


Local Agency County of McHenry	L O C A L A G E N C Y	 Illinois Department of Transportation Preliminary Engineering Services Agreement For Federal Participation	C O N S U L T A N T	Consultant Hampton, Lenzini & Renwick, Inc.
County McHenry County				Address 380 Shepard Drive
Section 14-00432-00-BR				City Elgin
Project No. BRS-0029(205)				State IL
Job No. P-91-144-15				Zip Code 60123
Contact Name/Phone/E-mail Address Wally Dittrich 815-334-4980 wrddittrich@co.mchenry.il.us				Contact Name/Phone/E-mail Address David Hinkston 847-697-6700 dhhinkston@hlreng.com

THIS AGREEMENT is made and entered into this _____ day of _____, _____ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

Project Description

Name O'Brien Road Route FAS 0029 Length 800 feet Structure No. 056-3118

Termini over Nippersink Creek

Description Phase I Engineering services to rehabilitate/reconstruct the O'Brien Road bridge over the Nippersink Creek.

Agreement Provisions

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.
2. To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
3. To complete the services herein described within 365 calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
4. The classifications of the employees used in the work should be consistent with the employee classifications and estimated man-hours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A 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.
5. That the ENGINEER is qualified technically and is entirely 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 herein.
6. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of work by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
7. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. 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 STATE.
8. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.

9. The undersigned certifies neither the ENGINEER nor I have:
- 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 me or the above ENGINEER) to solicit or secure this AGREEMENT,
 - 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
 - paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - have 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,
 - are not presently indicted 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
 - have not within a three-year period preceding this AGREEMENT had one or more public transactions (Federal, State or local) terminated for cause or default.
10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
11. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).
13. Scope of Services to be provided by the ENGINEER:
- Make such detailed surveys as are necessary for the planning and design of the PROJECT.
 - Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
 - Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
 - Design and/or approve cofferdams and superstructure shop drawings.
 - Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
 - Prepare the necessary environmental and planning documents including the Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
 - Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
 - Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
 - Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
 - Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
 - Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
 - Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

II. THE LA AGREES,

1. To furnish the ENGINEER all presently available survey data and information
2. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee CPFF = 14.5%[DL + R(DL) + OH(DL) + IHDC], or
 CPFF = 14.5%[DL + R(DL) + 1.4(DL) + IHDC], or
 CPFF = 14.5%[(2.3 + R)DL + IHDC]

Where: DL = Direct Labor
 IHDC = In House Direct Costs
 OH = Consultant Firm's Actual Overhead Factor
 R = Complexity Factor

Specific Rate (Pay per element)

Lump Sum _____

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

With Retainage

- a) **For the first 50% of completed work**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) **After 50% of the work is completed**, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) **Final Payment** – Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

Without Retainage

- a) **For progressive payments** – Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, 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 LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum o money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any 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 DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by 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 (31U.S.C. 3801 et seq.).

III. IT IS MUTALLY AGREED,

1. That no work shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
2. That tracings, 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 LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.

3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE 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.
4. 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 LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, 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 STATE; 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 STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
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 save harmless the LA, the STATE, and their officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
8. This AGREEMENT may be terminated by the LA 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 LA 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 LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
9. This certification is required by the Drug Free Workplace Act (30ILCS 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 State 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 or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other 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 a contract or grant of \$5,000 or more from the State, as defined in 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 the actions that will be taken against employees for violations of such prohibition.
 - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - (a) abide by the terms of the statement; and
 - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (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 maintaining 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 by,
- 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.
- g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.

10. 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 DOT assisted contracts. 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 LA deems appropriate.

Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
Hampton, Lenzini & Renwick, Inc.	36-2555986	\$116,283.75
Sub-Consultants:	TIN Number	Agreement Amount
Wang Engineering	36-3191909	\$22,000.95
Sub-Consultant Total:		22000.95
Prime Consultant Total:		116283.75
Total for all Work:		138284.70

Executed by the LA:

McHenry County

(Municipality/Township/County)

ATTEST:

By: _____

By: _____

Clerk

Title: _____

(SEAL)

Executed by the ENGINEER:

ATTEST:

By: _____

By: _____

Title: _____

Title: _____

Exhibit A - Preliminary Engineering

Route: O'Brien Road over Nippersink Creek
 Local Agency: McHenry County
 (Municipality/Township/County)
 Section: 14-00432-00-BR
 Project: BRS-0029(205)
 Job No.: P-91-144-15

*Firm's **approved rates** on file with IDOT'S Bureau of Accounting and Auditing:

Overhead Rate (OH) 155.00 %
 Complexity Factor (R) 0.00
 Calendar Days 365

Method of Compensation:

- Cost Plus Fixed Fee 1 14.5%[DL + R(DL) + OH(DL) + IHDC]
 Cost Plus Fixed Fee 2 14.5%[DL + R(DL) + 1.4(DL) + IHDC]
 Cost Plus Fixed Fee 3 14.5%[(2.3 + R)DL + IHDC]
 Specific Rate
 Lump Sum

Cost Estimate of Consultant's Services in Dollars

Element of Work	Employee Classification	Man-Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House Direct Costs (IHDC)	Profit	Total
Data Collection	AVG Rate	16.00	\$36.30	\$580.80	\$900.24	\$0.00	\$39.55	\$220.48	\$1,741.07
Field Survey	AVG Rate	90.00	\$28.66	\$2,579.40	\$3,998.07	\$0.00	\$158.20	\$976.67	\$7,712.34
Env. Survey	AVG Rate	197.00	\$27.73	\$5,462.81	\$8,467.35	\$0.00	\$379.10	\$2,074.84	\$16,384.10
Geotechnical	AVG Rate	5.00	\$35.69	\$178.45	\$276.59	\$22,000.95	\$0.00	\$65.98	\$22,521.97
Drainage Studies	AVG Rate	164.00	\$33.61	\$5,512.04	\$8,543.66	\$0.00	\$39.55	\$2,043.81	\$16,139.06
Structural Design	AVG Rate	202.00	\$30.85	\$6,231.70	\$9,659.13	\$0.00	\$0.00	\$2,304.17	\$18,195.00
Prel. Design Studies	AVG Rate	154.00	\$35.30	\$5,436.20	\$8,426.11	\$0.00	\$0.00	\$2,010.03	\$15,872.34
Proj. Devel. Report	AVG Rate	144.00	\$33.78	\$4,864.32	\$7,539.69	\$0.00	\$0.00	\$1,798.58	\$14,202.59
Public Involvement	AVG Rate	44.00	\$36.33	\$1,598.52	\$2,477.70	\$0.00	\$0.00	\$591.05	\$4,667.27
Meetings	AVG Rate	36.00	\$41.09	\$1,479.24	\$2,292.82	\$0.00	\$186.45	\$573.98	\$4,532.49
Land Acq.	AVG Rate	68.00	\$29.94	\$2,035.92	\$3,155.67	\$0.00	\$1,600.00	\$984.78	\$7,776.37
QA/QC	AVG Rate	24.00	\$51.39	\$1,233.36	\$1,911.70	\$0.00	\$0.00	\$456.03	\$3,601.09
Administration	AVG Rate	40.00	\$42.29	\$1,691.60	\$2,621.98	\$0.00	\$0.00	\$625.46	\$4,939.04
Totals		1,184.00		\$38,884.36	\$60,270.71	\$22,000.95	\$2,402.85	\$14,725.86	\$138,284.7

Exhibit A Supplement AVERAGE HOURLY PROJECT RATES

FIRM Hampton, Lenzini & Renwick, Inc.
PSB McHenry Co O'Brien Rd
PRIME/SUPPLEMENT Prime

