



Local Public Agency Engineering Services Agreement

Using Federal Funds? Yes No

Agreement For: Agreement Type:

LOCAL PUBLIC AGENCY

Local Public Agency	County	Section Number	Job Number
County of McHenry	McHenry	21-00532-00-BR	D-91-014-22
Project Number	Contact Name	Phone Number	Email
BVIM(733)	Joyce J. DeLong	(815) 334-4980	jjdelong@mchenrycountyil.gov

SECTION PROVISIONS

Local Street/Road Name	Key Route	Length	Structure Number
Paulsen Road	TR 114	0.01	056-3071
Location Termini			<input type="button" value="Add Location"/>
Over North Branch Kishwaukee River			<input type="button" value="Remove Location"/>

Project Description

Phase II engineering to prepare contract plans and documents for the replacement of the Paulsen Road Bridge over North Branch Kishwaukee River and reconstruction of the roadway approaches

Engineering Funding Federal MFT/TBP State Other

Anticipated Construction Funding Federal MFT/TBP State Other

AGREEMENT FOR

Phase I - Preliminary Engineering Phase II - Design Engineering

CONSULTANT

Prime Consultant (Firm) Name	Contact Name	Phone Number	Email
BLA, Inc.	Matthew Cesario	(630) 438-6400	mcesario@bla-inc.com
Address	City	State	Zip Code
333 Pierce Road, Suite 200	Itasca	IL	60143

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 Contractor: A full time LPA employee authorized to administer inherently governmental PROJECT activities 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 (CESCS) Worksheet (BLR 05513 or BLR 05514)
- Exhibit E: Subconsultant CECS
- Exhibit F: Workhour Summary
- _____

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 for Preliminary and/or Design Engineering: 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. To submit a completed BLR 05613, Engineering Payment Report, to the DEPARTMENT within three months of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement. The form shall be submitted with the final invoice.
8. 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 United States 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.
9. 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.
10. 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 affix 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).
11. 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 following:
 - (a) Professional Services Selection Act (50 ILCS 510), The Brooks Act (40 USC 11), and the Procurement, Management, and Administration of Engineering, and Design Related Services (23 CFR part 172). Exhibit C is required to be completed with this AGREEMENT.
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.
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:

- Lump Sum
 Specific Rate
 Cost plus Fixed Fee:

Anniversary

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 origin 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. No work shall be commenced by the ENGINEER prior to issuance by the IDOT of a written Notice to Proceed.
2. 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 purposed disbursement.
3. 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 save harmless the LPA, the DEPARTMENT, and their officers, agents, and employees from all suits, claims, actions or damage 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.
4. 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 material 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.
5. 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 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.

6. 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.
7. 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.
8. 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 e and
 - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State or local) terminated for cause or default.

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

9. 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 include but are not limited to: acts of God or a public enemy; act 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.

10. 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 statue conviction for a violation occurring int he 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 of 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 project. 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.

- 11. 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.).
- 12. 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
BLA, Inc.	36-4263432	\$437,489.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
Jorgensen & Associates, Inc	36-3668574	\$31,600.00
Wang Engineering	36-3191909	\$23,183.00
Subconsultant Total		\$54,783.00
Prime Consultant Total		\$437,489.00
Total for all work		\$492,272.00

AGREEMENT SIGNATURES

Executed by the LPA:

The

Local Public Agency Type
County

 of

Local Public Agency
County of McHenry

Attest:

By (Signature & Date)

--

By (Signature & Date)

--

Name of Local Public Agency

County of McHenry

Local Public Agency Type

County

Clerk

Title

County Board Chairman

(SEAL)

Executed by the ENGINEER:

Prime Consultant (Firm) Name

BLA, Inc.

Attest:

By (Signature & Date)

--

By (Signature & Date)

--

Title

--

Title

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Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
County of McHenry	BLA, Inc.	McHenry	21-00532-00-BR

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

**EXHIBIT A
SCOPE OF SERVICES**

FOR FEDERAL PARTICIPATION PROJECTS

See attached Exhibit A



Exhibit A

Scope of Services

CONSULTING
ENGINEERS



BLA, Inc.

333 Pierce Road, Suite 200 • Itasca, IL 60143
630 438 6400 • FAX 630 438 6444 • www.bla-inc.com

Route	Paulsen Road (TR 114)
Local Agency	County of McHenry
Section	21-00532-00-BR
Job No.	D-91-014-22
Project No.	BVIM(733)
Type of Funding	LBFP

**PHASE II ENGINEERING FOR THE REPLACEMENT OF THE
PAULSEN ROAD BRIDGE OVER NORTH BRANCH KISHWAUKEE RIVER
PROPOSED S.N. 056-9071**

McHENRY COUNTY DIVISION OF TRANSPORTATION

EXHIBIT A - SCOPE OF SERVICES

The McHenry County Division of Transportation, hereafter referred to as Local Public Agency (**LPA**), has initiated a project requiring professional engineering services by BLA, Inc. (**ENGINEER**) for Phase II - Design Engineering of the subject project.

UNDERSTANDING OF THE PROJECT

Project Scope and Limits. The scope of services is based on the approved Project Development Report (PDR) which includes the removal and replacement of the existing bridge and associated roadway approach work. The proposed structure is a single span PCC beam bridge with 36" PPC IL Beams and an 8" deck . The improvement limits are Station 1+75.00 to Station 9+75.00 (800 feet).

Schedule. Phase II design is anticipated to begin in April 2025 and be completed for submission to the Illinois Department of Transportation (**DEPARTMENT**) to be eligible for the November 6, 2026 letting. This project has a date commitment that trees three (3) inches or greater in diameter at breast height shall not be cleared from April 1st through September 30th of any given year.

Submittals. All project submittals shall be submitted to the **LPA** for review and comment prior to being submitted to the **DEPARTMENT** and other agencies. The **LPA** may elect to perform concurrent reviews for pre-final and final submittals if previous comments are addressed to **LPA's** satisfaction. An electronic copy of all deliverables shall be provided to the **LPA**. The **ENGINEER** shall copy the **LPA** on all submittals to the **DEPARTMENT** and other agencies

Collaboration. Microsoft Teams should be the primary means of electronic communication with the **LPA**. The **LPA** will host the team and setup various channels to organize project discussions. The **LPA** will provide the **ENGINEER** a file transfer location on Bentley ProjectWise to exchange data.

Correspondence. The **ENGINEER** shall maintain for a minimum of three (3) years after acceptance of Affidavit of Completion and the last action on the contract all project correspondence to the **LPA** and other outside agencies.

Subconsultants. The following subconsultants are anticipated to be used for the following services:

- Jorgensen & Associates, Inc,
 - Task 2: Supplemental Survey and Right-of-Way
 - Horizontal and Vertical Control
 - Topographic Survey
 - Right of Way
 - Plat Resolution
 - Task 11: Permitting and Environmental Coordination
 - McHenry County Stormwater Management Permit Certification-AsBuilt
- Wang Engineering, Inc:
 - Task 4: Preliminary Site Investigation
 - Geotechnical Subsurface Investigation
 - LPC 662 or 663 Forms
 - Task 13: Supplemental Geotechnical Studies

Summary. The *Scope of Services* for Phase II engineering involves the preparation of contract plans and documents to be let for construction by the **DEPARTMENT**. Included in this scope are the following tasks:

- Early Coordination and Data Review
- Supplemental Surveys and Right-of-Way
- Utility Coordination
- Preliminary Site Investigation
- Roadway Plans
- Structural Plans
- Quantity Calculations
- Specifications and Special Provisions
- Construction Estimate of Cost and Estimate of Time
- PS&E Submittals
- Permitting and Environmental Coordination
- Phase III Activities
- Supplemental Geotechnical Studies
- Meetings and Coordination
- Project Administration and Management
- Quality Assurance/Quality Control

TASK 1 – EARLY COORDINATION AND DATA REVIEW

Review Existing Data. The following Phase I documents and existing data will be reviewed:

- Project Development Report and associated technical reports
- Utility atlases and base drawings
- Special Waste Assessment
- Existing roadway and structural plans
- Additional information acquired post-Phase I through coordination with stakeholders

Site Visit. A detailed field check of the Phase I drawings will be performed with **LPA's** project manager to verify existing conditions.

TASK 2 - SUPPLEMENTAL SURVEYS AND RIGHT-OF-WAY

Horizontal and Vertical Control. Re-establish vertical and horizontal control points for supplemental surveys and for reference on Alignment, Ties and Benchmark sheet.

Topographic Survey

- A limited topographic survey will be required to assess if site conditions have changed from those identified in the PDR and to create a revised existing condition drawing and a Digital Terrain Model (DTM) for use in preparing cross sections and evaluating compensatory storage volumes.
- The supplemental survey data will be downloaded and reviewed for completeness.
- The existing conditions base drawings and digital terrain model will be revised.

Right-of-Way. Stake right-of-way per approved plats after construction. Existing right-of-way may need to be re-established in areas where there are temporary easements and no proposed right-of-way.

Plat of Resolution. Edit Plat of Highways to include Parent PINs with a single cross through, and add the Child PIN replacements provided by the **LPA** Assessments Office.

TASK 3 - UTILITY COORDINATION

Conflict Identification. Prepare an exhibit showing the location of potential conflicts (based on best available information provided by local agencies and utility companies during Phase I), plot existing utilities in cross sections, summarize in a spreadsheet, prepare a photo log of the utilities, and submit with a **LPA** template cover letter to utility companies.

Relocation Assistance. Coordinate with local agencies and utility companies to ensure resolution of conflicts through project completion. Review utility relocation plans and permits for compatibility with proposed improvement. Show proposed utilities on plans and cross sections. Preliminary, pre-final, and final plans will be sent to the utility companies.

TASK 4 – PRELIMINARY SITE INVESTIGATION

A Preliminary Site Investigation (PSI) is not required based on the findings of the Special Waste Assessment as part of the Phase I study.

LPC 662 or 663 Forms. Special Waste Screening results will be used to identify locations for soil sampling related to preparation of the LPC 662 or 663 forms. The results of the testing will be documented in the LPC 662 or 663 forms.

TASK 5 - ROADWAY PLANS

The roadway plans will be developed and included in the submittals outlined in Task 10. The roadway plans will be prepared under the supervision of a Professional Engineer and will consist of the following drawings. See workhour summary for additional information.

- Cover Sheet
- Index of Sheets, Highway Standards and Commitments
- General Notes
- Summary of Quantities
- Schedule of Quantities
- Typical Sections
- Alignment, Ties and Benchmarks
- Removal Plan
- Plan & Profile
- Drainage and Utility Plan and Profile
- Detour Plan and Notes
- Stormwater Pollution Prevention Plan and Notes
- Soil Erosion and Sediment Control Plan and Details
- In-Stream Guideline Details
- Grading Plan – Bridge and Channel
- Plat of Highways
- Pavement Marking and Signing Plans
- Landscaping Plan
- Structural Sheets (See Task 6)
- Detail Sheets
- District One Details
- Cross Sections

Pavement Design. Develop a pavement design for full-depth HMA pavement in accordance with **DEPARTMENT**/BLRS procedures.

Compensatory Storage Design. Perform drainage and compensatory storage calculations to satisfy the McHenry County Stormwater Management Ordinance requirements.

Transportation Management Plan. Complete **DEPARTMENT** form D1 OP0042 and attachments.

