


Municipality	LOCAL AGENCY	 Illinois Department of Transportation	CONSULTANT	Name Strand Associates, Inc.
Township				Address 1170 S. Houbolt Road
County Lake County Division of Transportation		Preliminary Engineering Service Agreement For Non-Motor Fuel Tax Fund		City Joliet
Section 16-00170-13-CH				State Illinois

THIS AGREEMENT is made and entered into this 14th day of March, 2017 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Non-Motor Fuel Tax Funds, allotted to the LA ~~by the State of Illinois~~, under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely ~~or in part~~ to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Section Description

Name Winchester Road at Illinois Route 83 Intersection Improvement

Route _____ Length _____ Mi. _____ FT (Structure No. _____)

Termini _____

Description:

Design of a signalized intersection improvement project at Winchester Road and Illinois Route 83 in Lake County, Illinois.

Agreement Provisions

The Engineer Agrees ,

1. To perform or be responsible for the performance of the following engineering services for the LA, in connection with the proposed improvements herein before described, and checked below:
 - a. ☒ Make such detailed surveys as are necessary for the preparation of detailed roadway plans
 - b. ☐ Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
 - c. ☒ Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
 - d. ☒ 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.
 - e. ☒ Prepare Army Corps of Engineers Permit, **Lake County Stormwater Management Commission Permit**, ~~Department of Natural Resources Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.~~
 - f. ☐ Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
 - g. ☒ Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with **one (1) copy of each document in both hardcopy and electronic format**. Additional copies of any or all documents, if required, shall be furnished to the LA by the ENGINEER at the ENGINEER's actual cost for reproduction.
 - h. ☒ Furnish the LA with survey and drafts in **duplicate** of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
 - i. ☐ Assist the LA in the tabulation and interpretation of the contractors' proposals

- j. ☒ Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
 - k. ☐ Prepare the Project Development Report when required by the DEPARTMENT.
 - l. ☒ **Services as included and/or defined in the attached Scope of Services.**
2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies **of the LA** of the DEPARTMENT. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LA and the DEPARTMENT.
 3. To attend conferences at any reasonable time when requested to do so by representatives of the LA or the Department.
 4. In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.
 5. That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.
 6. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.

e L ree ,

1. To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:
 - a. ☐ A sum of money equal to _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
 - b. ☐ A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	(see note)
Under \$50,000	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.

"Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed. ***See the attached Cost Estimate of Consultant Services 152.34*1.145 = 174.43**

The Total Not-to-Exceed Contract Amount shall be \$313,059.76

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed. ~~in accordance with the following schedule:~~
- a. ~~Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by section 1 of the ENGINEER AGREES - to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.~~
- b. ~~Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.~~
- By Mutual agreement, partial payments, ~~not to exceed 90 percent of the amount earned~~, may be made from time to time as the work progresses.
4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LA shall reimburse the ENGINEER for the ENGINEER's actual costs plus 174.43 percent incurred up to the time the ENGINEER is notified in writing of such abandonment - "actual cost" being defined as in paragraph 2 of the LA AGREES.
5. That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, ~~after they have been approved by the DEPARTMENT~~, the LA will pay the ENGINEER for such changes on the basis of actual cost plus 174.43 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 2 of the LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

It i t a reed,

1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. 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 surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LA AGREES.
3. ~~That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.~~
4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LA:

ATTEST:

By

Lake County

Clerk

(Seal)

County of Lake

(Municipality/Township/County)

of the

State of Illinois, acting by and through its

County Board

By

Title

Chairman of the County Board

RECOMMENDED FOR EXECUTION

Paula J. Trigg, P.E.
Director of Transportation/County Engineer
Lake County

Executed by the ENGINEER:

ATTEST:

By

Title

Corporate Secretary

Strand Associates, Inc.

Engineering Firm

1170 South Houbolt Road

Street Address

Joliet, Illinois 60431

City, State

By

Title

SCOPE OF SERVICES CLARIFICATION–INTERSECTION IMPROVEMENTS

ENGINEER: Strand Associates, Inc.®
ROUTE: Winchester Road at Illinois 83
LOCAL AGENCY (LA): Lake County Division of Transportation
LA CONTACT: Phil Ruiz, P.E.

Project Understanding

Provide design services of a signalized intersection improvement project at Winchester Road and Illinois Route 83 in Lake County, Illinois.

It is anticipated that this project will use local funds and will follow Illinois Department of Transportation (DEPARTMENT) Bureau of Local Roads and Streets (BLRS) requirements and DEPARTMENT District One Traffic Signal Design Guidelines.

Scope of Services

The Scope of Services is as follows:

Administration

1. Track project schedule, budget, and task completion by the ENGINEER.
2. Develop and submit (to the LA) monthly invoices on LA-required forms.
3. Communicate with LA, DEPARTMENT, and subconsultants.

Topographical Survey and Base Map

1. See Claassen, White & Associates, P.C. scope of services.
2. Develop base map using Microstation and Geopak.

Soil Borings and Subsurface Soils Investigation

1. See SEECO Consultants Inc. Scope of Services.
2. Review Roadway Geotechnical Report prepared by SEECO Consultants, Inc.

Utility Communication

1. Review potential utility conflicts within the project limits.
2. Draft letters to utility companies explaining potential conflicts to include with prefinal and final plans.
3. Communicate design and scheduling changes for the project with utility companies.

Land Acquisition

1. See Claassen, White & Associates, P.C. scope of services for Plat of Highways and legal descriptions.
2. See Hampton, Lenzini and Renwick scope of services for land acquisition negotiation and appraisal services.
3. See Polach Appraisal Group, Inc. scope of services for appraisal review services.
4. See Wheatland Title Guaranty for scope of services for titles.

Environmental Surveys

1. Prepare and submit Environmental Survey Request and associated exhibits.
2. Complete DEPARTMENT Level 1 and 2 special waste screenings according to the DEPARTMENT's BLRS and Bureau of Design and Environment manuals.
3. Review Preliminary Environmental Site Assessment prepared by SEECO Consultants Inc.

4. See SEECO Consultants Inc. scope of services.

Permitting

1. The following permits will be prepared and submitted.
 - a. NPDES Stormwater Permit
 - b. Notice of Intent (IEPA)
 - c. DEPARTMENT Utility Permit
2. LA will perform the wetland mitigation and banking coordination.
3. Lake County Stormwater Management Commission (LCSMC) will perform the wetland delineations, preliminary jurisdictional determinations, and communicate with the US Army Corps of Engineers for a final determination on the jurisdiction of the wetlands
4. The project is anticipated to be processed through LCSMC as a Countywide Permit #1. Therefore, watershed and wetland permit applications to LCSMC will not be necessary.

Traffic Analysis and Traffic Signal Design

1. Submit request to DEPARTMENT for traffic signal warrants.
2. Perform twelve-hour traffic count and traffic signal warrant analysis.
3. Submit request to Chicago Metropolitan Agency for Planning for 2040 traffic volume projections.
4. Model existing and no-build future conditions with Synchro.
5. Model future conditions for up to three alternatives with Synchro.
6. Prepare and submit prefinal and final Intersection Design Study.
7. Prepare and submit prefinal and final permanent traffic signal design including PASSAGE details provided by the LA.