DATE 10/07/14

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Data Collection			Field Survey			Environmental Survey			Geotechnical			Drainage Studies		
		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	70.00	0																	
ENGINEER 6	51.39	51	4.31%	2.21				2	2.22%	1.14	8	4.06%	2.09	1	20.00%	10.28			
ENGINEER 5	46.91	103	8.70%	4.08	4	25.00%	11.73				12	6.09%	2.86	1	20.00%	9.38	24	14.63%	6.87
ENGINEER 4	41.60	0																	
ENGINEER 3	37.80	139	11.74%	4.44							7	3.55%	1.34				60	36.59%	13.83
ENGINEER 2	35.28	300	25.34%	8.94	8	50.00%	17.64				32	16.24%	5.73						
ENGINEER 1	26.72	63	5.32%	1.42										3	60.00%	16.03	60	36.59%	9.78
TECHNICIAN 3	34.42	0																	
TECHNICIAN 2	27.75	182	15.37%	4.27	4	25.00%	6.94	24	26.67%	7.40							12	7.32%	2.03
TECHNICIAN 1	20.03	60	5.07%	1.02															
INTERN/TEMP	12.44	0																	
LAND ACQUISITION	38.52	0																	
SURVEY 2	33.48	72	6.08%	2.04				32	35.56%	11.90									
SURVEY 1	23.12	32	2.70%	0.62				32	35.56%	8.22									
ENVIRONMENTAL 2	27.94	74	6.25%	1.75							74	37.56%	10.49						
ENVIRONMENTAL 1	16.07	64	5.41%	0.87							64	32.49%	5.22						
ADMINISTRATION 2	43.49	20	1.69%	0.73															
ADMINISTRATION 1	22.65	24	2.03%	0.46													8	4.88%	1.11
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		1184	100%	\$32.84	16	100.00%	\$36.30	90	100%	\$28.66	197	100%	\$27.73	5	100%	\$35.69	164	100%	\$33.61

Exhibit A Supplement AVERAGE HOURLY PROJECT RATES

FIRM Hampton, Lenzini & Renwick, Inc.
PSB McHenry Co O'Brien Rd
PRIME/SUPPLEMENT Prime

DATE 10/07/14

SHEET 2 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Structural Design			Prel. Design Studies			Project Devel. Report			Public Involvement			Meetings			Land Acq.		
		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	70.00																		
ENGINEER 6	51.39	6	2.97%	1.53	6	3.90%	2.00										4	5.88%	3.02
ENGINEER 5	46.91				14	9.09%	4.26	16	11.11%	5.21	4	9.09%	4.26	18	50.00%	23.46			
ENGINEER 4	41.60																		
ENGINEER 3	37.80	48	23.76%	8.98	24	15.58%	5.89												
ENGINEER 2	35.28	44	21.78%	7.68	68	44.16%	15.58	80	55.56%	19.60	40	90.91%	32.07	18	50.00%	17.64			
ENGINEER 1	26.72																		
TECHNICIAN 3	34.42																		
TECHNICIAN 2	27.75	60	29.70%	8.24	42	27.27%	7.57	40	27.78%	7.71									
TECHNICIAN 1	20.03	40	19.80%	3.97													20	29.41%	5.89
INTERN/TEMP	12.44																		
LAND ACQUISITION	38.52																		
SURVEY 2	33.48																40	58.82%	19.69
SURVEY 1	23.12																		
ENVIRONMENTAL 2	27.94																		
ENVIRONMENTAL 1	16.07																		
ADMINISTRATION 2	43.49																		
ADMINISTRATION 1	22.65	4	1.98%	0.45				8	5.56%	1.26							4	5.88%	1.33
TOTALS		202	100%	\$30.85	154	100%	\$35.30	144	100%	\$33.78	44	100%	\$36.33	36	100%	\$41.09	68	100%	\$29.94

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME
PRIME/SUPPLEMENT

Hampton, Lenzini & Renwick, Inc.
Prime

DATE 10/07/14
PTB NO. McHenry Co O'Brien Rd

CONTRACT TERM 12 MONTHS
START DATE 3/1/2015
RAISE DATE 1/1/2016

OVERHEAD RATE 155.00%
COMPLEXITY FACTOR
% OF RAISE 3.00%

ESCALATION PER YEAR

3/1/2015 - 1/1/2016
10
12

1/2/2016 - 3/1/2016
2
12

= 83.33%
= 1.0050

17.17%

The total escalation for this project would be:

0.50%

PAYROLL RATES

FIRM NAME Hampton, Lenzini & Ren DATE 10/07/14
 PRIME/SUPPLEMENT Prime
 PSB NO. McHenry Co O'Brien Rd

ESCALATION FACTOR 0.50%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
PRINCIPAL	\$70.00	\$70.00
ENGINEER 6	\$51.13	\$51.39
ENGINEER 5	\$46.68	\$46.91
ENGINEER 4	\$41.39	\$41.60
ENGINEER 3	\$37.61	\$37.80
ENGINEER 2	\$35.10	\$35.28
ENGINEER 1	\$26.59	\$26.72
TECHNICIAN 3	\$34.25	\$34.42
TECHNICIAN 2	\$27.61	\$27.75
TECHNICIAN 1	\$19.93	\$20.03
INTERN/TEMP	\$12.38	\$12.44
LAND ACQUISITION	\$38.33	\$38.52
SURVEY 2	\$33.31	\$33.48
SURVEY 1	\$23.00	\$23.12
ENVIRONMENTAL 2	\$27.80	\$27.94
ENVIRONMENTAL 1	\$15.99	\$16.07
ADMINISTRATION 2	\$43.27	\$43.49
ADMINISTRATION 1	\$22.54	\$22.65
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00



**McHenry County Division of Transportation
O'Brien Road over Nippersink Creek
Phase I Engineering**

Scope of Work

I. PROJECT UNDERSTANDING

The McHenry County DOT intends to improve a bridge structure along O'Brien Road, near Hebron. The section includes a 3 span bridge that is in need of structural and geometric improvements. SN 056-3118, a two-lane, three-span, precast concrete channel beam bridge constructed in 1976, currently carries O'Brien Road over Nippersink Creek in McHenry County. This bridge has deteriorated in condition and needs to be replaced or rehabilitated. As part of this project, alternative superstructure options will be evaluated with the goal of developing a design that allows efficient construction, minimizes environmental impacts and makes the most efficient use of available Federal funding.

II. SCOPE OF SERVICES

The project limits include the O'Brien Road bridge over Nippersink Creek and its immediate roadway approaches – approximately 300 feet in each direction. The preferred improvement includes a superstructure replacement with a scour evaluation of the existing piers and spill-through abutments. Alternative superstructure replacement options as well as a complete replacement will be evaluated to determine the best design. HLR will provide Phase I Engineering services for this project. The design of the project will make every effort to stay within existing roadway right-of-way and to minimize environmental impacts to Nippersink Creek.

Task 1 – Data Collection and Project Start-up

HLR will conduct a visual survey of the site through a site visit. Project photos documenting the existing conditions and possible environmental issues will be taken. HLR will review and analyze the project-related data and records provided by McHenry County, including the crash data and utility plans. A design-level JULIE locate will be done to determine the utilities in the area; these utility companies will be contacted for more information.

Task 2 – Field Survey

HLR will conduct a topographic survey of the project limits including the bridge, its approaches, the Nippersink Creek stream banks and adjoining land. The wetland boundaries will also be surveyed from the wetland delineations.



The survey data will be in IL State Plane Coordinates East Zone NAD 83, and NAVD 88 vertical datum. We will establish accurate horizontal control points and benchmarks for use in construction.

Hydraulic Survey:

The hydraulic survey will include 15 stream cross sections as needed for analysis of the proposed bridge hydraulics and preparation of the Preliminary Bridge Design and Hydraulic Report, as required for review and approval by the IDOT Bureau of Bridges & Structures and the IDNR Office of Water Resources.

