



# Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 30, 2019

RECEIVED MAY 13 2019

Mr. Timothy Frenzer  
Village Clerk  
1200 Wilmette Avenue  
Wilmette, Illinois 60091

Subject: Village: Wilmette  
Section: 16-00199-00-RS  
Project: STP3(961)  
Job: D-91-028-17  
Preliminary Engineering Agreement  
Consultant: Transystems Corporation  
\$608,296.83 (federal share \$425,807.83) - Corrected Amount

Dear Mr. Frenzer:

The enclosed agreement is hereby approved by the department and authorized by the Federal Highway Administration on April 24, 2019.

The corrected amount is based on the following:

Proposed payroll is reduced by \$939.47 due to the use of rates that exceed those currently on file. Overhead is reduced by \$290.50 due to the payroll adjustment and limiting the statement of experience and financial condition rate to 150.72% for FYE 12/31/18. Profit is reduced by \$178.35 due to payroll and overhead adjustments.

Please contact Mohammed Hameed (Mohammed.Hameed@illinois.gov) if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Gregory S. Lupton".

Gregory S. Lupton, P.E.  
Local Project Implementation Engineer

Enclosure

cc: Brigitte A. Berger-Raish, Public Works Director  
Anthony Quigley Attn: Local Roads  
Attn: Project Control  
Transystems Corporation

Local Public Agency Village of Wilmette	LOCAL AGENCY	 <b>Illinois Department of Transportation</b>	CONSULTANT	Consultant TranSystems Corporation
County Cook				Address 1475 E. Woodfield Road Suite #600
Section 16-00199-00-RS				City Schaumburg
Project No. STP3(961)				State IL
Job No. D-91-028-17				Zip Code 60173
Contact Name/Phone/E-mail Address Dan Manis (847) 853-7602 manisd@wilmette.com				Contact Name/Phone/E-mail Address Todd Bright (847) 407-5271 tsbright@transystems.com

THIS AGREEMENT is made and entered into this 12<sup>TH</sup> day of FEBRUARY, 2019 between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LPA 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 1) Central Avenue 2) Wilmette Avenue Route 1) FAU 1296 2) FAU 1297 Length 1.37 mi Structure No. N/A

Termini 1) UPRR to Sheridan Road 2) UPRR to Lake Avenue

Description PE II Design of pavement reconstruction & resurfacing, sidewalk, driveway, drainage, water main, streetscaping, and traffic signal

### Agreement Provisions

#### I. THE ENGINEER AGREES,

- To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LPA for the proposed improvement herein described.
- To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LPA or STATE.
- To complete the services herein described within 540 calendar days from the date of the Notice to Proceed from the LPA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
- 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.
- 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.
- 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.
- 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.
- That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LPA.

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 LPA.
11. To submit all invoices to the LPA 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 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 LPA 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 LPA 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 LPA 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 LPA, 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 LPA, 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 LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA 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 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 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.

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.).
5. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Local Government Professional Services Selection Act 50 ILCS 510, the Brooks Act 40USC 11, and Procurement, Management, and Administration of Engineering and Design related Services (23 CFR part 172). Exhibit C is required to be completed with this agreement.

## III. IT IS MUTUALLY AGREED,

1. That no work shall be commenced by the ENGINEER prior to issuance by the LPA 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 LPA 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 LPA 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 LPA 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 LPA. 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 LPA 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 LPA, 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 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 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 LPA deems appropriate.
11. When the ENGINEER is requested to complete work outside the scope of the original AGREEMENT, a supplemental AGREEMENT will be required. Supplements will also be required for the addition or removal of subconsultants, direct costs, the use of previously unspecified staff, and other material changes to the original AGREEMENT.

#### Agreement Summary

Prime Consultant:	TIN Number	Agreement Amount
TranSystems Corporation	43-0839725	\$485,955.81

  

Sub-Consultants:	TIN Number	Agreement Amount
Teska	36-3051497	\$40,704.00
Baxter & Woodman	36-2845242	\$9,102.77
Jorgensen	36-3668574	\$12,093.88
Huff & Huff	36-3044842	\$28,835.71
Wang	36-3191909	\$33,012.98
Sub-Consultant Total:		\$123,749.34
Prime Consultant Total:		\$485,955.81
Total for all Work:		\$609,705.15

Executed by the LPA:

Village of Wilmette

(Municipality/Township/County)

ATTEST:

By:

VILLAGE

Clerk

(SEAL)

By:

Title:

VILLAGE PRESIDENT

Executed by the ENGINEER:

ATTEST:

By:

Title:

TranSystems Corporation

By:

Title:



# Exhibit A - Preliminary Engineering

Route: Central and Wilmette Avenue  
 Local Agency: Village of Wilmette, Cook County  
 (Municipality/Township/County)  
 Section: 16-00199-00-RS  
 Project: STP3(961)  
 Job No.: D-91-028-17

\*Firms approved rates on file with IDOT's  
 Bureau of Accounting and Auditing:

