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**THE CITY OF BLUE ISLAND  
COOK COUNTY, ILLINOIS**

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**RESOLUTION  
NUMBER 2018-002**

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**A RESOLUTION FOR AN AGREEMENT WITH ROBINSON  
ENGINEERING AND THE CITY OF BLUE ISLAND  
FOR THE DIVISION STREET PRELIMINARY ENGINEERING  
SERVICE AGREEMENT (PHASE I AND PHASE II) AND  
RECONSTRUCTION PROJECT.**

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**DOMINGO F. VARGAS, Mayor  
Randy Heuser, City Clerk**

**DEXTER JOHNSON  
LETICIA VIEYRA  
NANCY RITA  
TOM HAWLEY  
BILL FAHRENWALD  
CANDACE CARR  
KENNETH PITTMAN**

**GEORGE POULOS  
FRED BILOTTO  
KEVIN DONAHUE  
ALECIA SLATTERY  
JAN OSTLING  
JAIRO FRAUSTO  
NANCY THOMPSON**

**Aldermen**

**RESOLUTION NO. 2018-002**

**A RESOLUTION FOR AN AGREEMENT WITH ROBINSON ENGINEERING AND  
THE CITY OF BLUE ISLAND FOR THE DIVISION STREET PRELIMINARY  
ENGINEERING SERVICE AGREEMENT  
(PHASE I AND PHASE II) AND RECONSTRUCTION PROJECT**

**WHEREAS**, the City of Blue Island has determined that there is a need to reconstruct Division Street from Vermont Street to Broadway Street; and

**WHEREAS**, the project has been approved by the Southwest Council of Mayors (SWCM) to receive Federal Surface Transportation Program (STP) funds for eighty percent (80%) of the Preliminary (Phase I and Phase II) Engineering costs (Federal share of \$116,000.00 and Local Match of \$29,000.00); and

**WHEREAS**, for the project the City of Blue Island must retain an engineer to perform certain professional services in the connection with the project, and

**WHEREAS**, the Preliminary Engineering Agreement for Federal Participation between Robinson Engineering and the City of Blue Island, Exhibit 1, attached hereto and hereby made a part hereof, defines the agreement between Robinson Engineering and the City of Blue of Island for the project.

**NOW, THEREFORE, BE IT RESOLVED**, by the City of Blue Island that the Preliminary Engineering Agreement for Federal Participation with Robinson Engineering, Exhibit 1, is approved; and

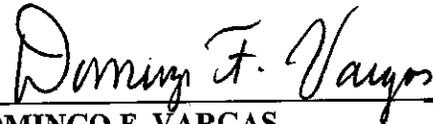
**BE IT FURTHER RESOLVED**, that this project is hereby designated as City Section Number 16-00169-00-RS, State Job Number P-91-332-16, and Federal Project Number M-84JH(653); and

**BE IT FURTHER RESOLVED**, that the Mayor is hereby authorized to execute said Agreement.

ADOPTED this 9th day of January, 2018, pursuant to a roll call vote as follows:

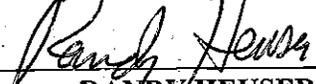
	YES	NO	ABSENT	PRESENT	ABSTAIN
Alderman Hawley	X				
Alderman Poulos			X		
Alderman Vieyra	X				
Alderman Bilotto	X				
Alderman Rita	X				
Alderman Donahue	X				
Alderman Carr	X				
Alderman Slattery	X				
Alderman Ostling	X				
Alderman Pittman	X				
Alderman Johnson	X				
Alderman Frausto	X				
Alderman Thompson	X				
Alderman Fahrenwald	X				
Mayor Vargas					
TOTAL	13		1		

APPROVED by the Mayor on January 9, 2018.



DOMINGO F. VARGAS  
MAYOR OF THE CITY OF BLUE ISLAND,  
COUNTY OF COOK AND STATE OF ILLINOIS

ATTESTED and Filed in my office this  
9th day of January, 2018.