TASK 6 – STRUCTURAL PLANS

The structural plans will be developed and included in the submittals outlined in Task 10. The structural plans will be prepared by, or under the supervision of, an Illinois Licensed Structural Engineer and will consist of the following drawings. See workhour summary for additional information.

- General Plan and Elevation
- General Data
- Top of Deck Elevations
- Top of Approach Slab Elevations
- Superstructure Details
- Abutment Diaphragm Details
- Railing Details
- Bridge Approach Slab Details
- Framing Plan
- IL36N Beam Details
- Abutment Details
- Pile Details
- Pipe Drain Details
- Soil Borings
- Existing Plans

Load Rating Analysis. Load rating submittals will be made to the **DEPARTMENT** at the completion of design, and again before opening the structure according to **DEPARTMENT** Circular Letter 2017-16 and Structural Services Manual Section 4.2.2.

TASK 7 - QUANTITY CALCULATIONS

Quantity calculations will be prepared and included in the submittals outlined in Task 10. Calculations shall be independently reviewed and understandable. The computed quantities will serve as the basis for the Summary of Quantities plan sheets and the **ENGINEER'S** Estimate of Cost.

- Earthwork computations, pavement computations and other quantity calculations will conform to the requirements of Section 11-5 of the *BLRS Manual* and *Chapter 64* of the **DEPARTMENT Bureau of Design and Environment (BDE) Manual**.
- The *Standard Specifications for Road and Bridge Construction, Supplemental Specifications* and the *Recurring Special Provisions* will be cross checked to ensure that the appropriate pay items, methods of measurement and basis of payment are used. For each quantity, the IDOT coded pay item number will be used. These coded pay items will be determined from the *IDOT Coded Pay Items* on the **DEPARTMENT** website.

TASK 8 - SPECIFICATIONS AND SPECIAL PROVISIONS

The specifications and special provisions will be developed and included in the submittals outlined in Task 10.

- The *IDOT Standard Specifications* and *Supplemental Specifications* are included by reference in the first paragraph of the project Special Provisions. Applicable *IDOT Recurring Special Provisions*, *Recurring Local Roads and Streets Special Provisions*, and *Guide Bridge Special Provisions* will be included by reference by use of **DEPARTMENT** check sheets.
- Where a project item contains work, material, unique sequence of operations or any other requirements that are not included in the *Standard Specifications*, *Supplemental Specifications*, *Recurring Special Provisions*, *BDE Special Provisions*, *Guide Bridge Special Provisions* or *MCDOT Special Provisions*, a project specific Special Provision will be written. These Special Provisions will conform to the requirements of Section 11-3 of the *BLRS Manual* and *Chapter 66* of the *BDE Manual*.

TASK 9 - CONSTRUCTION ESTIMATE OF COST AND ESTIMATE OF TIME

Estimate of Cost. Utilizing the pay items and quantities, the Estimate of Cost will be generated. Itemized costs will be determined using available guides and bid tabulations from similar projects. In addition, the pay item reports with awarded prices from the **DEPARTMENT's** website will be used to approximate current unit costs. BDE Form 213 will be used to prepare the cost estimate. A detailed breakdown of lump sum costs will be provided.

Schedule. Prepare a bar schedule of the anticipated construction timeline.

Estimate of Time. BDE Form 220A will be used to prepare the estimate of time. Itemized production rates will be determined using established guideline shown in the Chapter 66 of the *BDE Manual*.

TASK 10 – PS&E SUBMITTALS

The services under this task include time associated with preparing plot files, coordination of printing and distribution of plans to all stakeholders. Submittals will be prepared and assembled in accordance with **DEPARTMENT/BLRS Phase 2 Plans and Specifications Guidelines**. The final number of copies will be as directed by the **DEPARTMENT**.

Preliminary. This submittal will be considered 85% complete and will include plans, specifications, cost estimate, and estimate of time. PDF's of these documents will be submitted to the **LPA** and utility companies.

Pre-final. This submittal will be considered 95% complete and will include plans, specifications, cost estimate, estimate of time and quantity calculations. PDFs of these documents will be submitted to the **LPA, DEPARTMENT**, local agencies, permitting agencies and utility companies.

Final. This submittal will be considered 100% complete and will include plans, specifications, cost estimate, estimate of time, and quantity calculations. These documents will be submitted to the **LPA, DEPARTMENT**, local agencies, permitting agencies and utility companies as discussed in the Submittals section.

<u>Agency</u>	<u>Plans</u>	<u>Documents</u>
LPA	PDF	PDF
DEPARTMENT/BLRS	PDF	PDF
	2 copies (11"x17"), 1 copy (22"x34")	3 copies
Local Agencies	PDF	PDF
MCP&D	1 copy (11"x17")	PDF
MLCSWCD	1 copy (22"x34")	PDF
USACE	PDF	N/A
Utilities	PDF	N/A

Central Office. This is the bid set submittal and will include plans, specifications, cost estimate, estimate of time, quantity calculations and final documents.

<u>Agency</u>	<u>Plans</u>	<u>Documents</u>
LPA	2 copies (11"x17"), 2 copies (22"x34")	4 copies
DEPARTMENT/BLRS	PDF	PDF

Electronic files including (dgn, pdf, word and excel files) will be included in submittal to **LPA** for the preliminary, pre-final, final and Central Office submittals.

Disposition of Comments. Each submittal will include a formal disposition of comments that addresses all review comments from the **DEPARTMENT** and any other agencies. Dispositions to **LPA** comments will be through Bluebeam.

Grading Surface Models. Provide existing surface, and proposed subgrade and final surface 3D models for use in earthwork calculations and construction layout. Models will be identified as "Optional Information" for bidding and construction.

TASK 11 - PERMITTING AND ENVIRONMENTAL COORDINATION

Wetland Mitigation. Assist the **LPA** with the wetland mitigation process. Wetland mitigation is to be provided by a wetland mitigation bank. Payment of the wetland banking fee will be provided by the **LPA**.

Section 404 Permit. Prepare and submit the joint application. This application packet is designed to simplify the approval process from the (USACE), Illinois Department of Natural Resources/Office of Water Resources (IDNR/OWR) and the Illinois Environmental Protection Agency (IEPA). It is assumed that the project will be permitted as Nationwide Permit 14 (Linear Transportation Project).

McHenry County Stormwater Management Permit Application. Prepare the necessary documentation to submit a permit application to McHenry County Planning and Development (MCP&D) or certified community for the stormwater management, floodplain, and wetland portions of the McHenry County Stormwater Management Ordinance. Provide revisions as necessary until permit application has been approved.

McHenry County Stormwater Management Permit Certification. Prepare as-built plans (record drawings) by a licensed land surveyor or licensed professional engineer. Submit to MCP&D at the completion of construction. Provide revisions as necessary until approved.

- Preliminary as-built compensatory storage verification during construction using contractor/**LPA** finished grade survey.

- Topographic survey of the final construction project. The topographic survey will include the project limits with roadway cross sections taken at 50-foot intervals. Cross sections shall identify the right-of-way, centerline of roadway, edge of pavement, edge of shoulder, visible structures and the slope of the embankments. An as-built digital terrain model (DTM) will be used for preparing the cross sections.
- A certificate stating that compensatory storage areas/stormwater management facilities were constructed in substantial conformance with the approved development plans. Submittal shall include:
 - A tabular summary of fill and excavation volumes between 0 and 10-year, and 10-year and 100-year
 - As-built cross sections showing the areas of fill and excavation (noted above) overlaid on the existing and Phase II cross sections.
 - As-built plan with the location of cross sections.

McHenry-Lake County Soil and Water Conservation District (MLSWCD) Review. Prepare the necessary submittals required for MLSWCD's soil erosion and sediment control review and approval. Fees, if required, will be paid by the **LPA**.

IDNR Floodway Construction Permit. Complete the floodway construction permit for the Illinois Department of Natural Resources – Office of Water Resources (IDNR-OWR). The floodway construction permit application was assembled and submitted in the Phase I. It is anticipated that comments will need to be addressed in the Phase II in order to secure the permit.

NPDES Permit. Complete and submit the National Pollutant Discharge Elimination System (NPDES) Permit, Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent (NOI) and Erosion and Sediment Control Plans to IEPA. Complete BDE Forms 2342 and 2342A for inclusion into the Special Provisions.

Environmental Survey Request Addendum/Update. Prepare ESR addendum or request updates from **DEPARTMENT** to ensure environmental clearances are valid.

Bridge Bat Assessment. Conduct bat assessment according to **DEPARTMENT** Circular Letter 2022-28. The Bridge/Structure Bat Assessment form, with photographs, will be completed, signed, and submitted with the ESR.

Incidental Take Authorization. Prepare and coordinate an Incidental Take Authorization for the Bandings Turtle. The tasks necessary include Conservation Plan preparation, IDNR preliminary review comments, public notice in the local newspaper and state newspaper, public comment response, submittal to Illinois Endangered Species Protection Board, and finalizing the Conservation Plan for IDNR approval.

TASK 12 - PHASE III ACTIVITIES

Request for Information. Provide direction and clarification on Request for Information (RFI's) from contractor questions during the bidding process and respond to RFI's, which may include plan revisions during construction.

Shop Drawing Review. Provide shop drawing review on all items where review is required by the contract specifications and IDOT documentation procedures. The following items are assumed to require reviews:

- PPC IL-Beams
- Bearing Pads
- Pipe Pile Splice
- Rebar Shop Drawing
- Concrete Mix Design
- CalTrans ST-76 Railing

Pre-Construction Meeting. Attend the mandatory pre-construction meeting at **DEPARTMENT** District 1 office (See Task 13 – Meetings and Coordination).

TASK 13 – SUPPLEMENTAL GEOTECHNICAL STUDIES

Supplemental geotechnical studies will be performed for the roadway improvement limits not included in the Phase I scope. Geotechnical services and report will conform to the requirements of the DEPARTMENT Geotechnical Manual.

Subgrade Borings. Provide six subgrade borings at along the roadway approaches to the bridge

Laboratory Testing. The scope will include laboratory testing per AASHTO/ASTM guidelines testing for soil index, particle size distribution, Atterberg limits, soil settlement and collapse potential, shear strength of soil and soil classification.

Geotechnical Report. The Phase I geotechnical report will be updated to document the supplemental findings including topsoil depths, undercut locations, and design recommendations. These will be used as the basis for contract plan pay items and quantities.

TASK 14 - MEETINGS AND COORDINATION

Meetings will serve to discuss and resolve issues in the design engineering process. Agendas and exhibits will be prepared and distributed prior to meetings. Draft minutes will be prepared and distributed no later than five working days after the meeting. Final minutes will be distributed no later than five working days after the review period. A list of action items will be maintained and updated at each meeting. The following meetings are anticipated:

- One (1) project initiation meeting with the **LPA**
- One (1) project initiation meeting with the **DEPARTMENT**
- One (1) plan-in-hand meeting with the **LPA**
- One (1) meeting with McHenry County P&D
- One (1) meeting with U.S. Army Corps of Engineers
- One (1) pre-construction meeting with the MLSWCD

- One (1) meeting with IDOT District One Detour Committee
- One (1) pre-construction meeting with the **DEPARTMENT**
- Three (3) property owner meetings and exhibits

TASK 15 - PROJECT ADMINISTRATION AND MANAGEMENT

The successful management of a Phase II project requires scheduling and reporting of the progress of the project. Services will include the following tasks:

Project Setup. Provide tasks including contract administration, budget control, internal project team meetings, and project close out.