Right-of-way/Boundary Survey:

The right-of-way survey will include locating necessary property corners to establish boundaries for any areas needed for temporary access easements or permanent easements.

Plot Survey Data:

We will plot field data collected in this task in MicroStation CAD format and prepare base plan sheets for the design of the proposed bike trail and pedestrian bridge (if included in the design preferred alternate).

Task 3 – Environmental Surveys & Coordination

Wetland Delineation and Report

HLR will perform a formal wetland delineation of the proposed project area. The wetland delineations will be conducted to meet the requirements of Executive Order 11990, "Protection of Wetlands", Section 404 of the Federal Water Pollution Control Act as amended by the Clean Water Act (Corps of Engineers, Section 404 Permit), and Illinois Environmental Protection Agency (IEPA Section 401 Guidelines) regulations. These regulations pertain to the placement of fill or alterations of drainage within wetlands of any type and apply to private as well as publicly owned wetlands. The investigation will meet the requirements of these regulations by identifying the type, functions, and boundary of the involved wetlands.

"Wetlands" are defined by the U.S. Army Corps of Engineers (USACE) for jurisdictional purposes as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 323.3(c)).

HLR will provide the following scope of services for the wetland investigation for O'Brien Road over Nippersink Creek:

Map and Document Review. The following maps and documents will be reviewed prior to conducting the field investigation. Soils information will be reviewed to determine the soil types encountered during the delineation procedures. The maps reviewed and to be used include:



- U.S. Geological Survey Topographic Maps
- National Wetlands Inventory Maps
- McHenry County Soil Survey
- Hydric Soils of the United States
- Flood Insurance Rate Maps
- McHenry County ADID Maps

It appears that wetland areas may be located adjacent to the O'Brien Road bridge.

Field Investigation. The field investigation will be conducted by our environmental personnel who are experienced in Federal methods for conducting wetland delineations. Wetland delineations need to be conducted within the growing season that typically begins in April and lasts until October. Our staff will classify and define hydric soils, hydrophytic vegetation, and evidence of hydrology to determine if wetlands are present. The wetland perimeters will be surveyed by HLR's surveying department.

Wetlands found will be classified according to type using the "Classification of Wetlands and Deep Water Habitats of the United States" by Cowardin. Wetland boundaries will be defined in accordance with the *Corps of Engineers Wetlands Delineation Manual: Midwest Region*. This includes a soil investigation to determine the presence or absence of hydric soils and an analysis of the dominant plant species. Field observations will be made on any evidence indicating the hydrology of the area and on water sources that are supporting these wetlands. Functions of these wetlands will be evaluated from field observations.

In addition to the areas mapped as wetlands by the NWI map, all areas within the project limits will be investigated in the event that unmapped wetlands are present. As the NWI maps are developed to be used as a general planning tool, detailed field investigations are required to determine whether or not wetlands are present. All areas exhibiting wetland characteristics within the proposed project limits will be investigated.

A wetland delineation letter report will be prepared summarizing the findings of the fieldwork including mitigation recommendations and options. At this time, mitigation design will not be included in the scope of services. Included in the report will be the required wetland delineation data sheets that summarize the findings of the field investigation. The wetland delineations will be summarized in the Wetland Impact Evaluation Forms (WIE). These documents will be submitted to IDOT for review.

Agency Coordination

During early coordination, HLR will submit the Environmental Survey Request (ESR) to obtain the latest natural resource information from various regulatory agencies, both federal and state. This information will be critical for the permitting phase and will be requested through correspondence. An informational ECOCAT was completed and no endangered species were identified. A Section 7 consultation for federally listed threatened and



endangered species as required by the USFWS will be completed by HLR, this is required for the USACE permit.

Wetland Permitting

Once the delineations have been completed, USACE will be notified so that Jurisdictional Determinations can be completed. The Nippersink Creek and any associated wetlands would likely be considered jurisdictional waters of the United States. If impacts are proposed, permit applications will be submitted to USACE.

The following is a summary of permitting requirements. HLR will complete and submit the Joint Application form and other necessary information to obtain a permit from the Chicago District Corps of Engineers. The Joint Application will be simultaneously submitted to the following agencies:

- US Army Corps of Engineers
- US Fish & Wildlife Service
- Illinois Department of Natural Resources (IDNR)
- Illinois Environmental Protection Agency (IEPA)
- Illinois Historic Preservation Agency (IHPA)

The Nationwide Permits issued by the USACE contain a conditional Section 401 Water Quality Certification built into the permit. If this project qualifies under the Nationwide Permit program, no separate Section 401 review will be required. For the purposes of this proposal, we will assume Nationwide/Regional permit can be obtained for the project. If an Individual Permit is required, additional scope will be required.

At this time, no on-site mitigation design is included in the scope of services. It is recommended that wetland banking be utilized if wetland mitigation is necessary. HLR will assist McHenry County in finding a suitable wetland bank site if needed.

Special Waste Screening and Preliminary Environmental Site Assessment (PESA) Report

Prior to completing the Preliminary Environmental Site Assessment (PESA) for O'Brien Road, a Special Waste Assessment screening, including a Level I and Level II screening, will be completed. This includes ordering the Environmental Database Review summary.

If the Level I and II screenings lead to a determination that further action is required, a PESA will be recommended. The PESA will be prepared using historical and geological information. The specific methods used to conduct the assessment will be in accordance with A Manual for Conducting Preliminary Environmental Assessments for Illinois Department of Transportation (IDOT) Highway Projects (Erdmann et al., 1996), and the Bureau of Design and Environment (BDE) guidance, Special Waste Procedures, February 2011. The PESA will include a database search, review of historical records, an on-site evaluation, and review of other project conditions that may give us insight into the existing environmental conditions along the route. Once the review has been completed, a written

report will be completed and submitted as documentation to the on-site analysis. This report will accompany various site photographs, maps, and the above referenced documentation, which will be utilized to assist the project evaluation and any applicable recommendations.

Section 4(f) Lands

The area immediately adjacent to the O'Brien Road is considered Section 4(f) property. Coordination including a Section 4(f) deminimis report will be required.

A tree condition survey and tree report are not included in this scope of work. The topographic survey will include tree locations and species identification.

Task 4 – Geotechnical Analysis

Two structural borings as well as a boring near the stream bed will be completed by our subconsultant, Wang Engineering to determine the stream material for the scour critical analysis. A detailed scope of work by Wang is attached. Wang anticipates the need to conduct the borings on the O'Brien Road pavement, which will require temporary lane closures and traffic control. The bridge overlay material and bearing pads will be evaluated for asbestos materials. If these cannot be eliminated by review of existing plan details, the HMA overlay material will be sampled and tested for asbestos material. HLR's work efforts will include coordination of Wang's work with the requirements of the project and review of the results of the borings.

Task 5 – Hydraulic & Drainage Design

HLR will obtain the FEMA Category 6 Flood Insurance Study Data files in digital or printed format (USGS information is not necessary). HLR will conduct a field review of the site and then create an existing (baseline) conditions hydraulic model. This model will be used to evaluate the scour critical evaluation of the existing pile foundations and to model the hydraulics of alternative proposed bridge rehabilitation design. It is anticipated that the proposed deck replacement will not modify the existing hydraulic conditions. HLR will also develop a preliminary plan for the localized drainage on the roadway approaches.

Compensatory storage and stormwater detention requirements (if needed) will be developed based on the recommended bridge design alternate and will adhere to the McHenry County Stormwater Ordinance. HLR will develop and prepare the project Hydraulic Report in the IDOT BLR format and will summarize the results in the IDOT Waterway Information Table, coordinating this effort with McHenry County.