Roadway Design

1. Design roadway horizontal alignments and vertical profiles.
2. Design three alternative horizontal alignments for Winchester Road.
3. Prepare letter summarizing alternatives analysis of the three alignments.
4. Perform hot-mix asphalt pavement design.
5. Develop cross sections every 50 feet and at the centerlines of entrances, side streets, and crossroad culverts for the selected alternative.

Drainage Design

Design roadside ditches.

1. Design one cross culvert and two entrance culverts.
2. It is anticipated a rural cross section will be designed and storms sewer will not be designed.

Plans, Special Provisions, and Estimates

1. Plans
 - a. Provide plans in accordance with the DEPARTMENT's BLRS and Bureau of Design and Environment Manuals and the LA Plan Preparation Guidelines.

- b. Provide the following sheets:

Sheet Name	No. of Sheets
Cover Sheet	1
General Notes and Commitments	1
Summary of Quantities	6
Typical Sections	2
Schedule of Quantities	6
Alignment, Ties, and Benchmarks	7
Removal Plan	4
Plan and Profile Sheets	7
Maintenance of Traffic Plans	4
Temporary Erosion and Sediment Control	4
Drainage & Utility Plan and Profile	7
Signing Details	1
Pavement Markings and Signing Plan	4
Landscape and Permanent Erosion and Sediment Control	4
Traffic Signal Plans	3
PASSAGE (Provided by LA)	2
Soil Boring Details	1
DEPARTMENT District One Details	8
Roadway Cross Sections	62 sections

- c. Prepare plans at 1:20 scale. Plans will show proposed roadwork, removal items, pavement markings, and drainage improvements.
- d. Prepare final cross sections every 50 feet and at the centerlines of entrances, side streets, and crossroad culverts.
- e. Prepare and submit special provisions and opinion of probable construction cost at prefinal and final submittals. Prepare and submit opinion of probable construction cost and estimate of time at final submittal.

Quality Assurance / Quality Control

1. Provide quality control throughout the project.
2. Review major deliverables, including the plans, opinion of probable construction cost, special provisions and estimate of time at approximately 30 percent and 90 percent completion prior to each submittal.

Meetings and Agency Communication

1. Plan, prepare, and attend two progress meetings with the LA.
2. Plan, prepare, and attend one DEPARTMENT meeting.
3. Plan, prepare, and attend one meeting including Fremont Township, Village of Mundelein, Village of Grayslake, and Alter Group.
4. Attend one pre-construction meeting.
5. Prepare up to six request for information responses.

Winchester Road at IL Route 83 Intersection Improvements
Final PS&E due February 2019
Anticipated Letting March 2019

	2017												2018												2019												
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
Topographical Survey & Base Map																																					
Environmental Surveys																																					
Traffic Analysis and Traffic Signal Design																																					
Preliminary Plans																																					
LA / DEPARTMENT Review																																					
Permitting																																					
Roadway Prefinal Plans																																					
LA / DEPARTMENT Review																																					
Roadway Final PS&E																																					
Letting																																					

Preliminary Plan Submittal May 2018
Prefinal PS&E Submittal November 2018
Final PS&E Submittal February 2019
Project Letting March 2019

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME Strand Associates, Inc.
PRIME/SUPPLEMENT Prime

DATE 02/24/17
PTB NO. N/A

CONTRACT TERM 24 MONTHS
START DATE 4/1/2017
RAISE DATE 7/1/2017

OVERHEAD RATE 152.34%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

ESCALATION PER YEAR

4/1/2017 - 7/1/2017

3
24

= 12.50%
= 1.0378

7/2/2017 - 7/1/2018

12
24

51.50%

7/2/2018 - 4/1/2019

9
24

39.78%

The total escalation for this project would be:

3.78%

PAYROLL RATES

FIRM NAME	Strand Associates, Inc.	DATE
PRIME/SUPPLEMENT	Prime	
PSB NO.	N/A	

02/24/17

ESCALATION FACTOR 3.78%

[illegible]

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039

REV 12/04
02/24/17

FIRM
PSB
PRIME/SUPPLEMENT

Strand Associates, Inc.
N/A
Prime

OVERHEAD RATE
COMPLEXITY FACTOR

1.5234
0

DATE

DBE DROP BOX	ITEM	MANHOURS (A)	PAYROLL (B)	OVERHEAD & FRINGE BENF (C)	IN-HOUSE DIRECT COSTS (D)	FIXED FEE (E)	Outside Direct Costs (F)	SERVICES BY OTHERS (G)	DBE TOTAL (H)	TOTAL (B-G)	% OF GRAND TOTAL
	1. Administration	192	9,076.55	13,827.21	3,014.00	3,758.08	240.00			29,915.84	9.56%
	2. Topographical Survey & Base Map	8	256.97	391.47	187.50	121.21				957.14	0.31%
	3. Soil Borings and Subsurface Soils Investigation	4	152.02	231.59	5.00	56.35				444.96	0.14%
	4. Utility Communication	28	1,021.34	1,555.90	615.00	462.87	100.00			3,755.11	1.20%
	5. Land Acquisition				8.00	1.16				9.16	0.00%
	6. Environmental Surveys	44	1,830.50	2,788.58	727.00	775.18	124.20			6,245.46	1.99%
	7. Permitting	36	1,530.56	2,331.66	645.00	653.55	50.00			5,210.76	1.66%
	8. Traffic Analysis and Traffic Signal Design	223	8,098.71	12,337.58	2,936.50	3,389.05	168.40			26,930.25	8.60%
	9. Roadway Design	88	3,217.66	4,901.78	1,250.50	1,358.64				10,728.58	3.43%
	10. Drainage Design	40	1,589.05	2,420.76	680.50	680.10				5,370.41	1.72%
	11. Plans, Special Provisions, & Estimates	700	25,815.83	39,327.84	10,690.00	10,995.88				86,829.56	27.74%
	12. Quality Assurance / Quality Control	68	3,777.66	5,754.89	609.00	1,470.53				11,612.08	3.71%
	13. Meetings & Agency Communication	58	2,868.66	4,370.11	309.00	1,094.43	306.80			8,948.99	2.86%
DBE	Claassen, White & Associates, P.C. Plat of Highways & Topo Survey					1,371.14		27,422.81	27,422.81	28,793.95	9.20%
	SEECO Consultants, Inc. PESA					336.00		6,720.00		7,056.00	2.25%
	SEECO Consultants, Inc. Geotechnical					899.00		17,980.00		18,879.00	6.03%
DBE	HLR - Land Negotiations					1,575.00		31,500.00	31,500.00	33,075.00	10.57%
DBE	HLR - Appraisal Services					700.00		14,000.00	14,000.00	14,700.00	4.70%
	Polach - Appraisal Reviews					297.50		5,950.00		6,247.50	2.00%
	Wheatland Title - Titles					350.00		7,000.00		7,350.00	2.35%
	TOTALS	1489	59,235.51	90,239.38	21,677.00	30,345.66	989.40	110,572.81	72,922.81	313,059.76	100.00%