Overhead Rate (OH) 150.05 %  
 Complexity Factor (R) 0.00  
 Calendar Days 540

## 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
Project Coordination	Varies (attached)	266	\$ 53.09	\$ 14,121.94	\$ 21,189.97	\$ 1,447.20		\$ 5,120.23	\$ 41,879.34
Survey	Varies (attached)	8	\$ 44.36	\$ 354.88	\$ 532.50	\$ 12,093.88		\$ 128.67	\$ 13,109.93
Pre-Final Plans	Varies (attached)	2,187	\$ 46.13	\$ 100,886.31	\$ 151,379.91	\$ 38,561.93		\$ 36,578.60	\$ 327,406.75
Final Plans	Varies (attached)	941	\$ 46.28	\$ 43,549.48	\$ 65,345.99	\$ 622.90		\$ 15,789.84	\$ 125,308.22
Permits & Agreements	Varies (attached)	84	\$ 47.87	\$ 4,021.08	\$ 6,033.63	\$ 2,324.00		\$ 1,457.93	\$ 13,836.64
Geotechnical	Varies (attached)	10	\$ 57.97	\$ 579.70	\$ 869.84	\$ 33,012.98		\$ 210.18	\$ 34,672.70
Project Administration	Varies (attached)	26	\$ 69.71	\$ 1,812.46	\$ 2,719.60			\$ 657.15	\$ 5,189.20
Streetscape Plans	Varies (attached)	48	\$ 55.29	\$ 2,653.92	\$ 3,982.21	\$ 40,704.00		\$ 962.24	\$ 48,302.37
<b>Subconsultant Summary</b>									
Teska						\$ 40,704.00			
Baxter & Woodman						\$ 9,102.77			
Jorgensen						\$ 12,093.88			
Huff & Huff						\$ 28,835.71			
Wang						\$ 33,012.98			
					Subtotal	\$ 123,749.34			
					Outside DC	\$ 5,017.55			
<b>Totals</b>		3,570	\$ 47.05	\$ 167,979.77	\$ 252,053.64	\$ 128,766.89	\$ -	\$ 60,904.85	\$ 609,705.15

608,276.83

# AVERAGE HOURLY PROJECT RATES

**FIRM** TransSystems Corporation  
**PTB-ITEM#** Local  
**PRIME/SUPPLEMENT** Prime

DATE 7/16/2018

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Project Coordination			Survey			Pre-Final Plans			Final Plans			Permits & Agreements		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer 5 (E5)	70.00	80.0	2.24%	1.57	30	11.28%	7.89				32	1.46%	1.02	14	1.49%	1.04			
Engineer 4 (E4)	69.71	419.0	11.74%	8.18	76	28.57%	19.92				196	8.96%	6.25	85	9.03%	6.30			
Engineer 3 (E3)	57.97	676.0	18.94%	10.98							444	20.30%	11.77	198	21.04%	12.20	12	14.29%	9.96
Engineer 2 (E2)	44.36	1,107.0	31.01%	13.76	120	45.11%	20.01	8	100.00%	44.36	679	31.05%	13.77	288	30.61%	13.58	24	28.57%	16.56
Engineer 1 (E1)	35.04	1,264.0	35.41%	12.41	40	15.04%	5.27				820	37.49%	13.14	348	36.98%	12.96	12	14.29%	6.34
Planner 5 (P5)	61.20	0.0															36	42.86%	15.02
Planner 4 (P4)	61.16	0.0																	
Planner 3 (P3)	49.00	0.0																	
Architect 4 (AR4)	61.20	0.0																	
Architect 3 (AR3)	53.93	0.0																	
Architect 2 (AR2)	34.63	0.0																	
Architect 1 (AR1)	27.97	0.0																	
Environmental Scientist 4 (ES4)	61.20	0.0																	
Industry Specialist 3 (IS3)	53.04	0.0																	
Industry Specialist 2 (IS2)	38.94	0.0																	
Construction Services 4 (CS4)	51.84	0.0																	
Technician 3 (T3)	31.56	0.0																	
Technician 1 (T1)	21.05	0.0																	
Administrative 3 (A3)	48.47	0.0																	
Administrative 2 (A2)	37.52	0.0																	
Administrative 1 (A1)	24.38	24.0	0.67%	0.16							16	0.73%	0.18	8	0.85%	0.21			
		0.0																	
		0.0																	
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<b>TOTALS</b>		3570.0	100%	\$47.05	266.0	100.00%	\$53.09	8.0	100%	\$44.36	2187.0	100%	\$46.13	941.0	100%	\$46.28	84.0	100%	\$47.87