Monthly Invoices and Progress Reports. Prepare and submit monthly invoices and progress reports during months when engineering activities occur, and invoices are due. Progress reports are due by the first of the month.

Project Coordination and Monthly Calls. Provide phone and email updates and general project coordination with the **LPA** as necessary to advance the progress of the project. A one hour video meeting is assumed every other month.

Project Schedule Monitoring. Prepare and monitor a project schedule and update quarterly as tasks or project scheduling change, as well as perform scope of services reviews, resource planning, internal team coordination and contract administration and invoicing. The schedule assumes 18 months for Phase II services and 12 months for Phase III activities.

TASK 16 – QUALITY ASSURANCE/QUALITY CONTROL

- Establish and adhere to an approved project QA/QC plan.
- Submit certification of QA/QC for each submittal attesting the QA/QC plan has been implemented on the contract documents.
- Perform an independent peer review and constructability review of the preliminary, pre-final and final plans and documents.

EXCLUSIONS TO THE SCOPE OF SERVICES

The following tasks or items were deemed unnecessary and would be considered as additional services if required:

- Public information meeting or public hearing
- Public notices
- Wetland banking fee
- Subsurface Utility Engineering (SUE) investigation
- Title commitments (By **LPA**)
- Land acquisition services (appraisals, negotiations, closings, and certification) (By **LPA**)
- Conditional Letter of Map Revision (CLOMR) or Letter of Map Revision (LOMR)
- Building Information Modeling (BIM),
- Preliminary Site Investigation (PSI))

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
County of McHenry	BLA, Inc.	McHenry	21-00532-00-BR

**EXHIBIT B
PROJECT SCHEDULE**

See Attached Exhibit B



Exhibit B

Project Schedule

CONSULTING
ENGINEERS



BLA, Inc.

333 Pierce Road, Suite 200 • Itasca, IL 60143
630 438 6400 • FAX 630 438 6444 • www.bla-inc.com



Exhibit C

QBS Checklist

CONSULTING
ENGINEERS



BLA, Inc.

333 Pierce Road, Suite 200 • Itasca, IL 60143
630 438 6400 • FAX 630 438 6444 • www.bla-inc.com

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
County of McHenry	BLA, Inc.	McHenry	21-00532-00-BR

**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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes Due date of submittal

Method(s) used for advertisement and dates of advertisement

5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Project Criteria	Weighting
Technical Approach	30%
Firm Experience	20%
Specialized Expertise	20%
Staff Capabilities	10%
Work Load Capacity	10%
Past Performance	10%
In-State / Local Presence	0%

8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
---	---	--------------------------	-------------------------------------

Selection committee (titles) for this project

Top three consultants ranked for this project in order

- | | |
|---|---------------------|
| 1 | BLA, Inc. |
| 2 | Stanley Consultants |
| 3 | Strand Associates |

9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Local Public Agency	Prime Consultant (Firm) Name	County	Section Number
County of McHenry	BLA, Inc.	McHenry	21-00532-00-BR

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)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Exhibit D

CECS

CONSULTING
ENGINEERS



BLA, Inc.

333 Pierce Road, Suite 200 • Itasca, IL 60143
630 438 6400 • FAX 630 438 6444 • www.bla-inc.com



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

Local Public Agency County of McHenry	County McHenry	Section Number 21-00532-00-BR
Prime Consultant (Firm) Name BLA, Inc	Prepared By Matthew Cesario, P.E.	Date 1/6/2025
Consultant / Subconsultant Name 	Job Number D-91-014-22	

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	30	MONTHS			OVERHEAD RATE	126.27%
START DATE	4/1/2025				COMPLEXITY FACTOR	0
RAISE DATE	ANNIVERSARY				% OF RAISE	2.00%

ESCALATION PER YEAR

DETERMINE THE MID POINT OF THE AGREEMENT

15

CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT

2.50%

The total escalation for this project would be: 2.50%

Local Public Agency**County****Section Number**

County of McHenry

McHenry

21-00532-00-BR

Consultant / Subconsultant Name**Job Number**

D-91-014-22

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	2.50%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$86.00	\$86.00
Director of Construction Engineering	\$86.00	\$86.00
Director of Structural Engineering	\$86.00	\$86.00
Director of Environmental Services	\$59.25	\$60.73
Director of Preliminary Design Services	\$86.00	\$86.00
Director of Municipal Services	\$68.25	\$69.96
Senior Transportation Engineer	\$75.34	\$77.22
Senior Project Manager	\$86.00	\$86.00
Director of Design	\$70.00	\$71.75
Senior Structural Engineer	\$82.94	\$85.01
Project Manager	\$53.94	\$55.29
Senior Drainage Manager	\$64.00	\$65.60
Project Engineer	\$42.00	\$43.05
Office Engineer	\$52.15	\$53.45
Design Engineer	\$32.97	\$33.79
Senior Resident Engineer	\$70.00	\$71.75
Resident Engineer I	\$50.93	\$52.20
Resident Engineer II	\$56.17	\$57.57
Construction Engineer II	\$43.00	\$44.08
Construction Engineer I	\$34.33	\$35.19
Structural Engineer II	\$44.34	\$45.45
Structural Engineer I	\$38.41	\$39.37
CAD Tech II	\$34.25	\$35.11
Sr. Marketing Coordinator / Public Outreach	\$39.12	\$40.10
Engineering Intern	\$20.00	\$20.50

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

D-91-014-22

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 ANNIVERSARY RAISE

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			\$0.00
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day	13	\$65.00	\$845.00
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)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	1442	\$0.19	\$273.98
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
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)			\$0.00
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
Utlility 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
Copies of Deliverables/Mylars (In-house) (BW:8.5x11 / 11x17)	Actual Cost (Submit supporting documentation)	3416	\$0.10	\$341.60
Copies of Deliverables/Mylars (In-house) (BW:22x34)	Actual Cost (Submit supporting documentation)	400	\$1.05	\$420.00
Permit Fee: IEPA / NPDES	Actual Cost	1	\$750.00	\$750.00
				\$0.00
TOTAL DIRECT COSTS:				\$2,630.58

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

D-91-014-22

COST ESTIMATE WORKSHEET

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

OVERHEAD RATE **126.27%**

COMPLEXITY FACTOR **0.00%**

TASK	DIRECT COSTS	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
Task 1: Early Coord. & Data Review	65	12	594	751	196		1,541	0.31%
Task 2: Supplemental Surveys & ROW		24	1,189	1,501	392	22,549	25,631	5.21%
Task 3: Utility Coordination	4	88	4,294	5,422	1,417		11,133	2.26%
Task 4: Prelim. Site Investigation		4	230	290	76	6,097	6,693	1.36%
Task 5: Roadway Plans		798	39,021	49,271	12,877		101,169	20.55%
Task 6: Structural Plans		887	47,922	60,511	15,814		124,247	25.24%
Task 7: Quantity Calculations		160	7,821	9,876	2,581		20,278	4.12%
Task 8: Spec. & Special Provisions		120	5,866	7,407	1,936		15,209	3.09%
Task 9: Construction Estimate of Cost		32	1,496	1,889	494		3,879	0.79%
Task 10: PS&E Submittals	610	124	6,097	7,699	2,012		15,808	3.21%
Task 11: Permitting & Env. Coord.	1,012	452	22,900	28,915	7,557	9,051	68,423	13.90%
Task 12: Phase III Activities		220	13,882	17,529	4,581		35,992	7.31%
Task 13: Supplemental Geotechnical Studies		8	459	580	152	17,086	18,277	3.71%
Task 14: Meetings & Coordination	723	60	3,370	4,255	1,112		8,737	1.77%
Task 15: Project Admin. & Management		62	4,563	5,761	1,506		11,830	2.40%
Task 16: QA/QC	216	100	7,460	9,420	2,462		19,342	3.93%
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Subconsultant DL							\$1,451.60	0.29%
Direct Costs Total ==>	\$2,630.58						\$2,630.58	0.53%
TOTALS		3151	167,164	211,077	55,165	54,783	492,272	100.00%

378,241

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

D-91-014-22

AVERAGE HOURLY PROJECT RATES

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

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 1: Early Coord. & Data Review			Task 2: Supplemental Surveys & ROW			Task 3: Utility Coordinaton			Task 4: Prelim. Site Investigation			Task 5: Roadway Plans		
		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	28.0	0.89%	0.76															
Director of Construction Engineering	86.00	0.0																	
Director of Structural Engineering	86.00	144.0	4.57%	3.93															
Director of Environmental Services	60.73	106.0	3.36%	2.04															
Director of Preliminary Design Services	86.00	0.0																	
Director of Municipal Services	69.96	0.0																	
Senior Transportation Engineer	77.22	0.0																	
Senior Project Manager	86.00	0.0																	
Director of Design	71.75	674.0	21.39%	15.35	4	33.33%	23.92	8	33.33%	23.92	26	29.55%	21.20	2	50.00%	35.88	240	30.08%	21.58
Senior Structural Engineer	85.01	200.0	6.35%	5.40															
Project Manager	55.29	0.0																	
Senior Drainage Manager	65.60	0.0																	
Project Engineer	43.05	712.0	22.60%	9.73	4	33.33%	14.35	8	33.33%	14.35	36	40.91%	17.61	2	50.00%	21.53	318	39.85%	17.16
Office Engineer	53.45	0.0																	
Design Engineer	33.79	540.0	17.14%	5.79	4	33.33%	11.26	8	33.33%	11.26	26	29.55%	9.98				240	30.08%	10.16
Senior Resident Engineer	71.75	0.0																	
Resident Engineer I	52.20	0.0																	
Resident Engineer II	57.57	0.0																	
Construction Engineer II	44.08	0.0																	
Construction Engineer I	35.19	0.0																	
Structural Engineer II	45.45	372.0	11.81%	5.37															
Structural Engineer I	39.37	375.0	11.90%	4.69															
CAD Tech II	35.11	0.0																	
Sr. Marketing Coordinator / Public Outreach	40.10	0.0																	
Engineering Intern	20.50	0.0																	
		0.0																	
		0.0																	
TOTALS		3151.0	100%	\$53.05	12.0	100.00%	\$49.53	24.0	100%	#####	88.0	100%	\$48.79	4.0	100%	\$57.40	798.0	100%	\$48.90

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

D-91-014-22

AVERAGE HOURLY PROJECT RATES

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

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 6: Structural Plans			Task 7: Quantity Calculations			Task 8: Spec. & Special Provisions			Task 9: Construction Estimate of Cost			Task 10: PS&E Submittals			Task 11: Permitting & Env. Coord.		
		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																		
Director of Construction Engineering	86.00																		
Director of Structural Engineering	86.00	90	10.15%	8.73															
Director of Environmental Services	60.73																106	23.45%	14.24
Director of Preliminary Design Services	86.00																		
Director of Municipal Services	69.96																		
Senior Transportation Engineer	77.22																		
Senior Project Manager	86.00																		
Director of Design	71.75				48	30.00%	21.53	36	30.00%	21.53	8	25.00%	17.94	40	32.26%	23.15	92	20.35%	14.60
Senior Structural Engineer	85.01	150	16.91%	14.38															
Project Manager	55.29																		
Senior Drainage Manager	65.60																		
Project Engineer	43.05				64	40.00%	17.22	48	40.00%	17.22	12	37.50%	16.14	42	33.87%	14.58	138	30.53%	13.14
Office Engineer	53.45																		
Design Engineer	33.79				48	30.00%	10.14	36	30.00%	10.14	12	37.50%	12.67	42	33.87%	11.45	116	25.66%	8.67
Senior Resident Engineer	71.75																		
Resident Engineer I	52.20																		
Resident Engineer II	57.57																		
Construction Engineer II	44.08																		
Construction Engineer I	35.19																		
Structural Engineer II	45.45	322	36.30%	16.50															
Structural Engineer I	39.37	325	36.64%	14.43															
CAD Tech II	35.11																		
Sr. Marketing Coordinator / Public Outreach	40.10																		
Engineering Intern	20.50																		
TOTALS		887.0	100%	\$54.03	160.0	100%	\$48.88	120.0	100%	\$48.88	32.0	100%	\$46.75	124.0	100%	\$49.17	452.0	100%	\$50.66