RANDY HEUSER  
CITY CLERK

Local Agency	 <b>Illinois Department of Transportation</b>  <b>Preliminary Engineering Services Agreement For Federal Participation</b>	<b>C O N S U L T A N T</b>	Consultant
City of Blue Island			Robinson Engineering, Ltd.
County Cook			Address 17000 South Park Avenue
Section 16-00169-00-RS			City South Holland
Project No. 84JH(653)			State Illinois
Job No. P-91-332-16			Zip Code 60473
Contact Name/Phone/E-mail Address Michael Marzal mmarzal@cityofblueisland.org 708-396-7066	Contact Name/Phone/E-mail Address Erik Alvarez ealvarez@reltd.com 708-225-8217		

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2018 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	Division Street	Route	FAU 1090B	Length	0.34 Mi	Structure No.	N/A
Term	Vermont Street to Broadway Street						

Description: Phase I/II Preliminary Engineering for reconstruction of Division Street between Vermont Street and Broadway Street.

#### 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 500 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 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.).

## 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.





Exhibit A - Preliminary Engineering

Route: Division Street  
 Local Agency: City of Blue Island  
 Section: 16-00169-00-RS  
 Project: M-4003(455)  
 Job No.: P91-332-15

Overhead + Burden Rate 173.06%  
 Complexity Factor 0.00  
 Calendar Days 500  
 Overhead + Burden Rate 173.06%

Method of Compensation:  
 14.5%DL + R(DL) + OH(DL) + IHDC]  
 14.5%[DL + R(DL) + 1.4(DL) + IHDC]  
 14.5%[(2.3 + R)DL + IHDC]  
 [(2.8 + R)DL] + IHDC

Cost Plus Fixed Fee 1  
 Cost Plus Fixed Fee 2  
 Cost Plus Fixed Fee 3  
 Direct Labor Multiple  
 Specific Rate  
 Lump Sum

Cost Estimate of Consultant's Services in Dollars

Element of Work	Man-hours	Payroll Rate	Payroll Costs	Overhead & Burden 173.60%	Service By Others	In-House Direct Cost	Fixed Fee	Total	% of Grand Total
<b>PHASE I ENGINEERING</b>									
General Administration	89	\$41.48	\$3,691	\$6,388			\$1,461.57	\$11,541	7.96%
Field Services	144	\$33.69	\$4,852	\$8,396			\$1,920.98	\$15,169	10.46%
Project Dev. Report / NEPA	397	\$35.00	\$13,993	\$24,044			\$5,500.86	\$43,438	29.96%
Right of Way	66	\$36.05	\$2,379	\$4,118			\$942.09	\$7,439	5.13%
Public Involvement	72	\$34.66	\$2,495	\$4,319			\$988.06	\$7,802	5.38%
<b>PHASE II ENGINEERING</b>									
Plans, Specs & Estimates	384	\$35.11	\$13,483	\$23,334			\$5,338.44	\$42,155	29.08%
QC/QA	56	\$49.86	\$2,792	\$4,832			\$1,105.52	\$8,730	6.02%
Geocoin-1					\$8,096			\$8,096	5.58%
Direct Costs						\$612		\$612	0.42%
<b>Totals</b>	<b>1,208</b>	<b>\$36.08</b>	<b>\$ 43,587</b>	<b>\$ 75,431</b>	<b>\$ 8,096</b>	<b>\$ 612</b>	<b>\$ 17,258</b>	<b>\$ 144,983</b>	<b>100.00%</b>

ASSUMPTIONS:

1) Services by Others = Geocoin Professional Services







Firm: Robinson Engineering, Ltd.  
 Route: Division Street  
 Section: 16-00169-00-RS  
 County: Cook  
 Job No.: P91-332-16

Date: June 1, 2017

Complexity Factor (R): 0.00

FTB & Item: N/A

Description of Work	Man Hours													Total		
	PRIN ENGR2	SPM 2	SR ENGR 2	SR ENGR 1	ENGR PROJ ENGR 2	CHIEF LS	SPM 1	CAD MGR	CAD TECH 2	ENGR TECH 2	FLD SUPT.	CREW CHIEF	PROJ ADMIN		ADMIN 2	
PROJECT DEV. REPORT / NEPA																
Project Dev. Report / NEPA																
ESR Submittal					14.0											0.0
Exhibits			4.0		32.0				8.0							22.0
Draft Report		8.0		4.0	60.0		4.0		60.0						9.0	81.0
Photo Documentation															4.0	8.0
Typical Sections					7.0											15.0
NEPA Documentation		8.0			32.0			8.0								48.0
Cost Analysis					8.0											0.0
Evaluate Permitting				3.0												11.0
Final Report		8.0		8.0	30.0		8.0		30.0						8.0	92.0
																0.0
TOTAL HOURS (INDIVIDUAL DISCIPLIN	0.0	24.0	19.0	397.0	0.0	187.0	0.0	28.0	106.0	0.0	0.0	0.0	0.0	0.0	21.0	
TOTAL HOURS (ALL DISCIPLINES)	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0	397.0
PERCENTAGE DESIGN PLANS	0.00%	6.05%	4.79%	0.00%	47.10%	0.00%	3.02%	7.05%	26.70%	0.00%	0.00%	0.00%	0.00%	0.00%	5.29%	