**Central Avenue Phase II Engineering**  
**Village of Wilmette**  
**Direct Cost Summary**

					<u><b>Total</b></u>
<b>1</b>	<u><b>Project Coordination</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	20 trips @	48 miles @ \$ 0.545 per mile		\$ 523.20
	Letter Size Copies	10 sheets @	6 copies @ \$ 0.10 per sheet	21 submittals	\$ 126.00
	Color Copies	5 sheets @	6 copies @ \$ 1.00 per sheet	21 submittals	\$ 630.00
	Full Size Copies	5 sheets @	2 copies @ \$ 0.80 per sheet	21 submittals	\$ 168.00
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		\$ -
	Legal Notices & Advertising				
			Subtotals		\$ 1,447.20
<b>2</b>	<u><b>Survey</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	0 trips @	48 miles @ \$ 0.545 per mile		\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet	0 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet	0 submittals	\$ -
	Full Size Copies	0 sheets @	0 copies @ \$ 0.80 per sheet	0 submittals	\$ -
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		
	Legal Notices & Advertising				
			Subtotals		\$ -
<b>3</b>	<u><b>Pre-Final Plans</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	1 trips @	10 miles @ \$ 0.545 per mile		\$ 5.45
	Letter Size Copies	200 sheets @	6 copies @ \$ 0.10 per sheet	1 submittals	\$ 120.00
	Color Copies	25 sheets @	6 copies @ \$ 1.00 per sheet	1 submittals	\$ 150.00
	Reduced Size Plans	190 sheets @	6 copies @ \$ 0.20 per sheet	1 submittals	\$ 228.00
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		6 deliveries @ \$ 20.00 per delivery		\$ 120.00
	Legal Notices & Advertising				
			Subtotals		\$ 623.45
<b>4</b>	<u><b>Final Plans</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	2 trips @	10 miles @ \$ 0.545 per mile		\$ 10.90
	Letter Size Copies	250 sheets @	6 copies @ \$ 0.10 per sheet	1 submittals	\$ 150.00
	Color Copies	15 sheets @	6 copies @ \$ 1.00 per sheet	1 submittals	\$ 90.00
	Full Size Plans	0 sheets @	0 copies @ \$ 0.80 per sheet	0 submittals	\$ -
	Reduced Size Plans	210 sheets @	6 copies @ \$ 0.20 per sheet	1 submittals	\$ 252.00
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		6 deliveries @ \$ 20.00 per delivery		\$ 120.00
	Legal Notices & Advertising				
			Subtotals		\$ 622.90



**Central Avenue Phase II Engineering**  
**Village of Wilmette**  
**Direct Cost Summary**

					<u><b>Total</b></u>
<b>5</b>	<u><b>Permit / Agreements</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	0 trips @	0 miles @ \$ 0.545 per mile		\$ -
	Letter Size Copies	250 sheets @	6 copies @ \$ 0.10 per sheet	2 submittals	\$ 300.00
	Color Copies	15 sheets @	6 copies @ \$ 1.00 per sheet	2 submittals	\$ 180.00
	Full Size Plans	210 sheets @	6 copies @ \$ 0.80 per sheet	1 submittals	\$ 1,008.00
	Reduced Size Plans	210 sheets @	6 copies @ \$ 0.20 per sheet	3 submittals	\$ 756.00
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		4 deliveries @ \$ 20.00 per delivery		\$ 80.00
	Legal Notices & Advertising				
			Subtotals		\$ 2,324.00
<b>6</b>	<u><b>Geotechnical</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	0 trips @	0 miles @ \$ 0.545 per mile		\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet	0 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet	0 submittals	\$ -
	Reduced Size Plans	0 sheets @	0 copies @ \$ 0.20 per sheet	0 submittals	\$ -
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		\$ -
	Legal Notices & Advertising				
			Subtotals		\$ -
<b>7</b>	<u><b>Project Administration</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	0 trips @	0 miles @ \$ 0.545 per mile		\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet	0 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet	0 submittals	\$ -
	Reduced Size Plans	0 sheets @	0 copies @ \$ 0.20 per sheet	0 submittals	\$ -
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		\$ -
	Legal Notices & Advertising				
			Subtotals		\$ -
<b>8</b>	<u><b>Streetscape Plans</b></u>				
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
	Mileage	0 trips @	0 miles @ \$ 0.545 per mile		\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet	0 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet	0 submittals	\$ -
	Reduced Size Plans	0 sheets @	0 copies @ \$ 0.20 per sheet	0 submittals	\$ -
	Mylar	0 sheets @	0 copies @ \$ 9.00 per sheet	0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		\$ -
	Legal Notices & Advertising				
			Subtotals		\$ -
			<b>Totals</b>		<b>\$ 5,017.55</b>