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

D-91-014-22

AVERAGE HOURLY PROJECT RATES

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

SHEET 3 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 12: Phase III Activities			Task 13: Supplemental Geotechnical Studies			Task 14: Meetings & Coordination			Task 15: Project Admin. & Management			Task 16: QA/QC					
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Principal	86.00									8	12.90%	11.10	20	20.00%	17.20				
Director of Construction Engineering	86.00																		
Director of Structural Engineering	86.00	50	22.73%	19.55				4	6.67%	5.73									
Director of Environmental Services	60.73																		
Director of Preliminary Design Services	86.00																		
Director of Municipal Services	69.96																		
Senior Transportation Engineer	77.22																		
Senior Project Manager	86.00																		
Director of Design	71.75	8	3.64%	2.61	4	50.00%	35.88	24	40.00%	28.70	54	87.10%	62.49	80	80.00%	57.40			
Senior Structural Engineer	85.01	50	22.73%	19.32															
Project Manager	55.29																		
Senior Drainage Manager	65.60																		
Project Engineer	43.05	12	5.45%	2.35	4	50.00%	21.53	24	40.00%	17.22									
Office Engineer	53.45																		
Design Engineer	33.79							8	13.33%	4.51									
Senior Resident Engineer	71.75																		
Resident Engineer I	52.20																		
Resident Engineer II	57.57																		
Construction Engineer II	44.08																		
Construction Engineer I	35.19																		
Structural Engineer II	45.45	50	22.73%	10.33															
Structural Engineer I	39.37	50	22.73%	8.95															
CAD Tech II	35.11																		
Sr. Marketing Coordinator / Public Outreach	40.10																		
Engineering Intern	20.50																		
TOTALS		220.0	100%	\$63.10	8.0	100%	\$57.40	60.0	100%	\$56.16	62.0	100%	\$73.59	100.0	100%	\$74.60	0.0	0%	\$0.00

TR 114 -Paulsen Road				
North Branch Kishwaukee River				
Section: 21-00532-00-BR				
D-91-014-22 / BVIM(733)				
<u>Task and Description</u>	<u>Sheets</u>	<u>Sets</u>	<u>Rate</u>	<u>Extended Cost</u>
Task 1 - Early Coordination and Data Review				
<i>Vehicle Days</i>		1	\$65.00	\$65.00
			Subtotal:	\$65.00
Task 2 - Supplemental Survey				
<i>(No Direct Cost - Included in Subconsultant's Cost)</i>	---	---	---	---
			Subtotal:	---
Task 3 - Utility Coordination				
<i>Conflict List (8.5x11)</i>	2	3	\$0.10	\$0.60
<i>Conflict Exhibit (11x17 Color)</i>	2	3	\$0.19	\$1.14
<i>Photo Log (8.5x11 Color)</i>	4	3	\$0.19	\$2.28
			Subtotal:	\$4.02
Task 4 - Preliminary Site Investigation				
<i>(No Direct Cost)</i>	---	---	---	---
			Subtotal:	---
Task 5 - Roadway Plans				
<i>(No Direct Cost - Included in Task 16)</i>	---	---	---	---
			Subtotal:	---
Task 6 - Structural Plans				
<i>(No Direct Cost - Included in Task 16)</i>	---	---	---	---
			Subtotal:	---
Task 7 - Quantity Calculations				
<i>(No Direct Cost - Included in Task 16)</i>	---	---	---	---
			Subtotal:	---
Task 8 - Specifications and Special Provisions				
<i>(No Direct Cost - Included in Task 16)</i>	---	---	---	---
			Subtotal:	---
Task 9 - Construction Estimate of Cost and Estimate of Time				
<i>(No Direct Cost - Included in Task 16)</i>	---	---	---	---
			Subtotal:	---
Task 10 - PS&E Submittals				
<i>Final Summittal - Plans (11x17 BW)</i>	100	5	\$0.10	\$50.00
<i>Final Summittal - Plans (22x34 BW)</i>	100	4	\$1.05	\$420.00
<i>Final Summittal - Documents (8.5x11 BW)</i>	150	5	\$0.10	\$75.00
<i>Vehicle Days</i>		1	\$65.00	\$65.00
			Subtotal:	\$610.00
Task 11 - Permitting and Environmental Coordination				
<i>Section 404 Permit (11x17 Color)</i>	20	3	\$0.19	\$11.40
<i>Section 404 Permit (8.5x11 Color)</i>	100	3	\$0.19	\$57.00
<i>McHenry County PD Permit (11x17 Color)</i>	20	3	\$0.19	\$11.40
<i>McHenry County PD Permit (8.5x11 Color)</i>	100	3	\$0.19	\$57.00
<i>McHenry Lake SWCD Permit (11x17 Color)</i>	10	3	\$0.19	\$5.70
<i>McHenry Lake SWCD Permit (8.5x11 Color)</i>	20	3	\$0.19	\$11.40
<i>IDNR Floodway Construction Permit (11x17 Color)</i>	20	3	\$0.19	\$11.40

<i>IDNR Floodway Construction Permit (8.5x11 Color)</i>	100	3	\$0.19	\$57.00
<i>NPDES Permit (11x17 Color)</i>	10	3	\$0.19	\$5.70
<i>NPDES Permit (8.5x11 Color)</i>	20	3	\$0.19	\$11.40
<i>IEPA/NPDES Permit Fee</i>				\$750.00
<i>ITA (11x17 Color)</i>	20	3	\$0.19	\$11.40
<i>ITA (8.5x11 Color)</i>	20	3	\$0.19	\$11.40
			Subtotal:	\$1,012.20
Task 12 - Phase III Activities				
<i>(No Direct Cost)</i>	---	---	---	---
			Subtotal:	---
Task 13 - Right of Way and Easement Plats				
<i>(No Direct Cost - Included in Subconsultant's Cost)</i>	---	---	---	---
			Subtotal:	---
Task 14 - Meetings and Coordination				
<i>Exhibits (11x17 Color)</i>	2	11	\$0.19	\$4.18
<i>Agenda, Minutes, Handouts (8.5x11 Color)</i>	2	11	\$0.19	\$4.18
<i>Vehicle Days</i>		11	\$65.00	\$715.00
			Subtotal:	\$723.36
Task 15 - Project Administration and Management				
<i>(No Direct Cost)</i>	---	---	---	---
			Subtotal:	---
Task 16 - Quality Assurance / Quality Control				
<i>Roadway Plan Set Check Plots - Plans (11x17 BW)</i>	65	6	\$0.10	\$39.00
<i>Roadway Plan Set Check Plots - Specifications (8.5x11 BW)</i>	100	6	\$0.10	\$60.00
<i>Roadway Plan Set Check Plots - Quantities (8.5x11 BW)</i>	50	6	\$0.10	\$30.00
<i>Roadway Plan Set Check Plots - Estimates (8.5x11 BW)</i>	5	6	\$0.10	\$3.00
<i>Structural Plan Set Check Plots - Plans (11x17 BW)</i>	35	6	\$0.10	\$21.00
<i>Structural Plan Set Check Plots - Specifications (8.5x11 BW)</i>	50	6	\$0.10	\$30.00
<i>Structural Plan Set Check Plots - Quantities (8.5x11 BW)</i>	50	6	\$0.10	\$30.00
<i>Structural Plan Set Check Plots - Estimates (8.5x11 BW)</i>	5	6	\$0.10	\$3.00
			Subtotal:	\$216.00
Total				\$2,630.58



Exhibit E

Sub-Consultant Backup

CONSULTING
ENGINEERS



BLA, Inc.

333 Pierce Road, Suite 200 • Itasca, IL 60143
630 438 6400 • FAX 630 438 6444 • www.bla-inc.com



JORGENSEN & ASSOCIATES, INC.
LAND SURVEYORS
Est. 1990

January 14, 2025

Mr. Matthew Cesario, P.E.
Vice President
BLA, Inc.
333 Pierce Road
Suite 200
Itasca, Illinois 60143

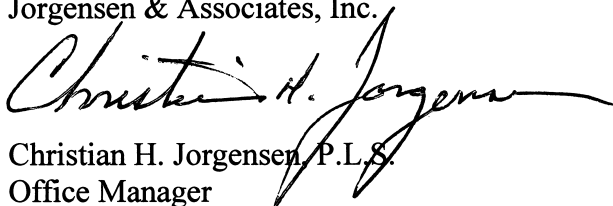
Re: McHenry County – Paulsen Road Phase II Survey Proposal

Dear Mr. Cesario:

Enclosed please find our updated proposal to prepare an "As-Built" survey and a statutory plat of highways with legal descriptions for the referenced project.

Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)708-7546.

Respectfully submitted,
Jorgensen & Associates, Inc.



Christian H. Jorgensen, P.L.S.
Office Manager

CHJ/pt

Enclosures

E:\BLA\McHenry Co\Paulsen Rd\Phase II\Revised\Letter

Route: Paulsen Road
Section: 21-00532-00-BR
County: McHenry
Job No.:

SCOPE OF SERVICES

"As-Built" Survey

General topo to include: structures, ground shots, roadway and shoulders, guardrail, utilities, trees 4" and larger, soil borings and wetland flags within the project corridor.

The project corridor being 70 feet east and west of the roadway center line lying 500 feet south of the south end of the bridge and 500 feet north of the north end of the bridge. The survey will extend 50 feet beyond the east and west faces of the bridge through the North Branch of the Kishwaukee River.

Establish bench marks and horizontal control points based on McHenry County and I.D.O.T. geodetic survey monuments with G.P.S. survey methods. Locate and describe bench marks and reference horizontal control points. The project will be based on NAD '83(2011) and NGVD '88 datums.

Prepare "MicroStation" base file of survey and provide "GEOPAK" T.I.N.

Land Acquisition Survey

General: Prepare a Plat of Highways and legal descriptions for 3 fee simple and 2 fee simple and temporary easement parcels, along the project corridor with the following permanent index numbers:

07-20-400-013
07-20-400-016
07-20-400-017
07-21-300-001
07-21-300-002

The project involves land surveying to reference the highways center lines to public land lines, location of property boundaries, preparation of a statutory plat of highways and legal descriptions, monumentation of the proposed right of way and highways center lines. The preparation and recording of "Monument Record" documents for all U.S. public land survey monuments referenced in the plat of highways.

Search for and locate boundary monumentation and locate appraisal topography on all affected parcels.

