 30 feet, then 5 feet intervals thereafter. Hand penetrometer and Rimac unconfined compressive strength measurements will be taken on each cohesive sample in the field, and observations for the presence of groundwater will be documented for each boring location. The depth and sampling intervals at the borings will be in general

accordance with IDOT geotechnical criteria. The borings will be drilled with an all-terrain mounted drill rig.

The proposed locations of the borings along the planned alignment are summarized in the table below:

Boring Designation	Approximate Station	Cut/Fill Magnitude (ft.)	Proposed Depth (ft.)
Culvert-1	35+75	Fill – 5	35
Culvert-2	36+25	Fill - 5	35
F-1	42+50	Fill – 10	30
F-2	48+25	Fill - 20	50
F-3	57+00	Fill - 20-45	50
F-4	59+50	Fill - 20-45	50
C-1	66+50	Cut - 15	40
F-5	70+75	Fill – 30	50
F-6	73+25	Fill – 20	50

Laboratory Testing

A program of laboratory testing will be performed on the samples collected from the borings. Laboratory tests will include visual classification, natural moisture content, and, if applicable, Atterberg limits and one-dimensional consolidation testing (4 tests). Rimac unconfined compressive strength testing will be performed on recovered, cohesive samples.

Assumptions and Clarifications

In preparing the scope of work or this proposal, Millennia has made the following assumptions and clarifications:

1. The boring locations will be staked as near to the proposed structures as reasonable, in consideration of overhead lines and other access issues. The borings will be marked by measuring from existing features, and will be approximate.
2. Millennia drilling subcontractor will contact J.U.L.I.E. for utility clearance at the boring locations. Private utilities, such as underground sprinkler systems, agricultural field drain tiles, buried electric lines serving roadways, must be marked by the property owners. Millennia will adjust the boring locations as appropriate, but we are not responsible for utilities that are uncharted or mislocated.
3. Millennia assumes that Marshall County Highway Department will negotiate the drill rig access with the various property owners along the proposed alignment.
4. We have assumed that the borings can be accessed without the need to clear trees, cutting or mending fences, or other obstructions, or to cross field ditches or creeks that might require a temporary culvert crossing. If during the course of the field exploration such obstructions or access constraints are encountered, Millennia assumes the Marshall County Highway Department will provide the necessary access to the boring locations.
5. Millennia will take reasonable precautions to minimize damage to the work areas. The borings will be backfilled with drilling spoils, with any excess materials mounded over the hole. Settlement of the ground surface at the boring location during the weeks following

drilling is possible, which could result in a depression at the ground surface. Borings drilled within the pavement will be backfilled with drilling spoils and the bore hole will be patched with either fast setting concrete, or asphalt.

6. Millennia has included prevailing wages within the drilling estimate.

Fees

Millennia's work will be performed on a cost-plus fixed fee basis. Based on our understanding of the project and the requested scope of work, and assuming no unusual subsurface conditions are encountered, the total fee to complete the work will not exceed the following amount:

Geotechnical Study: $97,716

The maximum estimated fees will not be exceeded without authorization by HEI.

Schedule of Work

Millennia anticipates that field work can begin within four weeks of authorization to proceed, depending on drill rig availability and weather conditions. We anticipate that drilling and sampling will require no more than eight days to complete. The geotechnical report of our findings will be issued within five weeks after the completion of the field work.

Closing

We will perform only those services outlined herein. Hutchison Engineering, Inc. and Millennia may subsequently agree in writing to provide additional services under this agreement for additional compensation. If this proposal is acceptable to you, please sign in the space provided and return one copy to us. We appreciate this opportunity to be of service to you and would be pleased to discuss any aspect of this report with you at your convenience

Sincerely,

Millennia Professional Services, Ltd.