**Illinois Department of Transportation**

Firm: Robinson Engineering, Ltd.

Route: Division Street

Section: 16-00169-00-RS

County: Cook

Job No.: P91-332-16

Date: June 1, 2017

Complexity Factor (R): 0.00

RIGHT OF WAY

PTB & Item: N/A

Description of Work	Man Hours													Total		
	PRIN ENGR2	SPM 2	SR ENGR 2	SR ENGR 1	ENGR PROJ ENGR 2	CHIEF LS	SPM 1	CAD MGR	CAD TECH 2	ENGR TECH 2	FLD SUPT	CREW CHIEF	PROJ ADMIN		ADMIN 2	
Right of Way																0.0
																0.0
																0.0
																0.0
Prepare Existing ROW file						16.0										16.0
Field locate section corners /property corners																16.0
																0.0
Centerline Documentation						8.0										8.0
																0.0
																0.0
																0.0
																0.0
																0.0
																0.0
TOTAL HOURS (INDIVIDUAL DISCIPLINE)	0.0	0.0	0.0	0.0	0.0	24.0	10.0	16.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	66.0
TOTAL HOURS (ALL DISCIPLINES)	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
PERCENTAGE DESIGN PLANS	0.00%	0.00%	0.00%	0.00%	0.00%	36.36%	15.15%	24.24%	0.00%	0.00%	0.00%	24.24%	0.00%	0.00%	0.00%	0.00%





Firm: Robinson Engineering, Ltd.  
 Route: Division Street  
 Section: 16-00169-00-RS  
 County: Cook  
 Job No.: P91-332-16  
 Date: June 1, 2017  
 Complexity Factor (R): 0.00

PTB & Item: N/A

Description of Work	Man Hours												Total		
	PRIN ENGR 2	SPM 2	SR ENGR 2	SR ENGR 1	ENGR PROJ/ENGR 2	CHIEF LS	SPM 1	CAD MGR	CAD TECH 2	ENGR TECH 2	FLD SUPT	CREW CHIEF		PROJ ADMIN	ADMIN 2
Plants, Specs & Estimates															
Cover, Summ. of Quan., Gen. Notes.		2.0	4.0		4.0					8.0					22.0
Typical Sections		2.0	8.0		8.0					8.0					30.0
Roadway Staging		4.0	20.0		16.0					24.0				8.0	76.0
Drainage & Utilities		2.0			2.0					4.0					10.0
Landscaping & Erosion Control					8.0					8.0					16.0
Pavement Marking & Signing			2.0	2.0	5.0		4.0			8.0				8.0	27.0
Maintenance of Traffic/Detour			8.0		5.0		4.0			8.0				8.0	33.0
Quantities		4.0			20.0		2.0			12.0					38.0
Specifications		2.0	2.0		4.0		4.0								24.0
Final		2.0	8.0		60.0		4.0			30.0					108.0
TOTAL HOURS (INDIVIDUAL DISCIPLINE)	0.0	14.0	56.0	8.0	140.0	0.0	18.0	14.0	110.0	0.0	0.0	0.0	0.0	24.0	364.0
TOTAL HOURS (ALL DISCIPLINES)	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	384.0	364.0
PERCENTAGE PROJECT MANAGEMENT	0.00%	3.65%	14.59%	2.08%	36.46%	0.00%	4.69%	3.65%	28.65%	0.00%	0.00%	0.00%	0.00%	6.25%	6.25%



Summary of Total Project Hours



Firm: Robinson Engineering, Ltd.  
 Route: Division Street  
 Section: 16-00169-00-RS  
 County: Cook  
 Job No.: P91-332-16  
 PTB & Item: N/A