(Continued)

Research at County Recorder for any pertinent boundary documentation. Review title commitments, calculate parcel boundaries, proposed center line alignments and proposed right of way lines.

Prepare preliminary plat of highways and legal descriptions.

Monument center line alignments, proposed right of way, section corners and quarter corners.

Prepare final plat of highways and legal descriptions, submit to client for recording.

Prepare plat of resolution, submit to client for recording.

Route: Paulsen Road
Section: 21-00532-00-BR
County: McHenry
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.96%
State Unemployment Compensation _____	0.32%
Federal Unemployment Compensation _____	0.13%
Workmen's Compensation Insurance _____	1.35%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	11.22%
Bonus _____	4.12%
401(K) _____	0.88%
Group Insurance _____	<u>42.24%</u>
Total Payroll Burden & Fringe Costs	72.22%

Route: Paulsen Road
Section: 21-00532-00-BR
County: McHenry
Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.26%
Depreciation _____	4.22%
Indirect wages and salaries _____	43.10%
Office Expenses _____	1.18%
Office Supplies _____	2.59%
Dues & Subscriptions _____	0.54%
Computer Software _____	4.32%
Professional Fees _____	1.57%
Telephone _____	2.77%
Fees, license & dues _____	0.05%
Repairs and maintenance _____	2.30%
Business space rent _____	4.74%
Facilities - capital _____	0.33%
In-house mileage _____	-5.71%
Survey Supplies _____	0.80%
Automobile/travel expense _____	7.16%
Miscellaneous Expense _____	0.54%
State Income Tax _____	0.39%
Recruiting _____	1.05%
Postage _____	0.10%
Educational & Professional Registrations _____	0.26%
Tech _____	<u>1.66%</u>
 Total Overhead	 78.22%



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

Local Public Agency County of McHenry	County McHenry	Section Number 21-00532-00-BR
Prime Consultant (Firm) Name Jorgensen & Associates, Inc.	Prepared By Christian H. Jorgensen	Date 1/13/2025
Consultant / Subconsultant Name BLA, Inc.	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	30	MONTHS			OVERHEAD RATE	150.44%
START DATE	4/1/2025				COMPLEXITY FACTOR	0
RAISE DATE	ANNIVERSARY				% OF RAISE	2.00%

ESCALATION PER YEAR

DETERMINE THE MID POINT OF THE AGREEMENT

15

CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT

2.50%

The total escalation for this project would be: 2.50%

Local Public Agency

County

Section Number

County of McHenry

McHenry

21-00532-00-BR

Consultant / Subconsultant Name

Job Number

BLA, Inc.

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	2.50%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Surveyor, P.L.S.	\$47.00	\$48.18
Survey Party Chief, P.L.S.	\$34.50	\$35.36
Instrument Operator	\$22.00	\$22.55
Cadd Supervisor	\$36.25	\$37.16
Administrative Assistant	\$26.50	\$27.16

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

BLA, Inc.

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 ANNIVERSARY RAISE

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	865	\$0.67	\$579.55
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)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)	8	\$5.00	\$40.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
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)			\$0.00
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	3	\$62.00	\$186.00
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
Utility 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
				\$0.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$805.55

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

BLA, Inc.

Job Number

COST ESTIMATE WORKSHEET

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

OVERHEAD RATE **150.44%**

COMPLEXITY FACTOR **0.00%**

TASK	DIRECT COSTS	STAFF HOURS	PAYROLL	OVERHEAD & FRINGE BENEFITS	FIXED FEE	SERVICES BY OTHERS	TOTAL	% OF GRAND TOTAL
(1) "As-Built" Survey	218	103	3,193	4,804	1,054		9,051	28.64%
(2) Land Acquisition	424	157	5,971	8,983	1,970		16,924	53.56%
(3) Plat of Resolution	164	56	1,700	2,558	561		4,819	15.25%
			-	-	-		-	
			-	-	-		-	
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			-	-	-		-	
Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$805.55						\$805.55	2.55%
TOTALS		316	10,864	16,345	3,585	-	31,600	100.00%

27,209

Local Public Agency

County of McHenry

County

McHenry

Section Number

21-00532-00-BR

Consultant / Subconsultant Name

BLA, Inc.

Job Number

AVERAGE HOURLY PROJECT RATES

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

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			(1) "As-Built" Survey			(2) Land Acquisition			(3) Plat of Resolution								
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Surveyor, P.L.S.	48.18	47.0	14.87%	7.17	2	1.94%	0.94	42	26.75%	12.89	3	5.36%	2.58						
Survey Party Chief, P.L.S.	35.36	82.0	25.95%	9.18	40	38.83%	13.73	18	11.46%	4.05	24	42.86%	15.16						
Instrument Operator	22.55	82.0	25.95%	5.85	40	38.83%	8.76	18	11.46%	2.59	24	42.86%	9.66						
Cadd Supervisor	37.16	100.0	31.65%	11.76	21	20.39%	7.58	76	48.41%	17.99	3	5.36%	1.99						
Administrative Assistant	27.16	5.0	1.58%	0.43				3	1.91%	0.52	2	3.57%	0.97						
		0.0																	
		0.0																	
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TOTALS		316.0	100%	\$34.38	103.0	100.00%	\$31.00	157.0	100%	\$38.03	56.0	100%	\$30.36	0.0	0%	\$0.00	0.0	0%	\$0.00

Route: Paulsen Road
 Section: 21-00532-00-BR
 County: McHenry
 Job No.:

Manhour Breakdown
"As-Built" Survey
 Length of Project

Paulsen Road $\pm 1,100' = \pm 0.208 \text{ mile}$
 Total Length $\pm 1,100' = \pm 0.208 \text{ mile}$

1. Field - "As-Built" Survey

a. Measure traverse & level circuit 2 hours x 2 men =	4 MH
b. Locate existing topography 38 hours x 2 men =	<u>76 MH</u>
Sub-total Item #1	80 MH

2. Office - Compile Field Data

a. Compute traverse & level circuit 1 hour x 1 man =	1 MH
b. Edit & compile topographic survey 6 hours x 1 man =	<u>6 MH</u>
Sub-total Item #2	7 MH

3. Office - Create "As-Built" Survey Base File

a. Layout and drafting existing topography 13 hours x 1 man =	13 MH
--	-------

4. Office - Create T.I.N. & Contours

a. Compute contours

1 hour x 1 man =

1 MH

5. QC/QA

a. Check "As-Built" survey & contours

2 hours x 1 man =

2 MH

Route: Paulsen Road
 Section: 21-00532-00-BR
 County: McHenry
 Job No.:

**Manhour Breakdown
 Land Acquisition Estimate**

Length of Project

Paulsen Road +1,100' = ± 0.208 mile
 Total Length ±1,100' = ± 0.208 mile

5 Parcels: 3 Fee Simple and 2 Fee Simple & Temporary Easement

6. First Submittal Plat of Highways & Descriptions

a.	Ownership info)	
)	
b.	Total holding boundaries)	
)	
c.	Total holding area listing)	2 MH
)	
d.	Private survey info)	
)	
e.	Deed calculated closures)	
f.	Layout and drafting	± 600'/sht. ± 4 sheets	
	56 hours x 1 man =		56 MH
	Index Sheet/Cover Sheet	1 sheet	
	2 hours x 1 man =		2 MH
	Alignment sheets	1 sheet	
	1 hour x 1 man =		1 MH
	Total Holding sheets	2 sheets	
	6 hours x 1 man =		6 MH
g.	Legal descriptions	7 descriptions	<u>7 MH</u>
		Sub-total Item #6	74 MH

7.	Survey (Field)		
	a.	Measure traverse 2 hours x 2 men =	4 MH
	b.	Measure existing property & section lines 8 hours x 2 men =	16 MH
	c.	Monument & reference section & quarter corners 8 hours x 2 men =	<u>16 MH</u>
		Sub-total Item #7	36 MH
8.	Survey (Office)		
	a.	Compute traverse 1 hour x 1 man =	1 MH
	b.	Compute existing property & section lines 6 hours x 1 man =	<u>6 MH</u>
		Sub-total Item #8	7 MH
9.	Pre-Final Submittal Plat of Highways & Descriptions		
	a.	Pre-Final drafting \pm 8 sheets 3 hours x 1 man =	3 MH
	b.	Final descriptions 7 descriptions	1 MH
	c.	Prepare & record Monument Records 3 Monument Records	6 MH
	d.	Assembly of final papers	<u>3 MH</u>
		Sub-total Item #9	13 MH

10. QC/QA

a.	Check preliminary plats 8 sheets	22 MH
b.	Check preliminary legal descriptions 7 legal descriptions	2 MH
c.	Check pre-final plats 8 sheets	2 MH
d.	Check final legal descriptions 7 legal descriptions	<u>1 MH</u>

Sub-total Item #10 27 MH

Route: Paulsen Road
 Section: 21-00532-00-BR
 County: McHenry
 Job No.:

**Manhour Breakdown
 Plat of Resolution**

Paulsen Road $\pm 1,100' = \pm 0.208$ mile
 Total Length $\pm 1,100' = \pm 0.208$ mile

11. Field – Monument Proposed R.O.W.

a. Measure traverse		
2 hours x 2 men =		4 MH
b. Monument R.O.W.		
22 hours x 2 men =		<u>44 MH</u>
	Sub-total Item #11	48 MH

12. Office – Stake Out Data

a. Compute stake out data		
1 hour x 1 man =		1 MH

13. Update Final Submittal Plat of Highways new Index Numbers

a. Final drafting ± 8 sheets		
3 hours x 1 man =		3 MH
b. Assembly of final papers		<u>2 MH</u>
	Sub-total Item #13	5 MH

14. QC/QA

a. Check updated final plat of highways		
8 sheets		<u>2 MH</u>

Total All Items	316 MH
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Route: Paulsen Road
Section: 21-00532-00-BR
County: McHenry
Job No.:

**Breakdown of
In House Direct Costs**

Item

Item

1. Field - "As-Built" Survey	
a. Trips to project site - 5 each ± 65 miles/trip x 5 trips = ± 325 miles ± 325 miles @ \$0.67/mile =	\$ 217.75
6. First Submittal Plat of Highways & Descriptions	
a. Plat of Highways Mylars 8 sheets @ \$5.00/sheet =	\$ 40.00
7. Survey (Field)	
a. Trips to project site - 3 each ± 65 miles/trip x 3 trips = ± 195 miles ± 195 miles @ \$0.67/mile =	\$ 130.65
9. Pre-Final Submittal Plat of Highways & Descriptions	
a. Trip to McHenry County Recorder ± 50 miles/trip x 1 trip = ± 50 miles ± 50 miles @ \$0.67/mile =	\$ 33.50
b. Record Monument Records 3 Monument Records @ \$62 =	\$ 186.00
c. Deliver Final Papers to McHenry County D.O.T. ± 50 miles/trip x 1 trip = ± 50 miles ± 50 miles @ \$0.67/mile =	<u>\$ 33.50</u>
Sub-total Item #9	\$ 253.00

11. Field – Monument R.O.W. after Construction

a. Trips to project site - 3 each
± 65 miles/trip x 3 trips = ± 195 miles
± 195 miles @ \$0.67/mile = \$ 130.65

13. Final Submittal Plat of Resolution with new Index Numbers

a. Deliver Final Papers to McHenry County D.O.T.
± 50 miles/trip x 1 trip = ± 50 miles
± 50 miles @ \$0.67/mile = \$ 33.50

Total All Items \$ 805.55

January 6, 2025

BLA, Inc.