A Scour Evaluation will be completed for the proposed structure, including recommended riprap countermeasures. HLR will also develop a preliminary plan for the localized drainage along the roadway approaches. HLR will develop and prepare the Preliminary Bridge Design and Hydraulic Report in the IDOT BLR format. Results will be summarized in the IDOT Waterway Information Table, coordinating this effort with McHenry County.

Task 6 – Preliminary Structural Design & Bridge Condition Report

HLR will investigate alternate types of superstructures and make recommendations based on the economics, durability, aesthetics and compatibility to the site and stream conditions. It is anticipated that two bridge design alternates will be evaluated, including replacement and rehabilitation options. These include the following bridge types:

- 1) Reinforced Concrete Slab Bridge
- 2) Precast Prestressed Concrete Deck Beam Bridge

A Bridge Condition Report will be developed for the structure, outlining the current conditions and recommendations for improvement. The sufficiency rating for SN 056-3118 is below 50. This allows for federal aid funding for rehabilitation or replacement. The existing substructure appears to be suitable for use with a new superstructure. Scour countermeasures will be required to protect the pier piling from scour and stream degradation. The BCR will develop a preliminary superstructure design for the bridge, including the type, span and construction depth of the deck members.

HLR will coordinate these analyses with McHenry County and develop a recommendation that best meets the aforementioned needs. Type, Size and Location (TS&L) plan sheets will be prepared for the recommended bridge design for inclusion in the project development report (PDR).

Task 7 – Preliminary Design Studies

HLR will prepare the preliminary design of the geometry, profile and cross sections of the O'Brien Road approaches to the bridge. The design will be shown on plan and profile sheet exhibits in the PDR. HLR will prepare a maintenance-of-traffic plan, including a detour plan for the closure of the bridge during construction. The approach guardrail system will be evaluated. An engineer's opinion of probable cost for construction of the recommended improvement will be completed. A preliminary estimate of cost will be prepared for each improvement alternate to be considered in the development of the preferred alternate. The proposed detour route will be coordinated with the appropriate local agencies.

Task 8 – Project Development Report

HLR will prepare a Project Development Report (PDR) presenting the project's engineering and environmental analyses, design considerations and recommendations. The PDR will be prepared in the current IDOT BLR format and will include an estimate of cost for the recommended improvement, along with exhibits and documentation required to obtain design approval by IDOT.

Task 9 – Public Involvement

HLR will prepare letters of explanation and exhibits to be sent to property owners and other agencies directly impacted by the construction activities (assume 4 property owners and 2 local agencies). Letters offering a public hearing, as required for the detour, will be sent to all property owners and agencies impacted by the closure of the road for construction (not



just the adjacent properties). No public hearing or meeting is anticipated to be required for this project.

Task 10 – Meetings

HLR will prepare for, attend and write meeting minutes for a project kick-off meeting with County staff that will cover project schedule and submittal milestones. We will coordinate project activities with the McHenry County DOT on an ongoing basis via phone, fax, email and personal meetings. Following an initial kick-off meeting with McHenry County staff, HLR will meet to review and discuss analysis of bridge alternates, to review plans for the preferred alternate, and to review the PDR and plan package before submittal to IDOT. HLR also anticipates a kick-off meeting with IDOT, an FHWA coordination meeting at IDOT and a meeting with McHenry County Planning & Development.

Task 11 – Land Acquisition – Preparation of Plats/Legal Descriptions

HLR will order title commitments for the required parcels from Wheatland Title. These are included in the agreement as a direct cost. We will prepare statutory plans and legal descriptions for 4 parcels.

Task 12 – Quality Assurance / Quality Control

HLR will ensure that the final product developed by HLR and Wang Engineering meets the policy and intent of MCDOT and IDOT. HLR's engineers will conduct independent reviews of various components of the project to monitor compliance with policy and design standards and the goals of the McHenry County DOT. A copy of HLR's QA/QC plan will be provided for MCDOT's files. QA/QC reviewers include:

Chris McClure, P.E., C.F.M.	Hydraulic and Hydrologic Analyses
Michael Cima, P.E., S.E.	Structural Design, T.S. & L.
Diane Lukas, P.E.	Project Development Report

All directives received for the project will be documented in writing. Directives received in phone conversations will be documented on a Telephone Conversation Memo form. Directives received in meetings will be documented in meeting minutes. Documentation will be distributed to the MCDOT Project Manager, the project team and the project file.

Design criteria based on the appropriate IDOT and MCDOT guidelines will be developed early in the project. MCDOT will be advised of any design variances as the need for each is identified. A table of variances, if any, with an explanation of the need for each variance will be prepared for all elements that do not meet design criteria. This documentation will be reviewed with the MCDOT and will be submitted with the project development report.

Task 13 – Project Administration

This work effort includes the time needed by HLR for project-related payroll, progress reports, invoicing and filing. It also includes time needed by HLR to review and approve invoices and progress reports from Wang Engineering.



**McHenry County Division of Transportation
O'Brien Road over Nippersink Creek
Scope of Services & Work-Hour Detail**

Hours by Employee Classification

TASK DESCRIPTION	HOURS	DIRECT COSTS	Hours by Employee Classification														
			PR	E6	E5	E3	E2	E1	T2	T1	S2	S1	E2	E1	A2	A1	
I. DATA COLLECTION AND PROJECT START-UP																	
A. Conduct visual survey/site visit. Take project	12	\$39.55			4		4			4							
B. Obtain crash data for project from County.	1						1										
C. Conduct coordination with utilities to obtain information on locations of utilities to be affected by the project.	3						3										
II. FIELD SURVEY																	
A. Topographic survey, including horizontal & vertical control, bridge, approach roadways, wetland boundaries, stream survey and travel time.	64	\$158.20										32	32				
B. Survey crew management & data processing	2			2													
C. Geopak Alignments (TIN, cross sections, existing profile)	24									24							
III. ENVIRONMENTAL SURVEYS & COORDINATION																	
A. Prepare Environmental Survey Request and submit to IDOT	16				4		12										
B. Conduct wetland delineation and prepare wetland report and wetland impacts evaluation forms.	48	\$39.55		1	4		3							32	8		
C. Prepare & coordinate wetland permitting.	42						2							16	24		
D. Conduct Special Waste Assessment Screening, cost includes fee the Environmental Database search.	8	\$300.00														8	
E. Conduct Preliminary Environmental Site Assessment (PESA), if required by Special Waste Assessment Screening.	43	\$39.55		1			2							20	20		
F. Coordination with environmental regulatory agencies.	16			2	4									6	4		

TASK DESCRIPTION	HOURS	DIRECT COSTS	Hours by Employee Classification														
			PR	E6	E5	E3	E2	E1	T2	T1	S2	S1	E2	E1	A2	A1	
G. Preparation and coordination of De Minimis Section 4(f) documentation.	24			4				20									
IV. GEOTECHNICAL INVESTIGATIONS																	
A. Coordination with Wang Engineering and review of geotechnical report. Wang Engineering to conduct two structural borings and prepare a Structural Geotechnical Report.	5	\$22,000.95		1	1			3									
V. DRAINAGE / HYDRAULIC STUDIES																	
A. Prepare Preliminary Bridge Design and Hydraulic Report for review by MCDOT and IDOT.	82	\$39.55			8	30		30	6								8
B. Determine compensatory storage and stormwater detention requirements (if required); adhering the the McHenry County Stormwater Ordinance.	31				8	10		10	3								
C. Complete a scour evaluation, including recommended riprap countermeasures.	51				8	20		20	3								
VI. PRELIMINARY STRUCTURAL DESIGN & BRIDGE CONDITION REPORT																	
A. Analyze preliminary bridge design alternates, including evaluation of repair/rehabilitation vs complete replacement. Develop recommendation to be carried forward into Phase II.	61			2		14	10		20	15							
B. Prepare Type, Size & Location plan exhibit.	61			2		14	10		20	15							
C. Prepare Bridge Condition Report with exhibits and recommendations.	76			2		20	24		20	10							
D. Print, assemble and distribute Bridge Condition Report.	4																4
VII. PRELIMINARY DESIGN STUDIES																	
A. Prepare preliminary design of the geometry, profile and cross sections of the O'Brien Road approaches to the bridge.	34				2		8		24								
B. Evaluate existing approach guardrail system.	16				4		12										
C. Prepare a proposed pavement design.	6						6										
D. Prepare a maintenance of traffic plan.	40				4		18		18								