## AVERAGE HOURLY PROJECT RATES

FIRM	Baxter & Woodman, Inc.
PSB	N/A
PRIME/SUPPLEMENT	PRIME

DATE 07/09/18

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES				Green Infrastructure Assistance				Constructability Reviews							
		Hours	% Part.	Wgtd Avg		Hours	% Part.	Wgtd Avg		Hours	% Part.	Wgtd Avg		Hours	% Part.	Wgtd Avg	
Principal	70.00	0															
Sr. Engineer IV	65.29	0															
Sr. Engineer III	53.04	54	84.38%	44.76		30	75.00%	39.78		24	100.00%	53.04					
Sr. Engineer II	47.56	0															
Sr. Engineer I	42.41	0															
Engineer III	34.78	10	15.63%	5.43		10	25.00%	8.69									
Engineer II	30.47	0															
Engineer I	28.89	0															
Sr. Geologist I	52.69	0															
Engineer Tech V	51.00	0															
Engineer Tech IV	47.39	0															
Engineer Tech III	38.41	0															
Engineer Tech II	32.50	0															
Engineer Tech I	19.29	0															
Admin Support III	30.75	0															
Admin Support II	27.47	0															
Admin Support I	19.17	0															
		0															
		0															
		0															
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		0															
		0															
TOTALS		64	100%	\$50.19		40	100.00%	\$48.48		24	100%	\$53.04		0	0%	\$0.00	

FIRM	Jorgensen & Associates, Inc.	DATE	07/10/18
PSB		OVERHEAD RATE	1.5457
PRIME/SUPPLEMENT	Prime	COMPLEXITY FACTOR	0

[illegible]

Bureau of Design and Environment (Rev. 05/08/15)



FIRM  
PSB  
PRIME/SUPPLEMENT

SHEET 1 OF 2

PAYROLL		AVG HOURLY RATES	TOTAL PROJECT RATES			(1) Field-Topographic Survey			(2) Office-Compile Field Data			(3) Office-Crete Existing Topography Base Map			(4) Office-Crete T.I.N. & Contours			(5) QC/QA		
CLASSIFICATION			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/Officer		46.00	2	1.33%	0.61															
Supervisor, P.L.S.		43.00	6	4.00%	1.72															
Survey Party Chief, S.I.T.		27.50	57	38.00%	10.45	57	50.00%	13.75	1	12.50%	5.38							5	100.00%	43.00
Instrument Operator		21.50	57	38.00%	8.17	57	50.00%	10.75												
Cadd Supervisor		31.50	28	18.67%	5.88				7	87.50%	27.56	19	100.00%	31.50	2	100.00%	31.50			
			0																	
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TOTALS			150	100%	\$26.63	114	100.00%	\$24.50	8	100%	\$32.94	19	100%	\$31.50	2	100%	\$31.50	5	100%	\$43.00

FIRM	Jorgensen & Associates, Inc.
PSB	
PRIME/SUPPLEMENT	Prime

SHEET 2 OF 2

Printed 7/10/2018Bureau of Design and  
Environment (Rev. 05/08/15)



Route: Central Avenue  
Section: Green Bay Road to Sheridan Road  
County: Cook  
Job No.:

**Breakdown of  
In House Direct Costs**

Item

1. Field - Topographic Survey

a. Trips to project site - 7 each  
 $\pm 75 \text{ miles/trip} \times 7 \text{ trips} = \pm 525 \text{ miles}$   
 $\pm 525 \text{ miles @ } \$0.54/\text{mile} =$  \$ 283.50

6. Coordination Meetings

a. Meetings at TranSystems' office - 1 each  
 $\pm 60 \text{ miles/trip} \times 1 \text{ trip} = \pm 60 \text{ miles}$   
 $\pm 60 \text{ miles @ } \$0.54/\text{mile} =$  \$ 32.40

Total All Items \$ 315.90



Firm	Huff & Huff, Inc.
Route	Central Ave & Wilmette Ave.
Section	Green Bay-Sheridan/Lake
County	Cook
Job No.	
PTB & Item	

Complexity Factor 0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
PESA (Wilmette Ave) /									
PESA Update (Central)	50	1,587.65	2,963.19	60.83	668.69	480.00	0.00	5,760.36	19.98%
PSI / CCDD	75	2,382.02	4,445.81	321.78	1,036.69	6,195.00	7,100.00	21,481.31	74.50%
Project Management	2	87.53	163.36	0.00	36.38	0.00	0.00	287.26	1.00%
QAQC	8	398.16	743.13	0.00	165.49	0.00	0.00	1,306.78	4.53%
<b>TOTALS</b>	135	4,455.36	8,315.49	382.61	1,907.25	6,675.00	7,100.00	28,835.71	100.00%

BDE 025 (Rev. 2/06)



# Average Hourly Project Rates

Route Central Ave & Wilmette Ave.  
 Location Green Bay-Sheridan/Lake  
 County Cook  
 Job No.  
 B/Item