DBE 23.29%

PREPARED BY THE AGREEMENTS UNIT

Printed 2/24/2017 9:10 AM

AVERAGE HOURLY PROJECT RATES

FIRM Strand Associates, Inc.
PSB N/A
PRIME/SUPPLEMENT Prime

DATE 02/24/17

SHEET 1 OF 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			1. Administration			2. Topographical Survey & Base Map			3. Soil Borings and Subsurface Soils Investigation			4. Utility Communication			5. Land Acquisition		
		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	4	0.27%	0.19	2	1.04%	0.73												
Project Manager	63.67	213	14.30%	9.11	78	40.63%	25.87							2	7.14%	4.55			
Structural Engineer	56.61	6	0.40%	0.23															
Project Engineer	38.01	764	51.31%	19.50	72	37.50%	14.25				4	100.00%	38.01	10	35.71%	13.57			
Technician	32.12	418	28.07%	9.02				8	100.00%	32.12				16	57.14%	18.35			
Clerical	30.84	84	5.64%	1.74	40	20.83%	6.43												
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TOTALS		1489	100%	\$39.78	192	100.00%	\$47.27	8	100%	\$32.12	4	100%	\$38.01	28	100%	\$36.48	0	0%	\$0.00

AVERAGE HOURLY PROJECT RATES

FIRM Strand Associates, Inc.
PSB N/A
PRIME/SUPPLEMENT Prime

DATE 02/24/17

SHEET 2 **OF** 3

PAYROLL CLASSIFICATION	AVG HOURLY RATES	6. Environmental Surveys			7. Permitting			8. Traffic Analysis and Traffic Signal Design			9. Roadway Design			10. Drainage Design			11. Plans, Special Provisions, & Estimates		
		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																		
Project Manager	63.67	8	18.18%	11.58	8	22.22%	14.15	10	4.48%	2.86	4	4.55%	2.89	2	5.00%	3.18	30	4.29%	2.73
Structural Engineer	56.61													6	15.00%	8.49			
Project Engineer	38.01	28	63.64%	24.19	22	61.11%	23.23	108	48.43%	18.41	45	51.14%	19.43	16	40.00%	15.20	410	58.57%	22.26
Technician	32.12	8	18.18%	5.84				93	41.70%	13.40	39	44.32%	14.24	16	40.00%	12.85	238	34.00%	10.92
Clerical	30.84				6	16.67%	5.14	12	5.38%	1.66							22	3.14%	0.97
TOTALS		44	100%	\$41.60	36	100%	\$42.52	223	100%	\$36.32	88	100%	\$36.56	40	100%	\$39.73	700	100%	\$36.88

Strand Associates, Inc

Indiana Route Inter section Improvement at Vincennes Road
Lake County Division of Transportation

Hourly Rate Ranges for Strand Associates, Inc.			
Classification	Average	Rate Ranges	
PRINCIPAL	State Max. \$70.00	\$142.64	\$71.83
PROJECT MANAGER	\$61.35	\$101.80	\$47.02
STRUCTURAL ENGINEER	\$54.55	\$63.58	\$40.38
PROJECT ENGINEER	\$36.62	\$70.00	\$27.69
TECHNICIAN	\$30.95	\$62.88	\$15.00
CLERICAL	\$29.72	\$80.16	\$14.82

Lake County Man Hours		Exhibit A
TASK	HOURS	COMMENTS
ADMINISTRATION		
PROJECT TRACKING	24	ASSUME 24 MONTHS @ 1 HRS / MONTH
PREPARE MONTHLY INVOICES	24	ASSUME 24 MONTHS @ 1 HRS / MONTH
COMMUNICATION WITH LAKE COUNTY	48	ASSUME 24 MONTHS @ 2 HRS / MONTH
COMMUNICATION WITH IDOT	48	ASSUME 24 MONTHS @ 2 HRS / MONTH
COMMUNICATION WITH SUBCONSULTANTS	48	ASSUME 24 MONTHS @ 2 HRS / MONTH
ADMINISTRATION TOTAL	192	
TOPOGRAPHICAL SURVEY & BASE MAP		
TO BE PERFORMED BY SUBCONSULTANT		
- DEVELOP BASEMAP USING MICROSTATION AND GEOPAK.	8	
TOPOGRAPHICAL SURVEY & BASE MAP TOTAL	8	
SOIL BORINGS AND SUBSURFACE SOILS INVESTIGATION		
TO BE PERFORMED BY SUBCONSULTANT		
REVIEW RGR	4	
SOIL BORINGS AND SUBSURFACE SOILS INVESTIGATION TOTAL	4	
UTILITY COMMUNICATION		
OBTAIN PUBLIC AND PRIVATE UTILITY ATLASES	8	
IDENTIFY POTENTIAL UTILITY CONFLICTS	8	
SEND PREFINAL & FINAL LETTERS & PLANS TO UTILITY COMPANIES	8	
COMMUNICATE WITH UTILITY COMPANIES	4	
UTILITY COMMUNICATION TOTAL	28	
LAND ACQUISITION		
TO BE PERFORMED BY SUBCONSULTANTS		
LAND ACQUISITION TOTAL	0	
ENVIRONMENTAL SURVEYS		
SITE VISIT	16	2 PEOPLE AT 8 HRS/EA
PREPARE ESRF AND SUBMIT TO IDOT FOR PROCESSING	8	
PREPARE EXHIBITS FOR ESRF	8	
SPECIAL WASTE LEVEL 1 & 2 SCREENING AND MEMORANDUM	8	
REVIEW OF PESA	4	
ENVIRONMENTAL SURVEY TOTAL	44	
PERMITTING		
PREPARE NPDES PERMIT (STORMWATER POLLUTION PREVENTION PLAN)	8	
PREPARE AND SUBMIT IEPA NOTICE OF INTENT (IEPA)	4	
IDOT UTILITY PERMIT	24	
PERMITTING TOTAL	36	