TASK	DESCRIPTION	HOURS	DIRECT COSTS	Hours by Employee Classification														
				PR	E6	E5	E3	E2	E1	T2	T1	S2	S1	E2	E1	A2	A1	
E.	Prepare preliminary estimate of costs for each alternate evaluated and an engineering opinion of probable cost for construction of the recommended improvement. Where more than one improvement alternate is possible, a preliminary estimate of cost will be prepared for each to be considered in the development of the preferred alternate.	58			6	4	24	24										
VIII. PROJECT DEVELOPMENT REPORT																		
A.	Prepare Project Development Report. Submit to MCDOT and IDOT for review and Design Approval.	144				16		80		40								8
IX. PUBLIC INVOLVEMENT																		
A.	Prepare letters of explanation to property owners and agencies directly impacted by construction activities.	30					2		28									
B.	Prepare letters offering a public hearing, as required by the proposed detour.	14					2		12									
X. MEETINGS																		
B.	Attend a project kick-off meeting with County staff to initiate work and review the project schedule and submittal milestones.	6	\$39.55				3		3									
A.	Prepare for and attend 2 project update meetings with MCDOT staff, an IDOT kick-off meeting and a meeting with McHenry County Planning & Development. (Assumes 4 meetings)	24	\$132.77				12		12									
B.	Prepare for, attend and write minutes for an IDOT/FHWA coordination meeting. (Assumes 1 meeting)	6	\$14.13				3		3									
XI. LAND ACQUISITION - PREPARATION OF PLATS AND LEGALS																		
A.	Obtain and review deeds for 4 parcels.	4	\$1,600.00		4													
B.	Prepare plats and legal descriptions for 4 parcels.	64										20	40					4
XII. QA / QC																		

		Hours by Employee Classification														
TASK DESCRIPTION	HOURS	DIRECT COSTS	PR	E6	E5	E3	E2	E1	T2	T1	S2	S1	E2	E1	A2	A1
A. Provide Quality Assurance / Quality Control reviews of all documents submitted to MCDOT and	24			24												
XIII. PROJECT ADMINISTRATION																
A. Project Administration (account set up, project schedule, invoicing, budget status)	40				10		10								20	
TOTAL LABOR HOURS, DIRECT COSTS =	1,184	\$24,403.80	0	51	103	132	307	63	182	60	72	32	74	64	20	24
* SERVICES BY OTHERS =		\$22,000.95														

Wang Engineering

Scope of Work

Package

October 02, 2014

Steve Megginson, P.E., S.E.
Vice President
Hampton Lenzini and Renwick, Inc.
3085 Stevenson Dr. Ste. 201
Springfield, IL 62703

Proposal for Geotechnical Engineering Services
O'Brien Road over Nippersink Creek (SN 056-3118)
McHenry County, Illinois
Wang P140931

Dear Mr. Megginson:

Wang Engineering, Inc. (Wang) is pleased to submit this proposal for geotechnical engineering service to support the rehabilitation or replacement of the existing structure carrying O'Brien Road over Nippersink Creek. The single-span structure is located in McHenry County, southwest of Hebron, about 2,500 feet west of the intersection of Johnson and O'Brien Roads.

SCOPE OF WORK

Wang understands the proposed engineering works consider either rehabilitation or in-kind replacement of the existing bridge. From the available geological data, the bedrock lies deeper than 100 feet below the ground surface (bgs). Thin alluvial sand and lacustrine clay deposits overlie a thicker glacial sandy to loamy, cobble-rich diamicton at the bridge site. We recommend drilling two 75-foot deep structure borings from the existing roadway pavement, behind the existing abutments. The boring termination depths and sampling program may be adjusted according to the actual subsurface conditions encountered during our investigation. Also Wang will collect a sample from the bridge deck core and send it to an IDOT prequalified laboratory to be tested for asbestos content. To accomplish these objectives, Wang will complete the following tasks:

Desk Study and Site Visit --- As per IDOT's "All Geotechnical Manual Users Memorandum 05.2" (AGMU 05.2, September 26, 2005, Sections 5.3.5.2 and 5.3.5.3) and "Geotechnical Manual" (1999), Wang will study and analyze existing roadway and foundation drawings, bridge condition or inspection reports, boring logs, and subsurface geological information to check for factors that might impact the proposed engineering works. Ground surface features, potential construction limitations and impacts on nearby structures, evidence of distress or deformation in the existing pavements and foundations, and signs of approach settlement will be examined during our site visit.

Geotechnical Drilling Services — Wang will provide equipment, labor, and associated materials to drill and sample two 75-foot deep structure borings. Traffic control with flagger will be required for carrying out the drilling operations. The boreholes will be advanced with hollow stem augers, and the soil will be sampled at 2.5-foot intervals to 30 feet bgs and at 5.0-foot intervals thereafter. Soil samples will be collected with split-barrel samplers according to AASHTO T 206, "Penetration Test and Split-Barrel Sampling of Soils." After drilling completion, the boreholes will be grouted.

Field Supervision — Prior to drilling, Wang will layout the borings and clear utilities through JULIE. A field soils engineer will monitor drilling activities, maintain daily field notes, log the soil borings, as well as receive, classify, and prepare soil samples for laboratory analysis. The field engineer will perform penetrometer and

Rimac unconfined compressive strength tests on cohesive soil samples; he will also observe the groundwater level in boreholes. As-drilled boring locations will be surveyed with a combination of mapping-grade GPS and transit level.

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

Engineering Analysis and Recommendations — The Structure Geotechnical Report (SGR) will include a detailed description of the project, field, and laboratory testing procedures and a characterization of the soil and groundwater conditions. Foundation type analyses; pile capacity and settlement evaluations; foundation design and construction recommendations; seismic site classification; slope and global stability analyses; as well as criteria and procedures for temporary excavation, dewatering, backfilling, and compaction will be provided. The SGR will be prepared as per the current IDOT requirements and guidelines. We assume a draft SGR will be submitted for review; the final SGR will address issues raised by reviewers. The report will also present a site location map, a geological map, a boring location plan, boring logs, and a summary of laboratory test results.

SCHEDULING

Wang will start the project expediently upon prior authorization to proceed. We anticipate that after utility clearance and access agreements two working days will be necessary to complete the drilling phase of the project. The laboratory testing program will proceed concurrently with the drilling activities and will be concluded within two weeks after drilling completion. The draft SGR will be submitted within three weeks after the Designer provides preliminary TSL drawings.

ESTIMATED COST

Wang proposes to provide the above tasks on time and expense basis according to the attached cost estimate. This cost estimate was prepared assuming the following conditions:

- Drilling unit costs are considered prevailing rate under the Prevailing Wage Act (820 ILCS 130/0.01);
- Traffic control with roadway flaggers is required to complete the borings on the O'Brien Road;
- No additional insurance beyond our standard coverage is required; and
- No hazardous materials are present on site.


Wang Engineering, Inc. appreciates the opportunity to present this cost estimate, and we look forward to working with Hampton Lenzini and Renwick, Inc. Please call us if you have any questions or if you require additional information regarding this proposal.

Sincerely,

WANG ENGINEERING, INC.