Jacob A. Schaeffer, P.E.
Manager, Geotechnical Services

Attachments: Geotechnical Study Estimate with Direct Costs

Illinois Department of Transportation

EXHIBIT E

COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

FIXED RAISE

Local Public Agency	County	Section Number
Marshall County Highway Department	Marshall	99-00080-00-FP
Consultant (Firm) Name	**Prepared By**	**Date**
Millennia Professional Services	J. Schaeffer	3/22/2023

PAYROLL ESCALATION TABLE

CONTRACT TERM	12	MONTHS	OVERHEAD RATE	139.77%
START DATE	5/1/2023		COMPLEXITY FACTOR	
RAISE DATE	2/1/2024		% OF RAISE	2.00%
END DATE	4/30/2024			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	5/1/2023	2/1/2024	9	75.00%
1	2/2/2024	5/1/2024	3	25.50%

The total escalation = 0.50%

BLR 05514 (Rev. 04/30/21)
Payroll Escalation

Local Public Agency	County	Section Number
Marshall County Highway Depa	Marshall	99-00080-00-FP

MAXIMUM PAYROLL RATE 78.00

ESCALATION FACTOR 0.50%

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Senior Project Manager	$75.57	$75.95
Project Manager	$53.45	$53.72
Engineer II	$35.50	$35.68
Technician II	$25.60	$25.73
Administrator	$35.81	$35.99
Geologist II	$33.20	$33.37

Local Public Agency
Marshall County Highway Department

County
Marshall

Section Number
99-00080-00-FP

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

OVERHEAD RATE 139.77%

COMPLEXITY FACTOR 0

TASK	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	DIRECT COSTS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAN TOTAL
Planning, Project Setup	10	509	712		168		1,389	1.42
Field Exploration	127	4,940	6,905	2,047	1,630		15,522	15.88
Lab Testing	118	3,132	4,377	3,200	1,033		11,742	12.02
Engineering Analysis	77	4,525	6,325		1,493		12,343	12.63
Reporting	24	1,467	2,051		484		4,002	4.10
QA/QC	8	608	849		201		1,658	1.70
Drilling (Subconsultant)		-	-	49,696	-		49,696	50.86
Traffic Control (Subconsultant)		-	-		-		-	0.00
Administration	2	72	101		24		197	0.20
Surveying	12	428	598		141		1,167	1.19
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Subconsultant DL					0		-	
TOTALS	378	15,681	21,918	54,943	5,174	-	97,716	100.00

37,599

BLR 05514 (Rev. 04/3
Cost Estimate Work

Local Public Agency
Marshall County Highway Department

County
Marshall

Section Number
99-00080-00-FP

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultants Services Worksheet Fixed Raise

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Planning, Project Setup			Field Exploration			Lab Testing			Engineering Analysis			Reporting		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	W
Senior Project Manager	75.95	45.0	11.90%	9.04	2	20.00%	15.19	3	2.36%	1.79				24	31.17%	23.67	8	33.33%	2
Project Manager	53.72	83.0	21.96%	11.80	4	40.00%	21.49	16	12.60%	6.77	2	1.69%	0.91	45	58.44%	31.39	16	66.67%	3
Engineer II	35.68	136.0	35.98%	12.84	4	40.00%	14.27	108	85.04%	30.34	4	3.39%	1.21	8	10.39%	3.71			
Technician II	25.73	112.0	29.63%	7.62							112	94.92%	24.42						
Administrator	35.99	2.0	0.53%	0.19															
Geologist II	33.37	0.0																	
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TOTALS		378.0	100%	$41.49	10.0	100.00%	$50.95	127.0	100%	$38.90	118.0	100%	$26.54	77.0	100%	$58.77	24.0	100%	$6

Local Public Agency
Marshall County Highway Department

County
Marshall

Section Number
99-00080-00-FP

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	QA/QC			Drilling (Subconsultant)			Traffic Control (Subconsultant)			Administration			Surveying					
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	W A
Senior Project Manager	75.95	8	100.00%	75.95															
Project Manager	53.72																		
Engineer II	35.68													12	100.00%	35.68			
Technician II	25.73																		
Administrator	35.99										2	100.00%	35.99						
Geologist II	33.37																		
TOTALS		8.0	100%	$75.95	0.0	0%	$0.00	0.0	0%	$0.00	2.0	100%	$35.99	12.0	100%	$35.68	0.0	0%	$0