Lake County Man Hours		Exhibit A
TASK	HOURS	COMMENTS
TRAFFIC ANALYSIS AND TRAFFIC SIGNAL DESIGN		
SUBMIT REQUEST TO IDOT FOR TRAFFIC SIGNAL WARRANTS	2	
PERFORM 12 HOUR TRAFFIC COUNT & TRAFFIC SIGNAL WARRANT STUDY	29	12 HRS OF COUNTS + 2.5 HR TRAVEL TIME X 2 TRIPS + 12 HRS SIGNAL WARRANT ANALYSIS
SUBMIT REQUEST TO CMAP FOR 2040 TRAFFIC VOLUME PROJECTIONS	4	
MODEL EXISTING AND NO BUILD CONDITIONS WITH SYNCHRO	12	
MODEL FUTURE CONDITIONS FOR UP TO 2 ALTERNATIVES WITH SYNCHRO	16	
PREPARE AND SUBMIT PREFINAL AND FINAL INTERSECTION DESIGN STUDY	100	INCLUDES HOURS TO MODEL A 3RD ALTERNATIVE, IF NEEDED.
PREPARE AND SUBMIT PREFINAL AND FINAL PERMANENT TRAFFIC SIGNAL DESIGN	60	
TRAFFIC ANALYSIS AND TRAFFIC SIGNAL DESIGN TOTAL	223	
ROADWAY DESIGN		
DESIGN ROADWAY HORIZONTAL ALIGNMENT & VERTICAL PROFILE	16	
DESIGN 3 ALTERNATIVE HORIZONTAL ALIGNMENTS FOR WINCHESTER ROAD	24	8 HRS @ 3 ALTERNATIVES + FIGURES + ROW ANALYSIS
PERFORM ALTERNATIVES ANALYSIS AND PROVIDE SUMMARY LETTER	12	
PAVEMENT DESIGN	6	
DEVELOP CROSS SECTIONS FOR DESIGN PURPOSES TO DETERMINE RIGHT OF WAY	30	EVERY 50' FOR 3000' = 60 TOTAL X .5 HRS /EA
ROADWAY DESIGN TOTAL	88	
DRAINAGE DESIGN		
DESIGN DITCHES	24	1 MILE OF DITCHES
DESIGN CULVERTS	16	3 CULVERTS
DRAINAGE DESIGN TOTAL	40	
PLANS, SPECIAL PROVISIONS, & ESTIMATES		
TITLE DRAWING	6	1 SHEET X 6 HRS
GENERAL NOTES & COMMITMENTS	8	1 SHEET X 8 HRS
SUMMARY OF QUANTITIES	48	84 PAY ITEMS / 14 PER SHEET X 8 HRS/EA (HRS INCLUDE QUANTITY CALCULATIONS)
TYPICAL SECTIONS	12	2 SHEETS X 6 HRS/EA
SCHEDULE OF QUANTITIES	48	6 SHEETS X 8 HRS/EA
ALIGNMENT, TIES, AND BENCHMARKS	56	7 SHEETS X 8 HRS/EA
REMOVAL PLAN	48	4 SHEETS X 12 HRS/EA - DUAL PLAN VIEW
PLAN AND PROFILE SHEETS	112	7 SHEETS X 16 HRS/EA
MAINTENANCE OF TRAFFIC PLANS	30	4 SHEETS (1 NOTES SHEET @ 6 HRS/EA, 3 MOT TYPICAL SECTIONS SHEETS @ 8 HRS/EA)
TEMPORARY EROSION AND SEDIMENT CONTROL	32	4 SHEETS X 8 HRS/EA - DUAL PLAN VIEW
DRAINAGE AND UTILITY PLAN AND PROFILE	84	7 SHEETS X 12 HRS/EA
SIGNING DETAILS	8	1 SHEET X 8 HRS/EA
PAVEMENT MARKINGS AND SIGNING PLAN	32	4 SHEETS X 8 HRS/EA - DUAL PLAN VIEW
LANDSCAPE AND PERMANENT EROSION AND SEDIMENT EROSION CONTROL	32	4 SHEETS X 8 HRS/EA - DUAL PLAN VIEW
TRAFFIC SIGNAL PLANS	24	3 SHEETS X 8 HRS/EA
PASSAGE SHEETS (PROVIDED BY LCDOT)	2	
SOIL BORING DETAILS	4	1 SHEET X 4 HRS/EA
IDOT DISTRICT ONE DETAILS	4	8 SHEETS X 0.5 HRS
ROADWAY CROSS SECTIONS	62	EVERY 50' FOR 3000' = 60 + ENTRANCES = 62 X 1 HRS
SPECIAL PROVISIONS	24	
ESTIMATE OF TIME	8	
OPINION OF PROBABLE CONSTRUCTION COST	16	
PLANS, SPECIAL PROVISIONS, & ESTIMATES TOTAL	700	

Lake County Man Hours		Exhibit A
TASK	HOURS	COMMENTS
QUALITY ASSURANCE / QUALITY CONTROL		
ROADWAY QC	36	5% OF TOTAL HOURS
TRAFFIC SIGNAL QC	24	
DRAINAGE QC	8	
QUALITY ASSURANCE / QUALITY CONTROL TOTAL	68	
MEETINGS & AGENCY COMMUNICATION		
PLAN, PREPARE AND ATTEND TWO (2) PROGRESS MEETINGS WITH LOCAL AGENCY	20	4 HRS/MEETING X 2 PEOPLE/MEETING X 2 MEETINGS + 4 MINUTES/PREP HRS
PLAN, PREPARE AND ATTEND ONE (1) IDOT MEETING	8	3 HRS/MEETING X 2 PEOPLE/MEETING + 2 MINUTES/PREP HRS
PLAN, PREPARE AND ATTEND ONE (1) MEETING WITH FREMONT TOWNSHIP, MUNDELEIN, GRAYSLAKE, & ALTER GROUP	16	4 HRS/MEETING X 2 PEOPLE/MEETING + 8 MINUTES/PREP HRS
ATTEND ONE (1) PRE-CONSTRUCTION MEETING	14	4 HRS/MEETING X 2 PEOPLE/MEETING + 6 RFI HRS
MEETINGS & AGENCY COMMUNICATION TOTAL	58	
PROJECT MAN-HOUR TOTAL	1489	

Strand Associate, Inc
Inter Road at Iinoi Route Improvement
Lake Ontario Division of Transportation

R	Description	# of Copies	Rate	Total In House	Total Out House
1. Administration	24 invoices at 50 pg/invoice + misc.	2,400	\$0.15	\$360.00	
2. Topographical Survey & Base Map		100	\$0.15	\$15.00	
3. Soil Borings and Subsurface Soils Investigation			\$0.15	\$0.00	
4. Utility Communication		100	\$0.15	\$15.00	
5. Land Acquisition			\$0.15	\$0.00	
6. Environmental Surveys		300	\$0.15	\$45.00	
7. Permitting		250	\$0.15	\$37.50	
8. Traffic Analysis and Traffic Signal Design		250	\$0.15	\$37.50	
9. Roadway Design		100	\$0.15	\$15.00	
10. Drainage Design		100	\$0.15	\$15.00	
11. Plans, Special Provisions, & Estimates		1,000	\$0.15	\$150.00	
12. Quality Assurance / Quality Control		100	\$0.15	\$15.00	
13. Meetings & Agency Communication	Structural Report	200	\$0.15	\$30.00	
SUBTOTAL		4,900		\$735.00	

	Description	# of Hours	Rate	Total In House	Total Out House
1. Administration			\$15.00	\$0.00	
2. Topographical Survey & Base Map		8	\$15.00	\$120.00	
3. Soil Borings and Subsurface Soils Investigation			\$15.00	\$0.00	
4. Utility Communication		16	\$15.00	\$240.00	
5. Land Acquisition			\$15.00	\$0.00	
6. Environmental Surveys		24	\$15.00	\$360.00	
7. Permitting		12	\$15.00	\$180.00	
8. Traffic Analysis and Traffic Signal Design		160	\$15.00	\$2,400.00	
9. Roadway Design		70	\$15.00	\$1,050.00	
10. Drainage Design		32	\$15.00	\$480.00	
11. Plans, Special Provisions, & Estimates		600	\$15.00	\$9,000.00	
12. Quality Assurance / Quality Control		24	\$15.00	\$360.00	
13. Meetings & Agency Communication		2	\$15.00	\$30.00	
SUBTOTAL		948		\$14,220.00	

Strand Associate, Inc
Inter Road at Iinoi Route Improvement
Lake County Division of Transportation

S	Description			Total In House	Total Out House
1. Administration	24 Invoices x \$10				\$240.00
2. Topographical Survey & Base Map					
3. Soil Borings and Subsurface Soils Investigation					
4. Utility Communication	10 Plan Set Submittals				\$100.00
5. Land Acquisition					
6. Environmental Surveys	ESR / WIE / Wetland Delineation				\$50.00
7. Permitting	Submittals				\$50.00
8. Traffic Analysis and Traffic Signal Design					\$20.00
9. Roadway Design					
10. Drainage Design					
11. Plans, Special Provisions, & Estimates					
12. Quality Assurance / Quality Control					
13. Meetings & Agency Communication					
SUBTOTAL					\$460.00