Liviu M. Iordache, PG
Geotechnical Department Manager



Corina T. Farez, PE, PG
Vice President

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME Wang Engineering, Inc.
PRIME/SUPPLEMENT Prime

DATE 10/02/14
PTB NO. NA

CONTRACT TERM 12 MONTHS
START DATE 3/1/2015
RAISE DATE 1/1/2016

OVERHEAD RATE 130.73%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

3/1/2015 - 1/1/2016
10

12

1/2/2016 - 3/1/2016
2

12

= 83.33%
= 1.0050

17.17%

0.50%

The total escalation for this project would be:

Subconsultants

FIRM NAME Wang Engineering, Inc.
PRIME/SUPPLEMENT Prime
PSB NO. NA

DATE 10/02/14

NAME	Direct Labor Total	Contribution to Prime Consultant
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0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00

Total 0.00 0.00

AVERAGE HOURLY PROJECT RATES

FIRM Wang Engineering, Inc.
 PSB NA
 PRIME/SUPPLEMENT Prime

DATE 10/02/14

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			Desk Study, Site Access &			Field Activities			Laboratory Testing			Data Analyses & Engineer			Report Preparation		
		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	70.00	0																	
Project Manager	56.84	5	5.05%	2.87															
Senior Engineer	56.84	15	15.15%	8.61										5	25.00%	14.21	10	32.26%	18.34
Project Engineer/Pro	34.48	34	34.34%	11.84	4	50.00%	17.24	5	16.67%	5.75				10	50.00%	17.24	15	48.39%	16.68
Assistant Engineer/A	24.12	38	38.38%	9.26	4	50.00%	12.06	25	83.33%	20.10				5	25.00%	6.03	4	12.90%	3.11
Laboratory Technicia	18.09	1	1.01%	0.18							1	100.00%	18.09						
Administrative Assist	29.52	4	4.04%	1.19															
QC/QA Reviewer	24.89	2	2.02%	0.50													2	6.45%	1.61
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TOTALS		99	100%	\$34.46	8	100.00%	\$29.30	30	100%	\$25.85	1	100%	\$18.09	20	100%	\$37.48	31	100%	\$39.74

AVERAGE HOURLY PROJECT RATES

FIRM Wang Engineering, Inc.
PSB NA
PRIME/SUPPLEMENT Prime

DATE 10/02/14

SHEET 2 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Project Management																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal in Charge	70.00																		
Project Manager	56.84	5	55.56%	31.58															
Senior Engineer	56.84																		
Project Engineer/Pro	34.48																		
Assistant Engineer/A	24.12																		
Laboratory Technicia	18.09																		
Administrative Assist	29.52	4	44.44%	13.12															
QC/QA Reviewer	24.89																		
TOTALS		9	100%	\$44.70	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

Name: O'Brien Road Bridge over Nippersink Creek
RFP/PTB/PSB/Item: NA
Contract/Job: NA

Date: 10/02/2014
Wang No.: P140931

Task Description	Units	Unit Price	Extended Cost
DRILLING, SAMPLING & INSITU TESTING			
Drilling Coordination	1.0 Hours	\$95.00 /Hour	\$95.00
Utilities Clearance, Site Access, Permitting	4.0 Hours	\$95.00 /Hour	\$380.00
Mobilization (Truck-mounted Drill Rig)	1	\$750.00 /Each	\$750.00
Drilling Crew Daily Travel & Support Vehicle	2 Days	\$155.00 /Day	\$310.00
Stand-by Hourly Rate - Truck-mounted Drill Rig (Two-Man Crew & Equipment)	0.0 Hours	\$310.00 /Hour	\$0.00
Mobilization (ATV-mounted Drill Rig)	0	\$1,250.00 /Each	\$0.00
ATV-mounted Drill Rig Daily Charge	0 Days	\$290.00 /Day	\$0.00
Drilling Crew Daily Travel & Support Vehicle	0 Days	\$155.00 /Day	\$0.00
Stand-by Hourly Rate - ATV-Mounted Drill Rig (Two-Man Crew & Equipment)	0.0 Hours	\$335.00 /Hour	\$0.00
Portable Water Tank	0 Days	\$145.00 /Day	\$0.00
Lighting for Night Field Activities	0 Nights	\$110.00 /Night	\$0.00
<u>Drilling and Sampling</u>			
<u>Structure Borings (two 50-foot deep borings)</u>			
<i>Drilling including split spoon sampling at 2.5-foot intervals to 30 feet and at 5-foot intervals thereafter (SPT, Penetrometer, Rimac, Visual Classification Included)</i>			
Between 0 and 75 Feet			
Normal Working Hours	0.0 Feet	\$30.00 /Foot	\$0.00
Restricted Hours (6 Hours)	150.0 Feet	\$34.00 /Foot	\$5,100.00
Night Work	0.0 Feet	\$32.00 /Foot	\$0.00
Between 75 and 100 Feet			
Normal Working Hours	0.0 Feet	\$32.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$38.00 /Foot	\$0.00
Night Work	0.0 Feet	\$33.00 /Foot	\$0.00
Between 100 and 125 Feet			
Normal Working Hours	0.0 Feet	\$38.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$49.00 /Foot	\$0.00
Night Work	0.0 Feet	\$44.00 /Foot	\$0.00
Between 125 and 150 Feet			
Normal Working Hours	0.0 Feet	\$44.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$56.00 /Foot	\$0.00
Night Work	0.0 Feet	\$53.00 /Foot	\$0.00
Additional Split-Spoon Sample	0.0 Samples	\$43.00 /Sample	\$0.00
<u>Roadway Borings</u>			
<i>Drilling including continuous split spoon sampling to 10 feet (SPT, Penetrometer, Visual Classification Included)</i>			
Continuous Sampling			
Normal Hours	0.0 Feet	\$30.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$33.50 /Foot	\$0.00
Night Hours	0.0 Feet	\$32.50 /Foot	\$0.00
<u>Shelby Tube Borings</u>			
<i>Blind drilling and Shelby tube sampling at selected depths</i>			
Drill without sampling			
Normal Working Hours	0.0 Feet	\$20.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$25.00 /Foot	\$0.00
Night Work	0.0 Feet	\$22.00 /Foot	\$0.00
Shelby Tube Samples			
Normal Working Hours	0 Samples	\$59.00 /Sample	\$0.00
Restricted Hours (6 Hours)	0 Samples	\$68.00 /Sample	\$0.00
Night Work	0 Samples	\$64.00 /Sample	\$0.00
<u>Rock Coring</u>			
Rock Coring Setup	0 Setups	\$350.00 /Setup	\$0.00
Set Casing Below 40 Feet			
Normal Working Hours	0.0 Feet	\$13.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$15.00 /Foot	\$0.00
Night Work	0.0 Feet	\$14.00 /Foot	\$0.00
Rock Coring			
Normal Working Hours	0.0 Feet	\$58.00 /Foot	\$0.00
Restricted Hours (6 Hours)	0.0 Feet	\$71.00 /Foot	\$0.00
Night Work	0.0 Feet	\$64.00 /Foot	\$0.00