Consultant Huff & Huff, Inc. Date 7/9/2018

Sheet 1 OF 1

Payroll Classification	Total Project Rates			PESA (Wilmette Ave) / PESA U			PSI / CCDD			Project Management			QAQC			Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
	Avg Hourly Rates	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg								
Senior Principal	70.00	0																						
Principal	70.00	0																						
Associate Principal II	70.00	0																						
Associate Principal I	59.78	3	2.22%	1.33																				
Senior Consultant	67.85	0																						
Senior Geotechnical Consultant	63.50	0																						
Senior Project Manager III	60.60	0																						
Senior Project Manager II	46.18	0																						
Senior Landscape Architect	52.63	0																						
Senior Planning PM	50.40	0																						
Senior Geologist PM	43.76	7	5.19%	2.27																				
Senior Technical Specialist	45.09	0																						
Senior Scientist PM II	46.60	0																						
Senior Scientist PM I	39.84	0																						
Senior Technical Scientist	37.31	0																						
Senior CADD Specialist	34.09	7	5.19%	1.77																				
Scientist PM	42.67	0																						
Engineer PM II	42.66	0																						
Engineer PM I	36.54	0																						
Planning PM	35.50	0																						
Architect PM	37.92	0																						
Assistant PM Engineer II	39.41	0																						
Assistant PM Engineer I	35.09	58	42.96%	15.07																				
Assistant PM Scientist	28.27	58	42.96%	12.15																				
Engineer I	34.47	0																						
Scientist EI	27.25	0																						
Scientist E2	23.51	0																						
Administrative Managers	40.98	0																						
Senior Administrative Assistant	28.17	2	1.48%	0.42																				
Intern	16.67	0																						
<b>TOTALS</b>		135	100%	\$33.00	50	100%	\$31.75	75	100%	\$31.76	2	100%	\$43.76	8	100%	\$49.77	0	0%						\$0.00

**HUFF & HUFF, INC.**  
**SUMMARY OF INHOUSE DIRECT COSTS**  
Project: TranSystems - Wilmette Central/Streetscape

										<u><b>DIRECT</b></u>
<b>Task 01 - PESA/PESA Update</b>										
Trips - Company	65 miles	x	1	x	\$	0.545	=	\$	35.43	
tolls	1 ea	x	6	x	\$	1.500	=	\$	9.00	
Reproduction	2 sets	x	200	x	\$	0.03	=	\$	12.00	
Color copies	2 sets	x	20	x	\$	0.11	=	\$	4.40	
			0	x	\$	-	=	\$	-	
<b>Task Total</b>									<b>\$</b>	<b>60.83</b>
<b>Task 02 - PSI/CCDD</b>										
Trips - Company	65 miles	x	3	x	\$	0.545	=	\$	106.28	
Tolls			12	x	\$	1.50	=	\$	18.00	
Reproduction	2 sets	x	200	x	\$	0.03	=	\$	12.00	
Color copies	2 sets	x	25	x	\$	0.11	=	\$	5.50	
Field Kit	1 day	x	2	x	\$	30.00	=	\$	60.00	
pH Meter	1 day	x	2	x	\$	10.00	=	\$	20.00	
PID Meter	1 day	x	2	x	\$	50.00	=	\$	100.00	
			0	x	\$	-	=	\$	-	
<b>Task Total</b>									<b>\$</b>	<b>321.78</b>
<b>Task 03 - Project Management</b>										
<b>Task Total</b>									<b>\$</b>	<b>-</b>
<b>Task 04 - QAQC</b>										
<b>Task Total</b>									<b>\$</b>	<b>-</b>
<b>GRAND TOTAL</b>										<b>\$ 382.61</b>



**HUFF & HUFF, INC.**  
**SUMMARY OF OUTSIDE DIRECT COSTS**  
 Project: TranSystems - Wilmette Central/Streetscape

**OUTSIDE**

***Task 01 - PESA/PESA Update***

Aerials/Maps	2	x	\$	90.00	=	\$	180.00
Records Search	1	x	\$	300.00	=	\$	300.00
	0	x	\$	-	=	\$	-
<b>Task Total</b>							<b>\$ 480.00</b>

***Task 02 - PSI/CCDD***

VOCs	1	ea	x	5	x	\$	150.00	=	\$	750.00
BTEX	1	ea	x	15	x	\$	60.00	=	\$	900.00
PNAs	1	ea	x	20	x	\$	105.00	=	\$	2,100.00
RCRA total	1	ea	x	15	x	\$	85.00	=	\$	1,275.00
RCRA splp	1	ea	x	4	x	\$	100.00	=	\$	400.00
Pests/Herbs	1	ea	x	2	x	\$	225.00	=	\$	450.00
pH	1	ea	x	16	x	\$	20.00	=	\$	320.00
<b>Task Total</b>										<b>\$ 6,195.00</b>

***Task 03 - Project Management***

**Task Total      \$            -**

***Task 04 - QAQC***

**Task Total      \$            -**

---

**GRAND TOTAL      \$    6,675.00**

**HUFF & HUFF, INC.**  
**SUMMARY OF SERVICES BY OTHERS**  
Project: TranSystems - Wilmette Central/Streetscape

**OUTSIDE**

**Task 01 - PESA/PESA Update**

	<b>Task Total</b>	\$ -
--	-------------------	------

**Task 02 - PSI/CCDD**

Driller (day)	2 x	\$ 1,800.00	=	\$ 3,600.00
Traffic Control (day)	2 x	\$ 1,750.00	=	\$ 3,500.00
		<b>Task Total</b>		<b>\$ 7,100.00</b>