IS	Description		Rate	Total In House	Total Out House
1. Administration				\$0.00	
2. Topographical Survey & Base Map	1 days of camera	1	\$20.00	\$20.00	
3. Soil Borings and Subsurface Soils Investigation				\$0.00	
4. Utility Communication				\$0.00	
5. Land Acquisition				\$0.00	
6. Environmental Surveys				\$0.00	
7. Permitting				\$0.00	
8. Traffic Analysis and Traffic Signal Design	Traffic Counter for 1 day	1	\$50.00	\$50.00	
9. Roadway Design				\$0.00	
10. Drainage Design				\$0.00	
11. Plans, Special Provisions, & Estimates				\$0.00	
12. Quality Assurance / Quality Control				\$0.00	
13. Meetings & Agency Communication				\$0.00	
SUBTOTAL				\$70.00	\$0.00

Strand Associate, Inc
Inter Road at Iinoi Route Improvement
Lake County Division of Transportation

R R SSI	Description	# of Hours	Rate	Total In House	Total Out House
1. Administration		164	\$16.00	\$2,624.00	
2. Topographical Survey & Base Map			\$16.00	\$0.00	
3. Soil Borings and Subsurface Soils Investigation			\$16.00	\$0.00	
4. Utility Communication		10	\$16.00	\$160.00	
5. Land Acquisition			\$16.00	\$0.00	
6. Environmental Surveys		12	\$16.00	\$192.00	
7. Permitting		20	\$16.00	\$320.00	
8. Traffic Analysis and Traffic Signal Design		24	\$16.00	\$384.00	
9. Roadway Design		8	\$16.00	\$128.00	
10. Drainage Design		8	\$16.00	\$128.00	
11. Plans, Special Provisions, & Estimates		70	\$16.00	\$1,120.00	
12. Quality Assurance / Quality Control		10	\$16.00	\$160.00	
13. Meetings & Agency Communication		6	\$16.00	\$96.00	
SUBTOTAL		332		\$5,312.00	

R o or opier	Description	# of Copies	Rate	Total In House	Total Out House
1. Administration			\$1.00	\$0.00	
2. Topographical Survey & Base Map	Photo log, other Phase I data	20	\$1.00	\$20.00	
3. Soil Borings and Subsurface Soils Investigation			\$1.00	\$0.00	
4. Utility Communication		50	\$1.00	\$50.00	
5. Land Acquisition	Public Meeting Exhibits, Initiation Letter Exhibits		\$1.00	\$0.00	
6. Environmental Surveys	ESR / Wetland Delineation	100	\$1.00	\$100.00	
7. Permitting		50	\$1.00	\$50.00	
8. Traffic Analysis and Traffic Signal Design	Warrant Analysis Figures	50	\$1.00	\$50.00	
9. Roadway Design		50	\$1.00	\$50.00	
10. Drainage Design	Alternatives Analysis Figures	50	\$1.00	\$50.00	
11. Plans, Special Provisions, & Estimates		150	\$1.00	\$150.00	
12. Quality Assurance / Quality Control		20	\$1.00	\$20.00	
13. Meetings & Agency Communication	Exhibits Exhibits	100	\$1.00	\$100.00	
SUBTOTAL		640		\$640.00	

Strand Associate, Inc
Inter Road at Illinois Route Improvement
Lake County Division of Transportation

IL	Description	# of Miles	Rate	Total In House	Total Out House
1. Administration			\$0.53		\$0.00
2. Topographical Survey & Base Map			\$0.53		\$0.00
3. Soil Borings and Subsurface Soils Investigation			\$0.53		\$0.00
4. Utility Communication			\$0.53		\$0.00
5. Land Acquisition			\$0.53		\$0.00
6. Environmental Surveys	1 Site Visit	140	\$0.53		\$74.20
7. Permitting			\$0.53		\$0.00
8. Traffic Analysis and Traffic Signal Design	Traffic Counts	280	\$0.53		\$148.40
9. Roadway Design			\$0.53		\$0.00
10. Drainage Design			\$0.53		\$0.00
11. Plans, Special Provisions, & Estimates			\$0.53		\$0.00
12. Quality Assurance / Quality Control			\$0.53		\$0.00
13. Meetings & Agency Communication	4 trips (2 Lake County Meetings, 1 Agency Meeting, and 1 Preconstruction Meeting)	560	\$0.53		\$296.80
SUBTOTAL		980			\$519.40

LLS	Description V=vehicle, T=trips (one way), P=Plazas	# of Tolls	Rate	Total In House	Total Out House
1. Administration					\$0.00
2. Topographical Survey & Base Map					\$0.00
3. Soil Borings and Subsurface Soils Investigation					\$0.00
4. Utility Communication					\$0.00
5. Land Acquisition					\$0.00
6. Environmental Surveys					\$0.00
7. Permitting					\$0.00
8. Traffic Analysis and Traffic Signal Design					\$0.00
9. Roadway Design					\$0.00
10. Drainage Design					\$0.00
11. Plans, Special Provisions, & Estimates					\$0.00
12. Quality Assurance / Quality Control					\$0.00
13. Meetings & Agency Communication	1 Meeting at IDOT D1	10	\$1.00		\$10.00
SUBTOTAL		10			\$10.00

Strand Associate, Inc
Inter Road at Iinoi Route Improvement
Lake Ontario Division of Transportation

RI S I S	Description	# of Copies	Rate	Total In House	Total Out House
1. Administration			\$0.15	\$0.00	
2. Topographical Survey & Base Map		50	\$0.15	\$7.50	
3. Soil Borings and Subsurface Soils Investigation			\$0.15	\$0.00	
4. Utility Communication	90 sheets/set x 5 copies x 2 submittals	900	\$0.15	\$135.00	
5. Land Acquisition	POH	20	\$0.15	\$3.00	
6. Environmental Surveys	WIE figures, ESR figures, Wetland Delineation figures	50	\$0.15	\$7.50	
7. Permitting		50	\$0.15	\$7.50	
8. Traffic Analysis and Traffic Signal Design	Report Figures	100	\$0.15	\$15.00	
9. Roadway Design		50	\$0.15	\$7.50	
10. Drainage Design		50	\$0.15	\$7.50	
11. Plans, Special Provisions, & Estimates	90 sheets/set x 10 copies x 2 submittals	1,800	\$0.15	\$270.00	
12. Quality Assurance / Quality Control	90 sheets/set x 2 copies x 2 submittals	360	\$0.15	\$54.00	
13. Meetings & Agency Communication		20	\$0.15	\$3.00	
SUBTOTAL		3,450		\$517.50	