333 Pierce Road, Suite 200
Itasca, IL 60143

Attn: Matthew Cesario, P.E.
Vice President / Director of Design

Re: Proposal for Geotechnical Engineering Services
Paulson Road over North Branch Kishwaukee River
(Task 13 and Task 4)
McHenry County, Illinois
Wang PKE245507

Dear Mr. Cesario:

Wang Engineering, Inc., a Terracon Company, (Wang) is pleased to submit this proposal for geotechnical engineering services (Task 13) and CCDD screening (Task 4) to support the proposed improvements for Paulson Road Bridge over the North Branch Kishwaukee River. This project is part of Phase II Design Engineering Services and includes the roadway approaches reconstruction and widening to accommodate the new bridge replacement and soil waste management.

1.0 SCOPE OF WORK

The Paulson Road Bridge complete replacement design was addressed during Phase I. The scope of work for Phase II document provided by BLA includes six roadway borings for the approach roadway on each side of the bridge.

Given the intended engineering works, the design criteria and agency requirements, and the anticipated lithological profile, Wang proposes the following geotechnical investigation program and subtasks:

Geotechnical Drilling and Coring Services - Wang will provide equipment, labor, and associated materials to drill, test, and sample the soils at six preselected boring locations. Each boring will be extended to 10 feet below ground surface (bgs). Traffic control including roadway flaggers will be required for carrying out the drilling operations. The boreholes will be advanced with hollow stem augers, and the soil will be continuously sampled at 2-foot intervals according to AASHTO T 186, "Penetration Test and Split-Barrel Sampling of Soils." The boreholes will be backfilled with soil cuttings and bentonite chips immediately after completion and the surface patched with cold asphalt.

Field Supervision — Prior to drilling, Wang will layout the borings and clear utilities through JULIE. A field engineer will monitor drilling activities, maintain daily field notes, log the borings, as well as receive, classify, and prepare soil samples for laboratory testing. Soil samples will be classified in accordance with the IDH Textural Classification System. The field engineer will perform penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples and will observe the groundwater levels in boreholes. As-drilled boring locations will be surveyed by with a mapping-grade GPS having an accuracy of +/-5 feet. Final top of boring elevations, stations, and offsets will be provided by BLA.

Laboratory Testing - The soil testing program will include natural moisture content, Atterberg limits, and particle size analyses.

CCDD Sampling and Analytical Testing – The soil borings will have dual purpose, geotechnical and environmental/CCDD. For CCDD, soil samples will be collected from the top 5 feet of each geotechnical boring, for a total of six soil samples. The soils will be screened for volatiles compounds using photoionization detector (PID). The soil analytical testing program (part of Task 4) will include pH, volatile organic compounds (VOCs), Semi VOCs including polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), total RCRA metals, and toxicity characteristic leaching procedure (TCLP) on inorganic analytes exceeding accepted limits. Analytical testing will be carried out by an accredited IEPA laboratory.

Engineering Analysis and Recommendations Wang Deliverables One Roadway Geotechnical Report (RGR), and One Preliminary Site Investigation (PSI) letter report
The RGR will include a detailed description of the project, field, and laboratory testing procedures and a characterization of the soil and groundwater conditions, site location map, boring location plan, boring logs, and geotechnical laboratory test results. The RGR will be prepared as per the current IDOT current Geotechnical Manual requirements.

The PSI will include a summary of the analytical test results, discussions on test results, conclusion regarding the use and/or disposal methos of soil waste generated during the construction, and a soil waste management plan. The PSI will be prepared according to the current IDOT standard specifications.

Draft reports will be submitted for review; final reports will address issues raised by reviewers.

2.0 SCHEDULING

Wang will start the project expediently upon prior authorization to proceed. We anticipate that after utility clearance and access agreements one working day will be necessary to complete the drilling and sampling phase of the project. The geotechnical and analytical laboratory testing program will be concluded within two weeks after drilling completion. Draft reports will be submitted within two weeks after the Designer provides roadway plan and profile drawings.

3.0 ESTIMATED COST AND ASSUMPTIONS

Wang proposes to provide the above tasks on time and expense basis according to the attached cost estimate. Wang would not exceed the estimated upper limit without the Client approval. In preparing the cost estimate we have assumed the following conditions:

- Right-of-Entry permitting will not be required ,
- Lane closures with flaggers will be necessary and the cost is included in our estimate,
- As-drilled boring station and offsets, and elevations will be provided by BLA,
- Soil samples for analytical testing will be collected from the geotechnical borings, thus Task 4 only includes the cost for analytical testing and reporting.

Wang Engineering, Inc. appreciates the opportunity to present this proposal, and we look forward to continue working with BLA on this project. Please call us if you have any questions or if you require additional information regarding this proposal.

Sincerely,

Wang Engineering, Inc., *A Terracon Company*

Cornelia L. Marin, P.G.
Sr. Engineering Geologist

Corina T. Farez, P.E., P.G.
Principal/Senior Engineering Consultant

Attachments: Task 13 - BLR 05514, BDE 436, direct cost breakdown
Task 4 - BLR 05514, BDE 436, direct cost breakdown

Local Public Agency McHenry County DOT	County McHenry	Section Number Paulson Road - Task 4 & 13
Prime Consultant (Firm) Name BLA, Inc.	Prepared By C. Marin	Date 1/14/2025
Consultant / Subconsultant Name Wang Engineering, Inc.	Job Number PKE245507	

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	12	MONTHS	OVERHEAD RATE	202.39%
START DATE	11/1/2024		COMPLEXITY FACTOR	
RAISE DATE	11/1/2025		% OF RAISE	2.00%
END DATE	10/31/2025			

ESCALATION PER YEAR

Year	First Date	Last Date	Months	% of Contract
0	11/1/2024	10/31/2025	12	100.00%

The total escalation = 0.00%

Local Public Agency

County

Section Number

McHenry County DOT

McHenry

Paulson Road - Task 4 & 5

Consultant / Subconsultant Name

Job Number

Wang Engineering, Inc.

PKE245507

PAYROLL RATES

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

MAXIMUM PAYROLL RATE	86.00
ESCALATION FACTOR	0.00%

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal in Charge	\$92.40	\$86.00
Project Manager	\$69.30	\$69.30
Senior Engineer	\$69.30	\$69.30
Project Engineer/Project Geologist	\$42.76	\$42.76
Assistant Engineer/Assistant Geologist	\$33.52	\$33.52
Laboratory Technician	\$36.26	\$36.26
Administrative Assistant	\$35.81	\$35.81
QC/QA Reviewer	\$81.61	\$81.61

Local Public Agency

McHenry County DOT

County

McHenry

Section Number

Paulson Road - Task 4 & 13

Consultant / Subconsultant Name

Wang Engineering, Inc.

Job Number

PKE245507

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	2	\$65.00	\$130.00
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)			\$0.00
Shift Differential	Actual Cost (Based on firm's policy)			\$0.00
Overnight Delivery/Postage/Courier Service	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (In-house)	Actual Cost (Submit supporting documentation)			\$0.00
Copies of Deliverables/Mylars (Outside)	Actual Cost (Submit supporting documentation)			\$0.00
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)			\$0.00
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)	1	\$2,600.00	\$2,600.00
Aerial Photography and Mapping	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Utlility Exploratory Trenching	Actual Cost (Requires 2-3 quotes with IDOT approval)			\$0.00
Testing of Soil Samples	Actual Cost	1	\$5,575.00	\$5,575.00
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
Task 4: Lab Services		1	\$1,674.00	\$1,674.00
Task 13: Lab Services		1	\$957.00	\$957.00
				\$0.00
				\$0.00
TOTAL DIRECT COSTS:				\$10,936.00

Local Public Agency

McHenry County DOT

County

McHenry

Section Number

aulson Road - Task 4 & 1

Consultant / Subconsultant Name

Wang Engineering, Inc.

Job Number

PKE245507

COST ESTIMATE WORKSHEET

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

OVERHEAD RATE **202.39%**

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
Task 13: Field Activities	8,305	16	592	1,198	195		1,985	8.56%
Task 13: Engineering		35	1,567	3,170	517		5,254	22.66%
Task 13: Project Management		3	174	353	58		585	2.52%
Task 13: Laboratory Testing	957		-	-	-		-	0.00%
			-	-	-		-	
Task 4: Laboratory Testing	1,674	2	67	136	22		225	0.97%
Task 4: Engineering		26.5	1,148	2,323	379		3,850	16.61%
Task 4: Project Management		1.5	104	210	34		348	1.50%
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Subconsultant DL							\$0.00	
Direct Costs Total ==>	\$10,936.00						\$10,936.00	47.17%
TOTALS		84	3,652	7,390	1,205	-	23,183	100.00%

11,042

Local Public Agency

McHenry County DOT

County

McHenry

Section Number

Paulson Road - Task 4 & 1

Consultant / Subconsultant Name

Wang Engineering, Inc.

Job Number

PKE245507

AVERAGE HOURLY PROJECT RATES

EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Task 13: Field Activities			Task 13: Engineering			Task 13: Project Management			Task 13: Laboratory Testing					
		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 in Charge	86.00	0.0																	
Project Manager	69.30	3.5	4.17%	2.89							2	66.67%	46.20						
Senior Engineer	69.30	9.0	10.71%	7.43				5	14.29%	9.90									
Project Engineer/Project Geologist	42.76	34.0	40.48%	17.31	6	37.50%	16.04	18	51.43%	21.99									
Assistant Engineer/Assistant Geologist	33.52	35.0	41.67%	13.97	10	62.50%	20.95	11	31.43%	10.53									
Laboratory Technician	36.26	0.0																	
Administrative Assistant	35.81	1.0	1.19%	0.43							1	33.33%	11.94						
QC/QA Reviewer	81.61	1.5	1.79%	1.46				1	2.86%	2.33									
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TOTALS		84.0	100%	\$43.47	16.0	100.00%	\$36.99	35.0	100%	\$44.76	3.0	100%	\$58.14	0.0	0%	\$0.00	0.0	0%	\$0.00

Local Public Agency

McHenry County DOT

County

McHenry

Section Number

Paulson Road - Task 4 & 1

Consultant / Subconsultant Name

Wang Engineering, Inc.