Date: June 1, 2017

Complexity Factor (R): 0.00

Description of Work	Man Hours													Total		
	PRIN ENGR 2	SPM 2	SR	ENGR SR	ENGR SR	ENGR PROJ ENGR	CHIEFS	SPM 1	CAD MGR	CAD TECH	ENGR TECH	FLD SUPT	CREW CHIEF		PROJ ADMIN	ADMIN 2
General Administration	2.0	16.0	0.0	0.0	0.0	32.0	2.0	16.0	8.0	0.0	0.0	0.0	0.0	0.0	11.0	89.0
Field Services	0.0	2.0	8.0	0.0	0.0	10.0	0.0	0.0	16.0	36.0	0.0	8.0	64.0	0.0	0.0	144.0
Plans, Specs & Estimates	0.0	14.0	56.0	8.0	140.0	0.0	0.0	18.0	14.0	110.0	0.0	0.0	0.0	0.0	24.0	394.0
Project Dev. Report / NEPA	0.0	24.0	19.0	0.0	167.0	0.0	0.0	12.0	28.0	106.0	0.0	0.0	0.0	0.0	21.0	397.0
Railroad Facilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right of Way	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	10.0	16.0	0.0	0.0	16.0	0.0	0.0	66.0
Public Involvement	0.0	12.0	0.0	0.0	12.0	0.0	0.0	0.0	8.0	23.0	0.0	0.0	0.0	0.0	9.0	72.0
Structural	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Drainage & Utilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ROW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Plans, Specifications, Estimate	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
QC/QA	4.0	24.0	0.0	0.0	0.0	0.0	4.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0
SubTotals (AJR)	6.0	92.0	83.0	8.0	381.0	30.0	46.0	104.0	291.0	8.0	14.0	8.0	80.0	0.0	65.0	1208.0
TOTAL HOURS (DISCIPLINE)	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
TOTAL HOURS FOR PROJECT	0.50%	7.62%	6.87%	0.66%	31.54%	2.48%	3.81%	8.61%	24.09%	0.66%	1.16%	0.66%	6.62%	0.00%	5.38%	100.0%
PERCENTAGE OF TOTAL PROJECT																
TOTAL HOURS (DISCIPLINE)	6.0	92.0	83.0	8.0	381.0	30.0	46.0	104.0	291.0	8.0	14.0	8.0	80.0	0.0	65.0	1208.0
TOTAL HOURS FOR PROJECT	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
PERCENTAGE OF TOTAL PROJECT	0.50%	7.62%	6.87%	0.66%	31.54%	2.48%	3.81%	8.61%	24.09%	0.66%	1.16%	0.66%	6.62%	0.00%	5.38%	100.0%

**DIRECT EXPENSES**

EXPENSE	QUANTITY			Total	
	CLASSIFICATION	UNIT PRICE	UNIT		ESTIMATED QUANTITY
RIGHT OF ENTRY PERMIT	RR PERMIT		LS	0.0	\$0.00
RAILROAD FLAGGING	FLAGGING		HR	0.0	\$0.00
WILL-SOUTH COOK CO. SOIL & WATER PERMIT			EACH	0.0	\$0.00
Copies of Reports	12 Sets-40 Pages each	\$0.20	Pages	480	\$96.00
	4 - 24"x36" 12 sets	\$2.00	Sheets	48	\$96.00
	Public Exhibits - 4	\$5.00	Each	4	\$20.00
Utility Mailings	Plans - 24"x36" 10 sets	\$2.00	Sheets	200	\$400.00
CD with Final IDS	CD	\$4.00	Each		\$0.00
TOTAL					\$612.00

**EXHIBIT F  
AVERAGE HOURLY WORK RATES**

Firm: Robinson Engineering, Ltd. Date: June 1, 2017  
 Route: Division Street  
 Section: 16-00168-00-RS Complexity Factor (R): 0.00  
 County: Cook  
 Job No.: P91-332-16  
 PTB & Item: N/A