Name: O'Brien Road Bridge over Nippersink Creek
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Date: 10/02/2014
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Task Description	Units	Unit Price	Extended Cost
<u>Drilling & Sampling - Hourly</u>			
Two Man Drilling Crew - normal working hours	Hours	\$335.00 /Hour	\$0.00
Two Man Drilling Crew - overtime (2 hours per day)	Hours	\$415.00 /Hour	\$0.00
<u>Pavement/ Deck Coring & Testing</u>			
<i>For 2-inch, 4-inch, and 6-inch diameter cores</i>			
Pavement/Deck Coring (Two-Man Crew and Equipment)			
Normal Working Hours	0.0 Hours	\$270.00 /Hour	\$0.00
Restricted Hours (6 Hours)	1.0 Hours	\$310.00 /Hour	\$310.00
Night Work	0.0 Hours	\$290.00 /Hour	\$0.00
Asbestos Content Testing			
On Deck Cores	1 Tests	\$160.00 /Test	\$160.00
<u>Hand Augering (Two-Man Crew and Equipment)</u>			
<i>Hand augering and soil sampling to 15 feet</i>			
Hand Augering			
Normal Working Hours	0.0 Hours	\$267.00 /Hour	\$0.00
Restricted Hours (6 Hours)	0.0 Hours	\$310.00 /Hour	\$0.00
Night Work	0.0 Hours	\$290.00 /Hour	\$0.00
<u>Piezometer/Monitoring Well Installation</u>			
2.0-inch Wells			
2" x 5' PVC Screen, .010 slot, sch 40	0 Pipes	\$28.00 /Pipe	\$0.00
2" x 10' PVC Screen, .010 slot, sch 40	0 Pipes	\$34.00 /Pipe	\$0.00
2" x 5' PVC Riser, sch 40	0 Pipes	\$18.00 /Pipe	\$0.00
2" x 10' PVC Riser, sch 40	0 Pipes	\$25.00 /Pipe	\$0.00
2" PVC Female Points	0 Points	\$9.00 /Point	\$0.00
2" PVC Slip Caps	0 Caps	\$2.00 /Cap	\$0.00
4" Manhole Cast Iron w/Twist Lock Lid	0 Lids	\$48.00 /Lid	\$0.00
2" x 5' Green Steel Standups	0 Standups	\$78.00 /Standup	\$0.00
4.0-inch Wells			
4" x 5' PVC Screen, .010 slot, sch 40	0 Pipes	\$46.00 /Pipe	\$0.00
4" x 10' PVC Screen, .010 slot, sch 40	0 Pipes	\$64.00 /Pipe	\$0.00
4" x 5' PVC Riser, sch 40	0 Pipes	\$34.00 /Pipe	\$0.00
4" x 10' PVC Riser, sch 40	0 Pipes	\$49.00 /Pipe	\$0.00
4" PVC Female Points	0 Points	\$14.00 /Point	\$0.00
4" PVC Slip Caps	0 Caps	\$14.00 /Cap	\$0.00
6.0-inch Wells			
6" x 5' PVC Screen, .010 slot, sch 40	0 Pipes	\$107.00 /Pipe	\$0.00
6" x 10' PVC Screen, .010 slot, sch 40	0 Pipes	\$158.00 /Pipe	\$0.00
6" x 5' PVC Riser, sch 40	0 Pipes	\$83.00 /Pipe	\$0.00
6" x 10' PVC Riser, sch 40	0 Pipes	\$131.00 /Pipe	\$0.00
6" PVC Female Points	0 Points	\$45.00 /Point	\$0.00
6" PVC Slip Caps	0 Caps	\$15.00 /Cap	\$0.00
Other Items			
#1B008 Masterlock, 130D	0 Locks	\$6.00 /Lock	\$0.00
55 gallon DOT Containment Drums	0 Drums	\$35.00 /Drum	\$0.00
Concrete--Quikcrete 5000	0 Bags	\$15.00 /Bag	\$0.00
3/8" Coated Bentonite Pellets, 5 Gal Bucket	0 Buckets	\$53.00 /Bucket	\$0.00
10/20 Silica Sand, 50 lb plastic bag	0 Bags	\$8.00 /Bag	\$0.00
<u>Labor - Hourly</u>			
Two Man Drilling Crew - normal working hours	0.0 Hours	\$335.00 /Hour	\$0.00
Two Man Drilling Crew - overtime (2 hours per day)	0.0 Hours	\$412.00 /Hour	\$0.00

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Task Description	Units	Unit Price	Extended Cost
<u>Barge Drilling on a Navigable Waterway</u>			
<i>Price may vary depending on size and extent of waterway</i>			
Barge and Crane Mobilization	At Cost		\$0.00
Barge and Crane Daily Charge	At Cost		\$0.00
Barge and Crane Demobilization	At Cost		\$0.00
<u>Specialized Insitu Testing</u>			
Pressuremeter Testing			
Mobilization	0	\$500.00 /Each	\$0.00
Testing	0 Days	\$2,000.00 /Day	\$0.00
Vane Shear	0 Tests	\$100.00 /Test	\$0.00
Dilatometer Testing	0 Tests	\$750.00 /Test	\$0.00
Piezometric Cone Penetrometer			
Mobilization (Truck Mounted CPT)	0	\$250.00 /Each	\$0.00
CPTU	0.0 Feet	\$22.00 /Foot	\$0.00
Seismic Wave Measurement	0 Tests	\$175.00 /Test	\$0.00
Pore Pressure Dissipation Test	0 Tests	\$550.00 /Test	\$0.00
Photoionization Detector (PID)	0 Days	\$400.00 /Day	\$0.00
Water Infiltration/Percolation Test			
Double Ring Infiltrometer Test (ASTM D3385)	0 Tests	\$1,000.00 /Test	\$0.00
Single Ring Infiltrometer Test (Chicago Stormwater Ordinanc	0 Tests	\$550.00 /Test	\$0.00
Note: Drilling crew will be billed as standby for the duration of pressuremeter, vane shear, and dilatometer testing			
<u>Borehole Abandonment and Surface Restoration</u>			
Backfilling Borehole			
Normal Working Hours	0.0 Feet	\$8.50 /Foot	\$0.00
Restricted Hours (6 Hours)	100.0 Feet	\$9.50 /Foot	\$950.00
Night Work	0.0 Feet	\$9.00 /Foot	\$0.00
Pavement/Deck Patching			
Asphalt	2 Patches	\$15.50 /Each	\$31.00
Concrete	0 Patches	\$15.50 /Each	\$0.00
Patching of Full Deck Coring	0 Patches	\$300.00 /Each	\$0.00
Soil Cutting Removal	0.0 Hours	\$300.00 /Hour	\$0.00
<u>Boring Location Accessibility</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
<u>Railroad Fees</u>			
Permitting	At Cost		\$0.00
Railroad Protective Insurance	At Cost		\$0.00
Railroad Flagman	At Cost		\$0.00
<u>State/County/Municipal Fees</u>			
Pavement Opening Permit	At Cost		\$0.00
Insurance and Bonding	At Cost		\$0.00
<u>Surveying of Boring Locations</u>			
Two-man crew	4.0 Hours	\$210.00 /Hour	\$840.00
			\$ 8,926.00