Job Number

PKE245507

**AVERAGE HOURLY PROJECT RATES
EXHIBIT D COST ESTIMATE OF CONSULTANT SERVICES (CECS) WORKSHEET**

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Task 4: Laboratory Testing			Task 4: Engineering			Task 4: Project Management											
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg			
Principal in Charge	86.00																		
Project Manager	69.30						1.5	100.00%	69.30										
Senior Engineer	69.30				4	15.09%	10.46												
Project Engineer/Project Geologist	42.76				10	37.74%	16.14												
Assistant Engineer/Assistant Geologist	33.52	2	100.00%	33.52	12	45.28%	15.18												
Laboratory Technician	36.26																		
Administrative Assistant	35.81																		
QC/QA Reviewer	81.61				0.5	1.89%	1.54												
TOTALS		2.0	100%	\$33.52	26.5	100%	\$43.31	1.5	100%	\$69.30	0.0	0%	\$0.00	0.0	0%	\$0.00	0.0	0%	\$0.00

Name: Paulson Rd over N Brch Kishwaukee River
RFP/PTB/PSB/Item: NA
Contract/Job: NA

Date: 01/06/2025
Wang No.: PKE245507 V03 - Task 13
Geotech

Task Description	Units	Unit Price	Extended Cost
DRILLING, SAMPLING & INSITU TESTING			
Drilling Coordination, Utilities Clearance, Site Access, Permitting	2.0 Hours	\$150.00 /Hour	\$300.00
Mobilization (ATV mounted)	0	\$1,700.00 /Each	\$0.00
Stand-by Hourly Rate	0.0 Hours	\$505.00 /Hour	\$0.00
<u>Drilling & Sampling - Hourly</u> (SPT, Penetrometer, Rimac, Visual Classification Included)			
Two-man crew - normal working hrs	8.0 Hours	\$500.00 /Hour	\$4,000.00
Two-man crew - overtime (2 hrs per day)	2.0 Hours	\$575.00 /Hour	\$1,150.00
<u>Hand Augering, Pavement/ Deck Coring & Testing</u>			
Two-man crew - normal working hrs	0.0 Hours	\$500.00 /Hour	\$0.00
Two-man crew - overtime (2 hrs per day)	0.0 Hours	\$575.00 /Hour	\$0.00
Asbestos content testing on deck cores	0 Tests	\$200.00 /Test	\$0.00
<u>Surveying of Boring Locations</u> (Two-man crew)			
	0.0 Hours	\$300.00 /Hour	\$0.00
<u>Other Insitu Tests</u>			
Pressuremeter testing	0 Days	\$3,750.00 /Day	\$0.00
Vane shear	0 Tests	\$325.00 /Test	\$0.00
Dilatometer testing	At Cost		\$0.00
Cone penetration testing (CPT/CPTu)	At Cost		\$0.00
Photoionization detector (PID)	1 Days	\$125.00 /Day	\$125.00
Double ring infiltrometer test (ASTM D3385)	0 Tests	\$1,500.00 /Test	\$0.00
Single ring infiltrometer test (Chicago Stormwater Ordinance)	0 Tests	\$750.00 /Test	\$0.00
<u>Boring Location Accessibility, Railroad Fees, State/County/Municipal Fees, Barge Drilling</u>			
Private utility determination	At Cost		\$0.00
Tree clearance	At Cost		\$0.00
Guardrail removal and replacement	At Cost		\$0.00
Dozer / equipment rental	At Cost		\$0.00
Railroad permitting	At Cost		\$0.00
Railroad protective insurance	At Cost		\$0.00
Railroad flagman	At Cost		\$0.00
Pavement opening permit	At Cost		\$0.00
State/municipal insurance and bonding	At Cost		\$0.00
Barge drilling on a navigable waterway	At Cost		\$0.00
			\$5,575.00

Name: Paulson Rd over N Brch Kishwaukee River
RFP/PTB/PSB/Item: NA
Contract/Job: NA

Date: 01/06/2025
Wang No.: PKE245507 V03 - Task 13
Geotech

Task Description			Units	Unit Price	Extended Cost
LABORATORY TESTING					
T265	D2216	Water Content	30 Tests	\$14.50 /Test	\$435.00
--	D7263	Unit Weight (Density)	0 Tests	\$45.00 /Test	\$0.00
T100	D854	Specific Gravity	0 Tests	\$82.00 /Test	\$0.00
--	D4972	pH of Soil	0 Tests	\$70.00 /Test	\$0.00
T267	D2974	Organic Content by LOI	0 Tests	\$74.00 /Test	\$0.00
T194	--	Organic Content by Wet Combustion	0 Tests	\$165.00 /Test	\$0.00
<u>Particle Size Distribution</u>					
T88	D422	Sieve Analysis	0 Tests	\$99.00 /Test	\$0.00
T88	D422	Combined Sieve and Hydrometer	2 Tests	\$162.00 /Test	\$324.00
--	D1140	Percent Finer than No. 200 Sieve	0 Tests	\$66.00 /Test	\$0.00
<u>Atterberg Limits</u>					
T89, T90	D4318	Liquid and Plastic Limits	2 Tests	\$99.00 /Test	\$198.00
T92	D427	Shrinkage Factors	0 Tests	\$120.00 /Test	\$0.00
<u>Classification of Soils</u>					
--	D2488	Visual Manual	0 Samples	\$24.00 /Sample	\$0.00
--	D2487	Unified Soil Classification System	0 Samples	\$261.00 /Sample	\$0.00
M145	--	AASHTO Classification	0 Samples	\$261.00 /Sample	\$0.00
--	--	USDA Classification	0 Samples	\$162.00 /Sample	\$0.00
<u>Soil Settlement, Swelling, and Collapse Potential</u>					
T216	D2435	One-Dimensional Consolidation	0 Tests	\$720.00 /Test	\$0.00
--	D4546	One-Dimensional Swell	0 Tests	\$700.00 /Test	\$0.00
--	D5333	Collapse Potential	0 Tests	\$390.00 /Test	\$0.00
<u>Shear Strength of Soil</u>					
		Rimac Unconfined Compressive Strength	0 Tests	\$21.00 /Test	\$0.00
T208	D2166	Unconfined Compressive Strength	0 Tests	\$105.00 /Test	\$0.00
T236	D3080	Direct Shear of Soils (3 points)	0 Tests	\$950.00 /Test	\$0.00
T296	D2850	UU Triaxial Compression (3 points)	0 Tests	\$440.00 /Test	\$0.00
T297	D4767	CU Triaxial Compression (3 points)	0 Tests	\$1,450.00 /Test	\$0.00
T297	D4767	CD Triaxial Compression (3 points)	0 Tests	\$1,450.00 /Test	\$0.00
	D7012	Peak Uniaxial Compressive Strength of Rock Core	0 Tests	\$245.00 /Test	\$0.00
<u>Laboratory Compaction Tests</u>					
T99	D698	Moisture-Density of Soils (Standard Effort)	0 Tests	\$260.00 /Test	\$0.00
T180	D1557	Moisture-Density of Soils (Modified Effort)	0 Tests	\$272.00 /Test	\$0.00
T193	D1883	California/Illinois Bearing Ratio (3 points)	0 Tests	\$1,220.00 /Test	\$0.00
<u>Coefficient of Permeability</u>					
T215	D2434	Hydraulic Conductivity (Constant Head)	0 Tests	\$596.00 /Test	\$0.00
--	D5084	Hydraulic Conductivity (Flexible Wall)	0 Tests	\$625.00 /Test	\$0.00
<u>Additional Sample Preparation Procedures</u>					
		Removal of Organic Matter	0 Samples	\$110.00 /Sample	\$0.00
		Extrusion & Preservation of Undisturbed Samples	0 Samples	\$36.00 /Sample	\$0.00
		Logging & Classification of Undisturbed Samples	0 Samples	\$82.00 /Sample	\$0.00
		Remolding and Trimming of Samples	0 Samples	\$78.00 /Sample	\$0.00
<u>Planting Soil Mix Testing</u>					
<i>Chemical Analyses & Mitigation Recommendations (300 g sample required)</i>					
		pH, CEC, Soluble Salts, OM, P, K, Other Nutrients	0 Tests	\$143.00 /Test	\$0.00
		Residual Chemicals, Herbicides Full Screen	0 Tests	\$812.00 /Test	\$0.00
<i>Mechanical Analyses & Mitigation Recommendations (1,000 g sample required)</i>					
T88	D422	Combined Sieve and Hydrometer	0 Tests	\$162.00 /Test	\$0.00
<u>Analytical Laboratory Services - for CCDD (200% fee for 3-day turn-around rush orders)</u>					
		pH Determination	0 No	\$16.00 /Each	\$0.00
		Volatile Organic Components (VOCs)	0 No	\$133.00 /Each	\$0.00
		SemiVOCs including PNA's	0 No	\$265.00 /Each	\$0.00
		PCBs	0 No	\$109.00 /Each	\$0.00
		TCL Metals (23)	0 No	\$223.00 /Each	\$0.00
		RCRA Total Metals (8)	0 No	\$127.00 /Each	\$0.00
		TCLP/SPLP Extraction	0 No	\$78.00 /Each	\$0.00
		TCLP/SPLP per each metal	0 No	\$34.00 /Each	\$0.00
		Herbicides	0 No	\$265.00 /Each	\$0.00
		Pesticides	0 No	\$151.00 /Each	\$0.00
<u>Corrosion Testing</u>					
		(Resistivity, Chlorides, pH, Redox, and Sulfates)	0 No	\$405.00 /Each	\$0.00
					\$957.00

Name: Paulson Rd over N Brch Kishwaukee River
RFP/PTB/PSB/Item: NA
Contract/Job: NA

Date: 01/06/2025
Wang No.: PKE245507 V03 - Task 13
Geotech

Task Description	Units	Unit Price	Extended Cost
TRAFFIC CONTROL			
<u>Expressway (1/2 mile)</u>			
Shoulder Closure	0.0 No.	\$1,060.00 /Each	\$0.00
One-lane Closure	0.0 No.	\$3,450.00 /Each	\$0.00
Two-lane Closure	0.0 No.	\$3,660.00 /Each	\$0.00
Three-lane Closure-Only Saturday	0.0 No.	\$4,050.00 /Each	\$0.00
Ramp Closure (Exit-Entrance)	0.0 No.	\$1,090.00 /Each	\$0.00
Additional 1/2 mile	0.0 No.	\$100.00 /Each	\$0.00
<u>Arterial (1/2 mile)</u>			
Shoulder Closure	0.0 No.	\$900.00 /Each	\$0.00
One-lane Closure	0.0 No.	\$1,000.00 /Each	\$0.00
Two-lane Closure	0.0 No.	\$1,100.00 /Each	\$0.00
Detour	0.0 No.	\$1,100.00 /Each	\$0.00
U-2	0.0 No.	\$1,300.00 /Each	\$0.00
Standard #701421 (Over 45mph)	0.0 No.	\$1,900.00 /Each	\$0.00
<u>Impact Attenuator with Driver</u>			
Port-to-Port	0.0 Hours	\$245.00 /Hour	\$0.00
<u>Roadway Flagmen (two-man crew)</u>			
Port-to-Port	10.0 Hours	\$260.00 /Hour	\$2,600.00
			\$2,600.00

Note: Prices are for weekday only (Monday through Friday). Weekend rates (Saturdays and Sundays) are higher and will be provided per project

FIELD VEHICLES & MILEAGE			
<u>Field Vehicle</u>			
Field Vehicle Mileage (>100 Miles per Day)	0.0 Miles	\$0.675 /Mile	\$0.00
Field Vehicle Daily (<100 Miles per Day)	2 Days	\$65.00 /Day	\$130.00
			\$130.00

OUT-OF-TOWN EXPENSES			
Per County	<u>Lodging</u>	0 Days	\$100.00 /Day
	<u>Per Diem</u>	0 Days	\$50.00 /Day
			\$0.00

SUMMARY	
DRILLING, SAMPLING & INSITU TESTING	\$5,575.00
LABORATORY TESTING	\$957.00
TRAFFIC CONTROL	\$2,600.00
FIELD VEHICLES & MILEAGE	\$130.00
OUT-OF-TOWN EXPENSES	\$0.00
	\$9,262.00

Name: Paulson Rd over N Brch Kishwaukee River
RFP/PTB/PSB/Item: NA
Contract/Job: NA