**Task 03 - Project Management**

SUB1	0 x	\$ -	=	\$ -
	0 x	\$ -	=	\$ -
		<b>Task Total</b>		<b>\$ -</b>

**Task 04 - QAQC**

	0 x		=	\$ -
	0 x		=	\$ -
		<b>Task Total</b>		<b>\$ -</b>

---

	<b>GRAND TOTAL</b>	<b>\$ 7,100.00</b>
--	--------------------	--------------------

FIRM  
PSB  
PRIME/

DATE 02/06/19

PRIME/SUPPLEMENT

DBE 100.00%



Wang Engineering, Inc.  
Central Avenue  
Prime

DATE 02/06/19

SHEET

PAYROLL		AVG HOURLY RATES	TOTAL PROJECT RATES			Field Investigations			Laboratory Testing			Engineering Analysis			Reporting			Project Management		
CLASSIFICATION			Hours	% Part.	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	
Principal in Charge			0																	
Project Manager			4	4.00%													4	100.00%	64.54	
Senior Engineer			8	8.00%																
Project Engineer/Project Geologist			26	26.00%	2	6.25%	2.46										4	9.52%	6.15	
Assistant Engineer/Assistant Geologist			60	60.00%	30	93.75%	25.54										12	28.57%	11.25	
Laboratory Technician			0														6	57.14%	15.57	
Administrative Assistant			0																	
C/QA Reviewer			2	2.00%										2	4.76%	3.33				
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**COST ESTIMATE  
FOR  
GEOTECHNICAL ENGINEERING SERVICES  
2018**



**Project Name:** Central Avenue Reconstruction  
**Project Location:** Village of Wilmette, Cook County, Illinois  
**Contract/Job:** NA

**Date:** 07/10/2018  
**Wang No.:** P180706

Task Description	Units	Unit Price	Extended Cost
<b><u>DRILLING, SAMPLING &amp; INSITU TESTING</u></b>			
Drilling Coordination, Utilities Clearance, Site Access, Permitting	6.0 Hours	\$98.76 /Hour	\$592.56
Mobilization	0	\$1,400.00 /Each	\$0.00
Stand-by Hourly Rate	0.0 Hours	\$400.00 /Hour	\$0.00
<b><u>Drilling &amp; Sampling - Hourly</u></b> (SPT, Penetrometer, Rimac, Visual Classification Included)			
Two-man crew - normal working hrs	30.0 Hours	\$400.00 /Hour	\$12,000.00
Two-man crew - overtime (2 hrs per day)	0.0 Hours	\$450.00 /Hour	\$0.00
Two-man crew and field supervisor- normal working hrs	0.0 Hours	\$480.00 /Hour	\$0.00
Two-man crew and field supervisor - overtime (2 hrs per day)	0.0 Hours	\$530.00 /Hour	\$0.00
<b><u>Hand Augering, Pavement/ Deck Coring &amp; Testing</u></b>			
Two-man crew and equipment	0.0 Hours	\$400.00 /Hour	\$0.00
Asbestos content testing on deck cores	0 Tests	\$175.00 /Test	\$0.00
<b><u>Surveying of Boring Locations</u></b> (Two-man crew)	0.0 Hours	\$205.00 /Hour	\$0.00
<b><u>Monitoring Well or Inclinometer Installation</u></b>			
<b><u>2.0- or 4-inch monitoring wells</u></b>			
Two-man crew - normal working hours	0.0 Hours	\$400.00 /Hour	\$0.00
Two-man crew - overtime (2 hours per day)	0.0 Hours	\$450.00 /Hour	\$0.00
<b><u>Inclinometer casing installation</u></b>			
Two-man drilling crew - normal working hours	0.0 Hours	\$400.00 /Hour	\$0.00
Two-man crew - overtime (2 hours per day)	0.0 Hours	\$450.00 /Hour	\$0.00
<b><u>Other items</u></b>			
55 gallon dot containment drums	0 Drums	\$42.00 /Drum	\$0.00
Digital datalogger and barometer	0 Each	\$1,300.00 /Each	\$0.00
Well and Casing Materials	At Cost		\$0.00
<b><u>Drilling and Sampling - per Foot</u></b> (SPT, Penetrometer, Rimac, Visual Classification Included)			
Between 0 and 75 feet	0.0 Feet	\$39.00 /Foot	\$0.00
Between 75 and 150 feet	0.0 Feet	\$55.00 /Foot	\$0.00
Drill without sampling	0.0 Feet	\$28.00 /Foot	\$0.00
Shelby tube samples	0 Samples	\$85.00 /Sample	\$0.00
Rock core setup	0 Setups	\$403.00 /Setup	\$0.00
Set casing and rock coring	0.0 Feet	\$85.00 /Foot	\$0.00
Borehole backfilling	0.0 Feet	\$11.00 /Foot	\$0.00
Pavement patching	0 Patches	\$22.00 /Each	\$0.00
Drilling crew daily travel	0 Days	\$200.00 /Day	\$0.00
<b><u>Other Insitu Tests</u></b>			
Pressuremeter testing	0 Days	\$2,500.00 /Day	\$0.00
Vane shear	0 Tests	\$200.00 /Test	\$0.00
Dilatometer testing	At Cost		\$0.00
Cone penetration testing (CPT/CPTu)	At Cost		\$0.00
Photoionization detector (PID)	0 Days	\$100.00 /Day	\$0.00
Double ring infiltrometer test (ASTM D3385)	0 Tests	\$1,117.00 /Test	\$0.00
Single ring infiltrometer test (Chicago Stormwater Ordinance)	1 Tests	\$608.00 /Test	\$608.00
<b><u>Boring Location Accessibility, Railroad Fees, State/County/Municipal Fees, Barge Drilling</u></b>			
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
			<b>\$13,200.56</b>