Direct Costs - Millennia Professional Services

Field Investigation

Per Diem Lodging	8 @	$105.00	$840.00
Per Diem Food	8 @	$28.00	$224.00
Mileage	1560 @	$0.630	$982.80
		Subtotal:	$2,046.80

Bulldog Drilling
Environmental and Geotechnical Drilling Services

Job Number 2023-4231
Client Millennia Professional Services
Project Name Geotech Drilling - Western Ave Realignment
Location Henry, IL

Date: 3/20/2023
Bulldog Drilling PM: Craig Maxeiner
(618) 286-3800
Client Contact: Jacob A. Schaeffer, PE
Phone: (618) 624-8610
Cell: (314) 560-9154

Estimated Days On Site 5
SCOPE: 5 BH's to 50ft; 1 BH to 40ft; 1 BH to 30ft; 2 BH's to 35ft
SPT and ST Sampling

		UOM	Estimated Units	Price /Unit	Amount
Drill Rig Unit Rates					
Mobilization/Demobilization - Beyond 60 Miles R.T. From Dupo IL		HOUR	13	$360.00	$4,680.00
Local Travel		HOUR	8	$360.00	$2,880.00
Personnel Travel (Round Trip From and Return to Jobsite)	*If Required*	HOUR		$360.00	
Per Diem, Each Man/Day		MAN/DAY	8	$220.00	$1,760.00
Call In Utility Locate		EACH	3	$45.00	$135.00
Overtime Surcharge		HOUR	24	$105.00	$2,520.00
Weekend Surcharge	*If Required*	HOUR		$160.00	
2" Centrifugal Trash Pump		DAY	5	$55.00	$275.00
SkidSteer Loader - Delivery / Return		LS	1	$3,000.00	$3,000.00
SkidSteer Loader - Track Unit		DAY	5	$550.00	$2,750.00
Water Tank		DAY	5	$25.00	$125.00
Mobilization of Marooka	*If Required*	HOUR		$400.00	
Marooka Rubber Track Support Vehicle + Fuel	*If Required*	DAY		$600.00	
Site Access		HOUR	16	$281.00	$4,496.00
Haul Water		HOUR	9	$281.00	$2,529.00
Hollow Stem Augering, up to 4-1/4" (0' - 50')		L. F.	135	$14.40	$1,944.00
Hard Drilling w/4-1/4" HSA (Broken Concrete, Rock, Shale, Rubble, Etc.)		L. F.		$26.50	
Set-up to Mud Rotary		EACH	9	$210.00	$1,890.00
Mud Rotary Drilling (0'-50') - Unconsolidated (4" Diameter) + Bentonite		L. F.	255	$20.50	$5,227.50
Mud Rotary Drilling - Bedrock (4" Diameter) (0'-50')		L. F.		$42.50	
Split-Spoon Sampling (0' to 50')		EACH	114	$15.75	$1,795.50
3" Shelby Tube (0' - 50')		EACH	18	$41.25	$742.50
Set-up to Rock Core < 50 ft		EACH		$210.00	
NQ Rock Coring (Includes Waxed Core Boxes)		L. F.		$72.75	
Granular Bentonite		BAG	5	$18.75	$93.75
Super Mud		PAIL		$300.00	
Super Gel-X		BAG	8	$20.50	$164.00
Prevailing Wage Rates Differential - In Addition to Footage Rates					
Marshall CO IL - 03/2023					
Operator Regular Time		HOUR	32	$103.11	$3,299.52
Operator Overtime		HOUR	16	$131.87	$2,109.92
Truck Driver Class 3- Regular Time (Operator)		HOUR	8	$68.81	$550.48
Truck Driver Class 3- Overtime (Operator)		HOUR	8	$91.60	$732.80
Labor Regular Time		HOUR	32	$82.81	$2,649.92
Labor Overtime		HOUR	16	$108.76	$1,740.16
Truck Driver Class 1- Regular Time (Laborer)		HOUR	8	$85.42	$683.36
Truck Driver Class 1- Overtime (Laborer)		HOUR	8	$115.28	$922.24
		TOTAL ESTIMATE			**$49,695.65**