JOB CLASSIFICATION	SALARY		General Administration		Field Services		Plans, Specs & Estimates		Project Dev. Report / NEPA		Railroad Facilities		Right of Way	
	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate
PRINCIPAL ENGINEER 2	2.25%	\$73.95	1.66%	\$1.66	0.00%	\$0.60	0.00%	\$2.09	0.00%	\$3.46	0.00%	0.00%	0.00%	0.00%
SENIOR PROJECT MANAGER 2	17.98%	\$57.24	1.39%	\$10.29	0.00%	\$2.44	0.00%	\$6.40	4.79%	\$2.10	0.00%	0.00%	0.00%	0.00%
SENIOR ENGINEER 2	0.00%	\$43.87	5.56%	\$2.44	0.00%	\$0.71	0.00%	\$0.71	0.00%	\$16.57	0.00%	0.00%	0.00%	0.00%
SENIOR ENGINEER 1	0.00%	\$34.21	0.00%	\$12.65	6.94%	\$2.44	0.00%	\$12.82	47.10%	\$16.57	0.00%	0.00%	0.00%	0.00%
PROJECT ENGINEER 2	35.98%	\$35.17	2.25%	\$0.95	0.00%	\$0.00	0.00%	\$2.32	3.02%	\$1.50	0.00%	0.00%	36.36%	\$15.44
CHIEF LAND SURVEYOR	0.00%	\$42.45	17.98%	\$8.89	0.00%	\$4.39	0.00%	\$1.44	7.05%	\$2.79	0.00%	0.00%	15.15%	\$5.98
SENIOR PROJECT MANAGER 1	0.00%	\$49.46	0.00%	\$3.55	11.11%	\$7.01	28.65%	\$8.04	26.70%	\$7.49	0.00%	0.00%	24.24%	\$6.80
CAD MANAGER	0.00%	\$39.50	0.00%	\$0.91	5.56%	\$2.28	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
CAD TECHNOLOGIST 2	0.00%	\$28.05	0.00%	\$0.00	0.00%	\$14.95	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	\$7.83
ENGINEERING TECHNICIAN 2	0.00%	\$29.80	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
FIELD SUPERINTENDENT	2.25%	\$40.70	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
FIELD CREW CHIEF	0.00%	\$32.30	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
PROJECT ADMINISTRATION	0.00%	\$32.66	0.00%	\$2.57	0.00%	\$0.00	0.00%	\$1.30	5.29%	\$1.40	0.00%	0.00%	0.00%	0.00%
ADMINISTRATIVE 2	12.36%	\$20.78	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
AVERAGE PAYROLL RATE	100.00%	\$33.69	100.00%	\$41.48	100.00%	\$33.69	100.00%	\$35.11	100.00%	\$35.00	100.00%	\$0.00	100.00%	\$36.09

JOB CLASSIFICATION	SALARY		Public Involvement		Structural		Drainage & Utilities		ROW		Plans, Specifications, Estimate		QC/QA	
	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate	% Part	Wgt. Rate
PRINCIPAL ENGINEER 2	0.00%	\$73.95	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	7.14%	\$5.28
SENIOR PROJECT MANAGER 2	18.67%	\$57.24	0.00%	\$9.54	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	42.86%	\$24.53
SENIOR ENGINEER 2	0.00%	\$43.87	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
SENIOR ENGINEER 1	0.00%	\$34.21	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
PROJECT ENGINEER 2	16.67%	\$35.17	0.00%	\$5.86	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
CHIEF LAND SURVEYOR	0.00%	\$42.45	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	7.14%	\$3.03
SENIOR PROJECT MANAGER 1	0.00%	\$49.46	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
CAD MANAGER	11.11%	\$39.50	0.00%	\$4.39	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	35.71%	\$14.11
CAD TECHNOLOGIST 2	31.94%	\$28.05	0.00%	\$6.96	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
ENGINEERING TECHNICIAN 2	11.11%	\$29.80	0.00%	\$3.31	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
FIELD SUPERINTENDENT	0.00%	\$40.70	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	7.14%	\$2.91
FIELD CREW CHIEF	0.00%	\$32.30	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
PROJECT ADMINISTRATION	0.00%	\$32.66	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
ADMINISTRATIVE 2	12.50%	\$20.78	0.00%	\$2.60	0.00%	\$0.00	0.00%	\$0.00	0.00%	\$0.00	0.00%	0.00%	0.00%	0.00%
AVERAGE PAYROLL RATE	100.00%	\$33.66	100.00%	\$37.66	100.00%	\$30.00	100.00%	\$30.00	100.00%	\$30.00	100.00%	\$0.00	100.00%	\$49.85



Note: The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under state and federal law. Disclosure of this information is REQUIRED and shall be deemed as concurring with the payment amount specified above.

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