1145 N Main Street  
Lombard, IL 60148  
630 953-9928





**COST ESTIMATE  
FOR  
GEOTECHNICAL ENGINEERING SERVICES**



**Project Name:** Central Avenue Reconstruction  
**Project Location:** Village of Wilmette, Cook County, Illinois  
**Contract/Job:** NA

**2018**

**Date:** 07/10/2018  
**Wang No.:** P180706

Task Description			Units	Unit Price	Extended Cost
<b>LABORATORY TESTING</b>					
T265	D2216	Water Content	120 Tests	\$9.80 /Test	\$1,176.00
--	D7263	Unit Weight (Density)	0 Tests	\$36.00 /Test	\$0.00
T100	D854	Specific Gravity	0 Tests	\$66.00 /Test	\$0.00
--	D4972	pH of Soil	0 Tests	\$59.00 /Test	\$0.00
T267	D2974	Organic Content by LOI	4 Tests	\$60.00 /Test	\$240.00
T194	--	Organic Content by Wet Combustion	0 Tests	\$133.00 /Test	\$0.00
<b>Particle Size Distribution</b>					
T88	D422	Sieve Analysis	0 Tests	\$77.00 /Test	\$0.00
T88	D422	Combined Sieve and Hydrometer	6 Tests	\$122.00 /Test	\$732.00
--	D1140	Percent Finer than No. 200 Sieve	0 Tests	\$50.00 /Test	\$0.00
<b>Atterberg Limits</b>					
T89, T90	D4318	Liquid and Plastic Limits	6 Tests	\$77.00 /Test	\$462.00
T92	D427	Shrinkage Factors	0 Tests	\$90.00 /Test	\$0.00
<b>Classification of Soils</b>					
--	D2488	Visual Manual	0 Samples	\$19.00 /Sample	\$0.00
--	D2487	Unified Soil Classification System	0 Samples	\$195.00 /Sample	\$0.00
M145	--	AASHTO Classification	0 Samples	\$195.00 /Sample	\$0.00
--	--	USDA Classification	0 Samples	\$122.00 /Sample	\$0.00
<b>Soil Settlement, Swelling, and Collapse Potential</b>					
T216	D2435	One-Dimensional Consolidation	0 Tests	\$556.00 /Test	\$0.00
--	D4546	One-Dimensional Swell	0 Tests	\$540.00 /Test	\$0.00
--	D5333	Collapse Potential	0 Tests	\$300.00 /Test	\$0.00
<b>Shear Strength of Soil</b>					
		Rimac Unconfined Compressive Strength	0 Tests	\$14.50 /Test	\$0.00
T208	D2166	Unconfined Compressive Strength	0 Tests	\$81.00 /Test	\$0.00
T236	D3080	Direct Shear of Soils (3 points)	0 Tests	\$715.00 /Test	\$0.00
T296	D2850	UU Triaxial Compression (3 points)	0 Tests	\$335.00 /Test	\$0.00
T297	D4767	CU Triaxial Compression (3 points)	0 Tests	\$1,100.00 /Test	\$0.00
T297	D4767	CD Triaxial Compression (3 points)	0 Tests	\$1,100.00 /Test	\$0.00
	D7012	Peak Uniaxial Compressive Strength of Rock Core	0 Tests	\$163.00 /Test	\$0.00
<b>Laboratory Compaction Tests</b>					
T99	D698	Moisture-Density of Soils (Standard Effort)	0 Tests	\$200.00 /Test	\$0.00
T180	D1557	Moisture-Density of Soils (Modified Effort)	0 Tests	\$210.00 /Test	\$0.00
T193	--	Illinois Bearing Ratio (1 point)	0 Tests	\$500.00 /Test	\$0.00
T193	D1883	California Bearing Ratio (3 points)	0 Tests	\$920.00 /Test	\$0.00
<b>Coefficient of Permeability</b>					
T215	D2434	Hydraulic Conductivity (Constant Head)	0 Tests	\$450.00 /Test	\$0.00
--	D5084	Hydraulic Conductivity (Flexible Wall)	0 Tests	\$475.00 /Test	\$0.00
<b>Additional Sample Preparation Procedures</b>					
		Removal of Organic Matter	0 Samples	\$87.00 /Sample	\$0.00
		Extrusion & Preservation of Undisturbed Samples	0 Samples	\$28.00 /Sample	\$0.00
		Logging & Classification of Undisturbed Samples	0 Samples	\$65.00 /Sample	\$0.00
		Remolding and Trimming of Samples	0 Samples	\$62.00 /Sample	\$0.00
<b>Planting Soil Mix Testing</b>					
<i>Chemical Analyses &amp; Mitigation Recommendations (300 g sample required)</i>					
		pH, CEC, Soluble Salts, OM, P, K, Other Nutrients	0 Tests	\$115.00 /Test	\$0.00
		Residual Chemicals, Herbicides Full Screen	0 Tests	\$645.00 /Test	\$0.00
<i>Mechanical Analyses &amp; Mitigation Recommendations (1,000 g sample required)</i>					
T88	D422	Combined Sieve and Hydrometer	0 Tests	\$122.00 /Test	\$0.00
<b>Analytical Laboratory Services - for CCDD</b>					
		Volatile Organic Components (VOC)	0 No	\$200.00 /Each	\$0.00
		SemiVOC including PNA's	0 No	\$335.00 /Each	\$0.00
		PCB	0 No	\$135.00 /Each	\$0.00
		Total Metals	0 No	\$210.00 /Each	\$0.00
		PH Determination	0 No	\$23.00 /Each	\$0.00
<b>Corrosion Testing</b>					
		(Resistivity, Chlorides, pH, Redox, and Sulfates)	0 No	\$330.00 /Each	\$0.00
					<b>\$ 2,610.00</b>