Above rates do not include provisions for prevailing wage or union wage rates. If a union or wage determination issue arises on the project, client will be notified immediately. At the time of invoicing, the most current wage rates will apply.

Estimate valid for 30 Days
Material Pricing valid for 24 hours and will be updated at start of project to current pricing.

Payment Terms - MSA Contract Payment Terms or Net 30 days from Invoice Date.

GEOTECHNOLOGY

A Universal Engineering Sciences Company

January 26, 2023

J022300

2023 LABORATORY TESTING RATES

Laboratory Test:	Unit Rate	
• Shelby Tube Log, Including tube extrusion, visual, moisture content and unit weight	$48.00 Tube	
• Water Content of Soil, ASTM D2216	$8.00 Each	
• Dry Unit Weight, ASTM D7263	$38.50 Each	
• Atterberg Limits, Method A (Multi-Point), ASTM D4318	$116.00 Each	
• Atterberg Limits, Method B (One-Point), ASTM D4318	$78.00 Each	
• Percent Passing No. 200, ASTM D1170	$67.00 Each	
• Particle-Size Analysis of Soils, ASTM D7928 • Hydrometer and No. 200 Wash	$135.00 Each	
• Particle-Size Analysis of Soils, ASTM D7928/D6913 • Combined Hydrometer and Sieve	$210.00 Each	
• Washed Gradation on Aggregate, ASTM C117/C136	$180.00 Per Sample	
• Standard Proctor on Soil, ASTM D698	$325.00 Each	
• Standard Proctor on Rock, ASTM D698	$385.00 Each	
• Modified Proctor on Soil, ASTM D1557	$340.00 Each	
• Modified Proctor on Rock, ASTM D1557	$410.00 Each	
• Lime/Other Additive Prior to Testing	$55.00 Per Sample	
• Correction for Oversized Particles, ASTM D4718	$206.00 Each	
• Hydraulic Conductivity of Soil, ASTM D5084	$310.00 Each	
• Permeability of Sand, ASTM D2434	$275.00 Each	
• Unconfined Compression of Soil, ASTM D2166	$97.00 Each	
• Triaxial Compression of Soil, UU, ASTM D2850	$140.00 Each	- x8 = $1,120
• Triaxial Compression of Soil, CU, ASTM D4767	$365.00 Each	
• Triaxial Compression Multi-Stage, Per Addition	$150.00 Each	
• Consolidation Test, Standard Loading, ASTM D2435	$440.00 Each	
• Consolidation Test, with Unload/Reload Loop, ASTM D2435	$520.00 Each	- x4 = $2,08
• One-Dimensional Swell, Method C, ASTM D4546	$330.00 Each	
• Reconstitution of Material for Any of the Above Tests	$80.00 Per Specimen	
• Compression of Rock, Peak Strength, ASTM D7012	$80.00 Each	
• Preparation of Rock Core	$73.00 Each	
• Concrete Core Compression, ASTM C42	$82.50 Each	
• Trim Irregular Cylinder/Core End	$24.00 Per End	

We understand that the client will deliver the samples to our laboratory. Laboratory testing services are conducted in general accordance with the referenced standard unless requested otherwise. Upon completion of testing, all material and debris remaining as a result of testing any impacted material will be picked up from our laboratory by the client for proper disposal. Additional fees, if any, for long term sample storage, impacted material, rushed turnaround, or non-standard reporting will be determined on a project-by-project basis.