Date: 01/03/2025
Wang No.: PKE245507 V03 - Task 4
CCDD

Task Description	Units	Unit Price	Extended Cost
DRILLING, SAMPLING & INSITU TESTING			
Drilling Coordination, Utilities Clearance, Site Access, Permitting	0.0 Hours	\$150.00 /Hour	\$0.00
Mobilization (ATV mounted)	0	\$1,700.00 /Each	\$0.00
Stand-by Hourly Rate	0.0 Hours	\$505.00 /Hour	\$0.00
<i><u>Drilling & Sampling - Hourly (SPT, Penetrometer, Rimac, Visual Classification Included)</u></i>			
Two-man crew - normal working hrs	0.0 Hours	\$500.00 /Hour	\$0.00
Two-man crew - overtime (2 hrs per day)	0.0 Hours	\$575.00 /Hour	\$0.00
<i><u>Hand Augering, Pavement/ Deck Coring & Testing</u></i>			
Two-man crew - normal working hrs	0.0 Hours	\$500.00 /Hour	\$0.00
Two-man crew - overtime (2 hrs per day)	0.0 Hours	\$575.00 /Hour	\$0.00
Asbestos content testing on deck cores	0 Tests	\$200.00 /Test	\$0.00
<i><u>Surveying of Boring Locations (Two-man crew)</u></i>			
	0.0 Hours	\$300.00 /Hour	\$0.00
			\$0.00
LABORATORY TESTING			
<i><u>Analytical Laboratory Services - for CCDD (200% fee for 3-day turn-around rush orders)</u></i>			
pH Determination	6 No	\$19.00 /Each	\$114.00
Volatile Organic Components (VOCs)	2 No	\$133.00 /Each	\$266.00
SemiVOCs including PNA's	2 No	\$265.00 /Each	\$530.00
PCBs	2 No	\$109.00 /Each	\$218.00
TCL Metals (23)	0 No	\$223.00 /Each	\$0.00
RCRA Total Metals (8)	2 No	\$127.00 /Each	\$254.00
TCLP/SPLP Extraction	2 No	\$78.00 /Each	\$156.00
TCLP/SPLP per each metal	4 No	\$34.00 /Each	\$136.00
Herbicides	0 No	\$265.00 /Each	\$0.00
Pesticides	0 No	\$151.00 /Each	\$0.00
<i><u>Corrosion Testing</u></i>			
(Resistivity, Chlorides, pH, Redox, and Sulfates)	0 No	\$405.00 /Each	\$0.00
			\$1,674.00
TRAFFIC CONTROL			
			\$0.00
<i><u>FIELD VEHICLES & MILEAGE</u></i>			
<i><u>Field Vehicle</u></i>			
Field Vehicle Mileage (>100 Miles per Day)	0.0 Miles	\$0.675 /Mile	\$0.00
Field Vehicle Daily (<100 Miles per Day)	0 Days	\$65.00 /Day	\$0.00
			\$0.00
OUT-OF-TOWN EXPENSES			
Per County	<i>Lodging</i>	0 Days	\$100.00 /Day
	<i>Per Diem</i>	0 Days	\$50.00 /Day
			\$0.00
SUMMARY			
	<i>DRILLING, SAMPLING & INSITU TESTING</i>		\$0.00
	<i>LABORATORY TESTING</i>		\$1,674.00
	<i>TRAFFIC CONTROL</i>		\$0.00
	<i>FIELD VEHICLES & MILEAGE</i>		\$0.00
	<i>OUT-OF-TOWN EXPENSES</i>		\$0.00
			\$1,674.00



Exhibit F

Workhour Summary

CONSULTING
ENGINEERS



BLA, Inc.

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**Paulsen Road over North Branch Kishwaukee River
EXHIBIT F - Workhour Summary**

<u>Task and Description</u>	<u>Total Workhours</u>	<u>Prime</u>	<u>Jorgensen</u>	<u>Wang</u>
Task 1 Early Coordination and Data Review				
<i>Review Existing Data</i>	4	4		
<i>Site Visit</i>	8	8		
Subtotal:	12	12	0	0
Task 2 Supplemental Surveys and Right-of-Way				
<i>Horizontal and Vertical Control</i>	4	0	4	
<i>Topographic Survey</i>	8	8		
<i>Right-of-Way</i>	165	8	157	
<i>Plat of Resolution</i>	64	8	56	
Subtotal:	241	24	217	0
Task 3 Utility Coordination				
<i>Conflict Identification</i>	8	8		
<i>Relocation Assistance</i>	80	80		
Subtotal:	88	88	0	0
Task 4 Preliminary Site Investigation				
<i>Work Plan and Investigation</i>	0	0		
<i>Traffic Control</i>	0	0		
<i>LPC 662 or 663 Forms</i>	34	4		30
<i>PSI Report</i>	0	0		
Subtotal:	34	4	0	30
Task 5 Roadway Plans				
<i>Sheets (See Sheet Summary)</i>	746	746		
<i>Pavement Design</i>	4	4		
<i>Compensatory Storage Design</i>	48	48		
<i>Transportation Management Plan</i>	0			
Subtotal:	798	798	0	0
Task 6 Structural Plans				
<i>Sheets (See Sheet Summary)</i>	797	797		
<i>Load Rating Analysis</i>	90	90		
Subtotal:	887	887	0	0
Task 7 Quantity Calculations				
<i>Quantity Calculations</i>	160	160		
Subtotal:	160	160	0	0
Task 8 Specifications and Special Provisions				
<i>Specifications and Special Provisions</i>	120	120		
Subtotal:	120	120	0	0
Task 9 Construction Estimate of Cost and Estimate of Time				
<i>Estimate of Cost</i>	16	16		
<i>Schedule</i>	8	8		
<i>Estimate of Time</i>	8	8		
Subtotal:	32	32	0	0

**Paulsen Road over North Branch Kishwaukee River
EXHIBIT F - Workhour Summary**

		<u>Total</u>	<u>Prime</u>	<u>Jorgensen</u>	<u>Wang</u>
Task 10	<u>Task and Description</u>	<u>Workhours</u>			
	PS&E Submittals				
	<i>Preliminary</i>	16	16		
	<i>Pre-final</i>	12	12		
	<i>Final</i>	8	8		
	<i>Central Office</i>	8	8		
	<i>Disposition of Comments</i>	80	80		
	<i>Grading Surface Models</i>	0	0		
	Subtotal:	124	124	0	0
Task 11	Permitting and Environmental Coordination				
	<i>Wetland Mitigation</i>	24	24		
	<i>Section 404 Permit</i>	80	80		
	<i>MCP&D Stormwater Management Permit Application</i>	100	100		
	<i>MCP&D Stormwater Management Permit Certification</i>				
	<i>Preliminary Compensatory Storage Review</i>	16	16		
	<i>As-Built Topographic Survey</i>	99		99	
	<i>Compensatory Storage Evaluation and Submittal</i>	40	40		
	<i>MLSWCD Review</i>	16	16		
	<i>Floodway Construction Permit</i>	32	32		
	<i>NPDES Permit</i>	8	8		
	<i>ESR Addendum/Update</i>	8	8		
	<i>Bridge Bat Assessment</i>	8	8		
	<i>Incidental Take Authorization</i>	120	120		
	Subtotal:	551	452	99	0
Task 12	Phase III Activities				
	<i>Request for Information</i>	140	140		
	<i>Shop Drawing Review</i>	80	80		
	Subtotal:	220	220	0	0
Task 13	Supplemental Geotechnical Studies				
	<i>Subgrade Borings</i>	16	0		16
	<i>Laboratory Testing</i>	3	0		3
	<i>Geotechnical Report</i>	43	8		35
	Subtotal:	62	8	0	54

**Paulsen Road over North Branch Kishwaukee River
EXHIBIT F - Workhour Summary**

		<u>Total</u>			
<u>Task and Description</u>		<u>Workhours</u>	<u>Prime</u>	<u>Jorgensen</u>	<u>Wang</u>
Task 14	Meetings and Coordination				
	<i>LPA Initiation Meeting</i>	6	6		
	<i>IDOT Initiation Meeting</i>	6	6		
	<i>LPA Pre-final Plan-in-Hand Meeting</i>	8	8		
	<i>McHenry County P&D Meeting</i>	6	6		
	<i>USACE Meeting</i>	6	6		
	<i>MLSWCD Meeting</i>	6	6		
	<i>IDOT Detour Committee Meeting</i>	2	2		
	<i>IDOT Pre-construction Meeting</i>	8	8		
	<i>Property Owner Meetings</i>	12	12		
	Subtotal:	60	60	0	0
Task 15	Project Administration and Management				
	<i>Project Setup</i>	8	8		
	<i>Monthly Invoices and Progress Reports</i>	18	18		
	<i>Project Coordination and Monthly Calls</i>	18	18		
	<i>Project Schedule Monitoring</i>	18	18		
	Subtotal:	62	62	0	0
Task 16	Quality Assurance/Quality Control				
	<i>QA/QC</i>	100	100		
	Subtotal:	100	100	0	0
Total:		3,551	3,151	316	84

**Paulsen Road over North Branch Kishwaukee River
EXHIBIT F - Roadway and Structural Sheet Summary**

Task 5 - Roadway Plans	<u># Shts</u>	<u>Hrs/Sht</u>	<u>Total Hrs</u>
<i>Cover Sheet</i>	1	4	4
<i>Index of Sheets and Highway Standards</i>	1	4	4
<i>General Notes</i>	1	8	8
<i>Summary of Quantities</i>	5	8	40
<i>Schedule of Quantities</i>	5	8	40
<i>Typical Sections</i>	1	8	8
<i>Alignment, Ties and Benchmarks</i>	1	6	6
<i>Removal Plan</i>	2	32	64
<i>Plan & Profile</i>	2	40	80
<i>Drainage and Utility Plan and Profile</i>	2	40	80
<i>Detour Plan and Notes</i>	2	16	32
<i>Stormwater Pollution Prevention Plan and Notes</i>	1	24	24
<i>Soil Erosion and Sediment Control Plan and Details</i>	6	12	72
<i>In-Stream Guideline Details</i>	1	16	16
<i>Grading Plan – Bridge and Channel</i>	1	16	16
<i>Plat of Highways</i>	8	2	16
<i>Pavement Marking and Signing Plan</i>	2	12	24
<i>Landscaping Plan</i>	2	16	32
<i>Detail Sheets</i>	1	8	8
<i>District One Details</i>	6	2	12
<i>Cross Sections</i>	10	16	160
Subtotal:	61	-	746
Task 6 - Structural Plans	<u># Shts</u>	<u>Hrs/Sht</u>	<u>Total Hrs</u>
<i>General Plan & Elevation</i>	1	12	12
<i>General Data</i>	1	20	20
<i>Top of Deck Elevations</i>	3	22	66
<i>Top of Approach Slab Elevations</i>	2	15	30
<i>Superstructure Details</i>	2	60	120
<i>Diaphragm Details</i>	1	30	30
<i>Railing Details</i>	4	39	156
<i>Bridge Approach Slab Details</i>	3	37	111
<i>Framing Details</i>	1	40	40
<i>Beam Details</i>	2	48	96
<i>Abutment Details</i>	2	45	90
<i>Pile Details</i>	1	10	10
<i>Pipe Drain Details</i>	0	0	0
<i>Soil Borings</i>	2	5	10
<i>Existing Plans</i>	2	3	6
Subtotal:	27	-	797