COST ESTIMATE  
FOR  
GEOTECHNICAL ENGINEERING SERVICES



Project Name: Central Avenue Reconstruction  
Project Location: Village of Wilmette, Cook County, Illinois  
Contract/Job: NA

2018

Date: 07/10/2018  
Wang No.: P180706

Task Description	Units	Unit Price	Extended Cost
<b>TRAFFIC CONTROL</b>			
<u>Expressway (1/2 mile)</u>			
Shoulder Closure	0.0 No.	\$1,200.00 /Each	\$0.00
One-lane Closure	0.0 No.	\$3,200.00 /Each	\$0.00
Two-lane Closure	0.0 No.	\$3,400.00 /Each	\$0.00
Three-lane Closure	0.0 No.	\$3,650.00 /Each	\$0.00
Ramp Closure	0.0 No.	\$1,250.00 /Each	\$0.00
Additional 1/2 mile	0.0 No.	\$100.00 /Each	\$0.00
<u>Arterial (1/2 mile)</u>			
Shoulder Closure	No.	\$1,000.00 /Each	\$0.00
One-lane Closure	0.0 No.	\$1,100.00 /Each	\$0.00
Two-lane Closure	0.0 No.	\$1,200.00 /Each	\$0.00
Detour	0.0 No.	\$1,100.00 /Each	\$0.00
U-2	0.0 No.	\$1,200.00 /Each	\$0.00
Additional 1/2 mile	0.0 No.	\$100.00 /Each	\$0.00
<u>Impact Attenuator with Driver</u>			
Port-to-Port	0.0 Hours	\$235.00 /Hour	\$0.00
<u>Roadway Flagmen (two-man crew)</u>			
Port-to-Port	30.0 Hours	\$250.00 /Hour	\$7,500.00
			<b>\$ 7,500.00</b>
<b>FIELD VEHICLES &amp; MILEAGE</b>			
<u>Field Vehicle</u>			
Field Vehicle Mileage (>100 Miles per Day)	0.0 Miles	\$0.535 /Mile	\$0.00
Field Vehicle Daily (<100 Miles per Day)	4 Days	\$65.00 /Day	\$260.00
			<b>\$ 260.00</b>
<b>OUT-OF-TOWN EXPENSES</b>			
<u>Lodging</u>	0 Days	\$100.00 /Day	\$0.00
<u>Per Diem</u>	0 Days	\$50.00 /Day	\$0.00
			<b>\$ -</b>
<b>SUMMARY</b>			
<i>DRILLING, SAMPLING &amp; INSITU TESTING</i>			\$13,200.56
<i>LABORATORY TESTING</i>			\$2,610.00
<i>TRAFFIC CONTROL</i>			\$7,500.00
<i>FIELD VEHICLES &amp; MILEAGE</i>			\$260.00
<i>OUT-OF-TOWN EXPENSES</i>			\$0.00
			<b>\$ 23,570.56</b>