H	Description	# of Minutes	Rate	Total In House	Total Out House
1. Administration		60	\$0.50	\$30.00	
2. Topographical Survey & Base Map		10	\$0.50	\$5.00	
3. Soil Borings and Subsurface Soils Investigation		10	\$0.50	\$5.00	
4. Utility Communication		30	\$0.50	\$15.00	
5. Land Acquisition		10	\$0.50	\$5.00	
6. Environmental Surveys		45	\$0.50	\$22.50	
7. Permitting		100	\$0.50	\$50.00	
8. Traffic Analysis and Traffic Signal Design			\$0.50	\$0.00	
9. Roadway Design			\$0.50	\$0.00	
10. Drainage Design			\$0.50	\$0.00	
11. Plans, Special Provisions, & Estimates			\$0.50	\$0.00	
12. Quality Assurance / Quality Control			\$0.50	\$0.00	
13. Meetings & Agency Communication		100	\$0.50	\$50.00	
SUBTOTAL		365		\$182.50	

Strand Associate, Inc
Inter Road at Iinoi Route Improvement
Lake County Division of Transportation

S	R	Description	Total In House	Total Out House
		1. Administration	\$3,014.00	\$240.00
		2. Topographical Survey & Base Map	\$187.50	\$0.00
		3. Soil Borings and Subsurface Soils Investigation	\$5.00	\$0.00
		4. Utility Communication	\$615.00	\$100.00
		5. Land Acquisition	\$8.00	\$0.00
		6. Environmental Surveys	\$727.00	\$124.20
		7. Permitting	\$645.00	\$50.00
		8. Traffic Analysis and Traffic Signal Design	\$2,936.50	\$168.40
		9. Roadway Design	\$1,250.50	\$0.00
		10. Drainage Design	\$680.50	\$0.00
		11. Plans, Special Provisions, & Estimates	\$10,690.00	\$0.00
		12. Quality Assurance / Quality Control	\$609.00	\$0.00
		13. Meetings & Agency Communication	\$309.00	\$306.80
		TOTAL	\$21,677.00	\$989.40

: Strand ociate , Inc

PTB NUMBER:

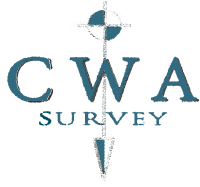
TODAY'S DATE:

	LL	L	ILI L	S I L	R R	L
Per Diem (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum				\$0.00	\$0.00
Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)				\$0.00	\$0.00
Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost				\$0.00	\$0.00
Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval				\$0.00	\$0.00
Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum	X	980		\$0.53	\$519.40
Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day				\$0.00	\$0.00
Vehicle Rental	Actual cost (Up to \$55/day)				\$0.00	\$0.00
Tolls	Actual cost				\$1.00	\$0.00
Parking	Actual cost				\$0.00	\$0.00
Overtime	Premium portion (Submit supporting documentation)				\$0.00	\$0.00
Shift Differential	Actual cost (Based on firm's policy)				\$0.00	\$0.00
Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)	X	1		\$460.00	\$460.00
Copies of Deliverables/Mylars (In-house) (8.5"x11")	Actual cost (Submit supporting documentation)	X	4,900		\$0.15	\$735.00
Copies of Deliverables/Mylars (In-house) (11"x17")	Actual cost (Submit supporting documentation)	X	3,450		\$0.15	\$517.50
Copies of Deliverables/Mylars (In-house) (22"x34")	Actual cost (Submit supporting documentation)				\$0.35	\$0.00
Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)				\$0.15	\$0.00
Project Specific Insurance	Actual cost				\$0.00	\$0.00
Monuments (Permanent)	Actual cost				\$0.00	\$0.00
Photo Processing	Actual cost				\$0.00	\$0.00
2-Way Radio (Survey or Phase III Only)	Actual cost				\$0.00	\$0.00
Telephone Usage (Traffic System Monitoring Only)	Actual cost	X	365		\$0.50	\$182.50
CADD	Actual cost (Max \$15/hour)	X	948		\$15.00	\$14,220.00
Web Site	Actual cost (Submit supporting documentation)				\$0.00	\$0.00
Advertisements	Actual cost (Submit supporting documentation)				\$0.00	\$0.00
Public Meeting Facility Rental	Actual cost (Submit supporting documentation)				\$0.00	\$0.00
Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)				\$0.00	\$0.00
Recording Fees	Actual cost				\$0.00	\$0.00
Transcriptions (specific to project)	Actual cost				\$0.00	\$0.00
Courthouse Fees	Actual cost				\$0.00	\$0.00
Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)				\$0.00	\$0.00
Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)				\$0.00	\$0.00
Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)				\$0.00	\$0.00
Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)				\$0.00	\$0.00
Testing of Soil Samples*	Actual cost				\$0.00	\$0.00
Lab Services*	Actual cost (Provide breakdown of each cost)				\$0.00	\$0.00
Equipment and/or Specialized Equipment Rental*	Actual cost (Requires 2-3 quotes with IDOT approval)	X	1		\$50.00	\$50.00
Word Processing	Actual Cost	X	332		\$16.00	\$5,312.00
Color Copies	Actual Cost	X	640		\$1.00	\$640.00
Camera Rental	Actual Cost	X	1		\$20.00	\$20.00
Projector	Actual Cost				\$125.00	\$0.00
Lap Top	Actual Cost				\$30.00	\$0.00
Tolls		X	10		\$1.00	\$10.00
					\$0.00	\$0.00
					\$0.00	\$0.00
L IR S						

**If other allowable costs are needed and not listed, please add in the above spaces provided.*
L

W.O. = Work Order

J.S. = Job Specific



Claassen, White & Associates, P.C.

LAND SURVEYORS

121 Airport Drive, Unit I, Joliet, Illinois 60431

(815) 744-3720 office (815) 744-3752 fax

claassenwhite@cwasurevey.com

DBE & WBE certified

IDOT prequalified in Special Services (Surveying)

RHONDA J. WHITE, PLS
President

DAVID A. CLAASSEN, PLS
Vice-President

February 23, 2017

Strand Associates Inc.
1170 South Houbolt Road
Joliet, IL 60431

RE: Lake County DOT
IL-83 and Winchester Road

Phase 1 / Topography
Limits: 1,200 LF North along IL-83
1,600 LF South along IL-83
200 LF West along W.Winchester Road
1,000 LF East along Winchester Road

Phase 2 / Land Acquisition for 7 parcels

Scope of Work

- Plat of Highways for 7 parcels (estimated 3 sheets, 7 acquisitions and 7 temporary easements) with legal descriptions per IDOT standards.
- Phase 1 Topography per IDOT Standards.
- Topography limits based on exhibits provided for the project, cross sections will be taken every 50 feet and will extend 20 feet beyond right of ways.
- Will provide Horizontal Control per RTK GPS methods with ties diagrams.
- Will provide Vertical Control per RTK GPS methods and digital leveling, will provide benchmarks and descriptions in word format.
- Will provide control report.
- Will provide Microstation Base CAD file per IDOT standards with topography and TIN (Phase 1 portion).
- Will provide PDF and paper copies for preliminary submittal (Phase 2 / Plat of Highways).
- Will provide Mylars for final submittal (Phase 2 / Plat of Highways).
- Title supplied by Strand Associates Inc.

Proposal by:
David A. Claassen, PLS
Vice President
Dave@cwasurevey.com

PAYROLL ESCALATION TABLE ANNIVERSARY RAISES COST PLUS FIXED FEE

FIRM NAME
PRIME/SUPPLEMENT

Claassen, White & Associates, P.C.
Prime

DATE
02/23/17

CONTRACT TERM	24 MONTHS	OVERHEAD RATE	132.53%
START DATE	4/1/2017	COMPLEXITY FACTOR	0
RAISE DATE	ANNIVERSARY	% OF RAISE	3.00%

ESCALATION PER YEAR

DETERMINE THE MID POINT OF THE AGREEMENT

12

CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT

3.00%

The total escalation for this project would be: 3.00%

Claassen, White & Assoc DATE
Prime

02/23/17

[illegible]

COST PLUS FIXED FEE
COST ESTIMATE OF CONSULTANT SERVICES

FIRM

Claassen, White & Associates, P.C.