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Date: 10/02/2014
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Task Description		Units	Unit Price	Extended Cost	
LABORATORY TESTING					
<u>Soil Index Tests</u>					
T265	D2216	Water Content	42 Tests	\$8.00 /Test	\$336.00
--	D7263	Unit Weight (Density)	0 Tests	\$33.00 /Test	\$0.00
T100	D854	Specific Gravity	0 Tests	\$61.00 /Test	\$0.00
--	--	Void Ratio, Porosity, and Saturation	0 Tests	\$99.00 /Test	\$0.00
--	D4972	pH of Soil	0 Tests	\$54.00 /Test	\$0.00
T267	D2974	Organic Content by LOI	0 Tests	\$56.00 /Test	\$0.00
T194	--	Organic Content by Wet Combustion	0 Tests	\$122.00 /Test	\$0.00
<u>Particle Size Distribution</u>					
T88	D422	Sieve Analysis	0 Tests	\$71.00 /Test	\$0.00
T88	D422	Hydrometer Analysis	0 Tests	\$76.00 /Test	\$0.00
T88	D422	Combined Sieve and Hydrometer	2 Tests	\$114.00 /Test	\$228.00
--	D1140	Percent Finer than No. 200 Sieve	0 Tests	\$47.00 /Test	\$0.00
<u>Atterberg Limits</u>					
T89, T90	D4318	Liquid and Plastic Limits	2 Tests	\$71.00 /Test	\$142.00
T92	D427	Shrinkage Factors	0 Tests	\$84.00 /Test	\$0.00
<u>Classification of Soils</u>					
--	D2488	Visual Manual	0 Samples	\$17.00 /Sample	\$0.00
--	D2487	Unified Soil Classification System	0 Samples	\$180.00 /Sample	\$0.00
M145	--	AASHTO Classification	0 Samples	\$180.00 /Sample	\$0.00
--	--	USDA Classification	0 Samples	\$114.00 /Sample	\$0.00
<u>Soil Settlement, Swelling, and Collapse Potential</u>					
T216	D2435	One-Dimensional Consolidation	0 Tests	\$515.00 /Test	\$0.00
--	D4546	One-Dimensional Swell	0 Tests	\$500.00 /Test	\$0.00
--	D5333	Collapse Potential	0 Tests	\$275.00 /Test	\$0.00
<u>Shear Strength of Soil</u>					
		Hand Penetrometer	0 Tests	\$4.00 /Test	\$0.00
		Rimac Unconfined Compressive Strength	0 Tests	\$13.00 /Test	\$0.00
T208	D2166	Unconfined Compressive Strength	0 Tests	\$75.00 /Test	\$0.00
T236	D3080	Direct Shear of Soils (3 points)	0 Tests	\$660.00 /Test	\$0.00
T296	D2850	UU Triaxial Compression (3 points)	0 Tests	\$310.00 /Test	\$0.00
T297	D4767	CU Triaxial Compression (3 points)	0 Tests	\$960.00 /Test	\$0.00
T297	D4767	CD Triaxial Compression (3 points)	0 Tests	\$960.00 /Test	\$0.00
	D7012	Peak Uniaxial Compressive Strength of Rock Core	0 Tests	\$150.00 /Test	\$0.00
<u>Laboratory Compaction Tests</u>					
T99	D698	Moisture-Density of Soils (Standard Effort)	0 Tests	\$180.00 /Test	\$0.00
T180	D1557	Moisture-Density of Soils (Modified Effort)	0 Tests	\$190.00 /Test	\$0.00
T193	--	Illinois Bearing Ratio (1 point)	0 Tests	\$465.00 /Test	\$0.00
T193	D1883	California Bearing Ratio (3 points)	0 Tests	\$850.00 /Test	\$0.00
<u>Coefficient of Permeability</u>					
T215	D2434	Hydraulic Conductivity (Constant Head)	0 Tests	\$415.00 /Test	\$0.00
--	D5084	Hydraulic Conductivity (Flexible Wall)	0 Tests	\$435.00 /Test	\$0.00
<u>Additional Sample Preparation Procedures</u>					
		Removal of Organic Matter	0 Samples	\$80.00 /Sample	\$0.00
		Extrusion & Preservation of Undisturbed Samples	0 Samples	\$25.00 /Sample	\$0.00
		Logging & Classification of Undisturbed Samples	0 Samples	\$60.00 /Sample	\$0.00
		Remolding and Trimming of Samples	0 Samples	\$56.00 /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	\$100.00 /Test	\$0.00
		Residual Chemicals, Herbicides Full Screen	0 Tests	\$600.00 /Test	\$0.00
		<i>Mechanical Analyses & Mitigation Recommendations (1,000 g sample required)</i>			
T88	D422	Combined Sieve and Hydrometer	0 Tests	\$111.00 /Test	\$0.00
<u>Analytical Laboratory Services - for CCDD</u>					
		Volatile Organic Components (VOC)	0 No	\$185.00 /Each	\$0.00
		SemiVOC including PNA's	0 No	\$310.00 /Each	\$0.00
		PCB	0 No	\$124.00 /Each	\$0.00
		Total Metals	0 No	\$192.00 /Each	\$0.00
		PH Determination	0 No	\$20.00 /Each	\$0.00
					\$ 706.00

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Task Description	Units	Unit Price	Extended Cost
TRAFFIC CONTROL			
<i>Traffic Control - Work Zone Safety</i>			
Shoulder Closure (1/2 mile) - Expressway			
Daytime	0.0 No.	\$800.00 /Each	\$0.00
Night time	0.0 No.	\$900.00 /Each	\$0.00
Sunday	0.0 No.	\$1,200.00 /Each	\$0.00
Shoulder Closure (1/2 mile) - Arterial			
Daytime	0.0 No.	\$600.00 /Each	\$0.00
Night time	0.0 No.	\$750.00 /Each	\$0.00
Sunday	0.0 No.	\$1,200.00 /Each	\$0.00
Lane Closure (1 lane) (1/2 mile) - Expressway			
Daytime	0.0 No.	\$1,650.00 /Each	\$0.00
Night time	0.0 No.	\$1,800.00 /Each	\$0.00
Sunday	0.0 No.	\$2,100.00 /Each	\$0.00
Lane Closure (1 lane) (1/2 mile) - Arterial			
Daytime	0.0 No.	\$700.00 /Each	\$0.00
Night time	0.0 No.	\$850.00 /Each	\$0.00
Sunday	0.0 No.	\$1,200.00 /Each	\$0.00
Lane Closure (2 lane) - Expressway			
Daytime	0.0 No.	\$1,800.00 /Each	\$0.00
Night time	0.0 No.	\$1,950.00 /Each	\$0.00
Sunday	0.0 No.	\$2,250.00 /Each	\$0.00
Lane Closure (2 lane) - Arterial			
Daytime	0.0 No.	\$800.00 /Each	\$0.00
Night time	0.0 No.	\$952.00 /Each	\$0.00
Sunday	0.0 No.	\$1,200.00 /Each	\$0.00
Each additional 1/2 mile of closure	0.0 No.	\$100.00 /Each	\$0.00
Impact Attenuator			
Straight Time	0.0 Hours	\$175.00 /Hour	\$0.00
OT & Saturday	0.0 Hours	\$200.00 /Hour	\$0.00
Sunday	0.0 Hours	\$225.00 /Hour	\$0.00
Roadway Flagmen (two-man crew)			
Straight Time	16.0 Hours	\$150.00 /Hour	\$2,400.00
OT & Saturday	4.0 Hours	\$160.00 /Hour	\$640.00
Sunday	0.0 Hours	\$210.00 /Hour	\$0.00
			\$ 3,040.00
FIELD VEHICLES & MILEAGE			
<i>Field Vehicle</i>			
Field Vehicle Mileage (>100 Miles per Day)	0.0 Miles	\$0.565 /Mile	\$0.00
Field Vehicle Daily (<100 Miles per Day)	3 Days	\$65.00 /Day	\$195.00
Tolls	0 Tolls	\$1.00 /Toll	\$0.00
			\$ 195.00
OUT-OF-TOWN EXPENSES			
<i>Lodging</i>	0 Days	\$93.00 /Day	\$0.00
<i>Per Diem</i>	0 Days	\$47.00 /Day	\$0.00
			\$ -
REPORT REPRODUCTION			
<i>Report Reproduction</i>			
Copies, Black & White, 8.5" X 11"	0 No	\$0.20 /Each	\$0.00
Copies, Color, 8.5" X 11"	0 No	\$2.50 /Each	\$0.00
Copies, Reproduction or Reduction, 24" X 36"	0 No	\$10.00 /Each	\$0.00
			\$ -
SUMMARY			
<i>DRILLING, SAMPLING & INSITU TESTING</i>			\$8,926.00
<i>LABORATORY TESTING</i>			\$706.00
<i>TRAFFIC CONTROL</i>			\$3,040.00
<i>FIELD VEHICLES & MILEAGE</i>			\$195.00
<i>OUT-OF-TOWN EXPENSES</i>			\$0.00
<i>REPORT REPRODUCTION</i>			\$0.00
			\$ 12,867.00