DATE _____

02/23/17

PTB

PTB
PRIME/SUPPLEMENT

Prime

**OVERHEAD RATE
COMPLEXITY FACTOR**

$$\frac{1.3253}{0}$$

1.3253

0

[illegible]

FIRM Claassen, White & Associates, P.C.
PTB _____
PRIME/SUPPLEMENT Prime

SHEET 1 OF 1

PREPARED BY THE CONSULTANT

TODAY'S DATE: 2/23//2017

**If other allowable costs are needed and not listed, please add in the above spaces provided.*

W.O. = Work Order
J.S. = Job Specific

Construction Monitoring &
Observations

Construction Materials Testing

Tunnels and Underground Openings

Geotechnical Engineering &
Evaluation

SEECO Consultants Inc.

CONSULTING ENGINEERS

Subsurface Explorations

Foundation Analysis & Design

Structural Rehabilitation
Condition Surveys

Dams and Drainage Studies

February 24, 2017

Ms. Darcie Gabrisko
Strand Associates
1170 Houbolt Rd.
Joliet, IL 60431

PROPOSAL

Preliminary Environmental Site Assessment for
the IL Rte. 83 and Winchester Ave. Improvements,
Lake County, IL

Dear Ms. Gabrisko,

Pursuant to your request, SEECO Consultants, Inc. (SEECO) is pleased to present our proposal for the above referenced project. In preparing our proposal, we have reviewed the information supplied and have drawn upon our experience on similar projects. Extent of project limits will be Illinois Route 83 from 1500' south to 1200' north of the Winchester Road T intersection and Winchester Road from the T Intersection to 500' east.

SEECO proposes to perform a Preliminary Environmental Site Assessment (PESA) of this Right of Way (ROW) in accordance with criteria from Bureau of Design and Environment Manual, Chapter 27, Dec. 2015 Edition and Bureau of Local Roads "A Manual for Conducting Preliminary Site Assessments for Illinois Department of Transportation Infrastructure Projects-2012." A cursory visual assessment will be made of adjoining properties at the time of reconnaissance of the ROW in question.

To perform the Study, SEECO will perform the following tasks:

- Field Reconnaissance to observe if readily visible signs of environmental concerns are present, including photographic documentation;
- Review of selected governmental agency records to determine if there is recorded evidence of environmental concerns with the subject property or with surrounding facilities. Some of these records may be obtained through a commercially available environmental database. The records to be reviewed include, but are not limited to:

CERCLIS List & State Equivalent
RCRA List & State Equivalent
National Priorities List & State Equivalent
ERNs List
UST Permitted Locations
LUST Incident Reports
State Solid Waste Landfill Inventory
USGS Topographic Map
Aerial Photographs
U.S. Department of Interior Wetlands Inventory Maps
Illinois Hydrological Investigations Atlas

(708) 429-1666 • 7350 Duvar Drive • Tinley Park, IL 60477 • FAX: (708) 429-1689

www.seeco.com

PROPOSAL

Preliminary Environmental Site Assessment for
the IL Rte. 83 and Winchester Ave. Improvements,
Lake County, IL

February 24, 2017
Page 2

- Interview/discussion with the readily available local authorities (i.e. Fire Department, HAZMAT Personnel, etc.) for knowledge of past property uses and/or environmental incidents;

Upon completion of all activities and record searches, a Report of Findings will be prepared. This report will include site location and features maps, government agency records review, field reconnaissance, and other activities performed including conclusions and recommendations. The level(s) of PESA Risk Findings will be identified. Included will be determinations of Potential Impacted Properties (PIPs) locations, if any, and if a preliminary site investigation (PSI) is required.

One (1) paper copy of the report and one (1) electronic copy will be provided. The PESA will be strictly confidential between SEECO and Strand Assoc. Invoicing terms are net 30 days from date of invoice.


The Lump Sum cost for these services as stated herewith will be as follows:

Preliminary Environmental Site Assessment	\$6,720.00
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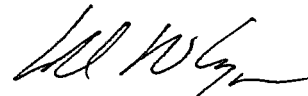
If this proposal is acceptable, please indicate by preparing a subconsultant agreement. We appreciate the opportunity to offer our services and are looking forward to working with you on this project.

Respectfully submitted,

SEECO Consultants Inc.



Donald C. Cassier
Director of Field Services



Collin W. Gray, SE, PE
President

Construction Monitoring &
Observations

Construction Materials Testing

Tunnels and Underground Openings

Geotechnical Engineering &
Evaluation

SEECO Consultants Inc.
CONSULTING ENGINEERS

Subsurface Explorations

Foundation Analysis & Design

Structural Rehabilitation
Condition Surveys

Dams and Drainage Studies

February 24, 2017

Ms. Darcie Gabrisko
Strand Associates Inc.
1170 Houbolt Rd.
Joliet, IL 60431

PROPOSAL

Subsurface Exploration, Laboratory Testing and Geotechnical
Engineering and Analysis for the Proposed Route 83 and
Winchester Road Improvement, Lake County, IL

Dear Ms. Gabrisko,

Pursuant to your request, SEECO Consultants, Inc. is pleased to present our proposal for the above referenced project. In preparing our proposal, we have reviewed pertinent information and have discussed the project with you.

The scope of work SEECO is proposing is as follows:

- Perform a total of nine (9) borings to 10' for the proposed widening. Additionally, 8 pavement cores will be obtained to determine the existing pavement cross-section. The boreholes will be located at locations consistent with the improvements in widening areas and will be field staked by SEECO.
- Representative soil samples will be collected and field screened for the presence of volatile organic vapors using a photo ionization detector (PID). Visual and olfactory senses will also be used to screen the soil samples for the presence of petroleum hydrocarbons. If no samples display an elevated PID reading, and pH test results meet the MAC Table, then the soil will be assumed to be, to the best of our knowledge, clean, uncontaminated fill material. This information will be documented on the IEPA LPC-662 form. One form will be prepared. If soil is found to be apparently contaminated material, further testing and reporting will be necessary with a Preliminary Site Investigation. A Preliminary Site Investigation will require a supplement to our service fee. Screening or prescreening of samples is no guarantee that a landfill facility will accept/not reject materials. Nor is it a determination that the site is entirely clean of contaminants per IEPA standards. Preparation of LPC 662 or 663 Forms is no guarantee that material will be accepted by landfills or CCDD facilities.
- The resulting soil samples will be returned to SEECO's laboratory for further testing and analysis. Visual Classification, Moisture Content and Unconfined Compressive Strength utilizing a Rimac will be performed on all applicable samples. Representative samples will be tested for plasticity, grain size distribution and pH.
- Upon completion of the field exploration and laboratory testing a written geotechnical report will be prepared under the direction of a Registered Professional/Structural Engineer of Illinois. The report will address encountered subsurface soil conditions, laboratory data, pavement

(708) 429-1666 • 7350 Duvan Drive • Tinley Park, IL 60477 • FAX: (708) 429-1689

www.seeco.com

PROPOSAL

Subsurface Exploration, Laboratory Testing and Geotechnical
Engineering and Analysis for the Proposed Route 83 and
Winchester Road Improvement, Lake County, IL

February 24, 2017
Page 2

recommendations and general construction considerations. Soil boring profiles will be added to profile drawings supplied to us by you. This report will be prepared as an IDOT RGR.

- It is anticipated that right of entry and access locations to the site will be provided to us. Boring locations may be offset as required. No utility R.O.W. conflicts are anticipated. SEECO will not be responsible for restoration costs, if any. This contract is not assignable. No permits or bonds are required..

The cost for these services will be \$17,980.00 per the attached Unit Price Fee Schedule.

We will proceed with the work as outlined after we receive a signed subconsultant agreement from Strand Associates, Inc.

If there are any questions with regard to this proposal, I would be glad to discuss them with you. We are very interested in providing you with our services on this project and assure you of our utmost cooperation.

Respectfully submitted,

SEECO Consultants, Inc.



Donald C. Cassier,
Director of Field Services



Collin W. Gray, S.E., P.E.
President

DCC:arm

UNIT PRICE FEE SCHEDULE

Mobilization of Equipment and Personnel	\$ 500.00
Field Engineer Estimate 22 hrs @ \$110.00/hr	\$ 2,420.00
Two Man Drill Crew w/Equipment Estimate 10 crew hours @ \$385.00/crew hour	\$ 3,850.00
Pavement Cores Estimate 6 hrs @ \$285.00/hr	\$ 1,710.00
Flag Personnel Estimate 16 man hours @ \$100.00/Man hour	\$ 1,600.00
Visual Classification (AASHTO), Moisture Content, Unconfined Compressive Strength (Qp) Estimate 48 tests @ \$12.50/test	\$ 600.00
PID Meter Estimate 1 day @ \$80.00/day	\$ 80.00
Grain Size Analysis Estimate 2 tests @ \$195.00/test	\$ 390.00
Atterberg Limits Estimate 2 tests @ \$95.00/test	\$ 190.00
pH Tests Estimate 4 tests @ \$25.00/test	\$ 100.00
Principal Engineer Estimate 2 hrs @ \$190.00/hr	\$ 380.00
Project Engineer Estimate 36 hrs @ \$120.00/hr	\$ 4,320.00
Staff Engineer Estimate 8 hrs @ \$110.00/hr	\$ 880.00
Draftsman Estimate 8 hrs @ \$90.00/hr	\$ 720.00
Technical Typist Estimate 4 hrs @ \$60.00/hr	<u>\$ 240.00</u>
Estimated Total	\$17,980.00



Hampton, Lenzini and Renwick, Inc.

Civil Engineers • Structural Engineers • Land Surveyors • Environmental Specialists
www.hltrengineering.com

February 20, 2017

Mr. Marc Grigas
Strand Associates, Inc.
1170 S. Houbolt Road
Joliet, IL 60431

Re: Proposal for Negotiation Services
Lake County Division of Transportation
Route : Illinois Route 83
Section : at Winchester Road

Dear Mr. Grigas:

We have reviewed the information provided. Our proposal for negotiation services is as follows:

Scope of Service: Provide negotiation services for the acquisition of seven (7) parcels consisting of fee simple acquisitions and/or temporary construction easements. Negotiations will be performed in compliance with IDOT Land Acquisition Policies and Procedures. Negotiation services will also include obtaining right-of-way certification by IDOT. Negotiation and certification services will be performed by Colette Tuman, IDOT-approved fee negotiator. Negotiations will begin upon receiving authorization to proceed, the project receiving Design Approval from IDOT, and upon the review appraisal receiving approval by IDOT Bureau of Land Acquisition.

Fee for Negotiation and Right-of-Way Certification Services:

<u>Property</u>	<u>Proposed Fee</u>
Seven (7) Parcels: Illinois Route 83 at Winchester Road	\$31,500.00 (\$4,500 Per Parcel)

If additional parcels requiring negotiation and certification services are added to the project, the proposed fee will be \$4,500 per additional parcel.

Yours truly,

HAMPTON, LENZINI AND RENWICK, INC.

By:

ReJena Lyon, PE, PLS
Executive Vice President



Hampton, Lenzini and Renwick, Inc.

Civil Engineers • Structural Engineers • Land Surveyors • Environmental Specialists
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February 21, 2017

Mr. Marc Grigas, P.E.
Strand Associates, Inc.
1170 S. Houbolt Road
Joliet, IL 60431

Re: Proposal for Appraisal Service
IL Route 83 & Winchester Road
Seven parcels

Dear Mr. Grigas

We have reviewed the information provided. Our proposal for appraisal service is as follows:

Scope of Service: Provide an appraisal report with a value estimate of compensation to the property owner for the property to be acquired. The report will be prepared in compliance with the Uniform Standards of Professional Appraisal Practice (USPSP). The report will be prepared by David M. Rogers, R/W-AC and Neil K. Steffens, MAI, SRA. Both are Illinois Certified General Appraisers. The valuation of the property acquisitions will be prepared on the appropriate IDOT form, LA33A. Reports will be completed within approximately four weeks after authorization to proceed.

Fee for Appraisal Service:

<u>Property</u>	<u>Proposed Fee</u>
Parcel 1	\$2,000
Parcel 2	\$2,000
Parcel 3	\$2,000
Parcel 4	\$2,000
Parcel 5	\$2,000
Parcel 6	\$2,000
Parcel 7	<u>\$2,000</u>
Total	\$14,000

If these services are acceptable, please forward me a subconsultant agreement.

t.

Yours truly,

Hampton Lenzini and Renwick, Inc.

ReJena Lyon, PE, PLS
Executive Vice President

POLACH APPRAISAL GROUP, INC.

1761 S. Naperville Road • Suite 103
Wheaton, Illinois 60189
Phone: 630.682.4650
Fax: 630.682.4814

121 W. Wacker Drive • Suite 856
Chicago, Illinois 60601
Phone: 312.422.1200
Fax: 312.422.1201

February 21, 2017

PROPOSAL FOR PROFESSIONAL SERVICES

AT THE REQUEST OF: Marc A. Grigas, P.E.
Strand Associates, Inc.
1170 S. Houbolt Rd.
Joliet, IL 60431

WITH REFERENCE TO THE FOLLOWING DESCRIBED PROPERTY:

Intersection of IL Route. 83 and Winchester Road
Lake County, IL
Seven Fee Acquisition Parcels and Seven Temporary Easements

POLACH APPRAISAL GROUP, INC., HEREBY PROPOSES TO PERFORM THE FOLLOWING PROFESSIONAL SERVICES:

Appraisal Review

Inspection of the seven subject properties and surrounding area; research with respect to the subject properties; review and inspection of market data research; analysis of the subject properties and the market data; review of the submitted appraisal reports in connection with the proposed partial acquisitions and temporary easements on each subject property. Preparation of a review appraisal report for each of the seven subject properties in accordance with Lake County Department of Transportation, LCDOT, and IDOT Land Acquisition Policies and Procedures.

The time of completion will be (21) twenty-one days from the date the appraisal report to be reviewed is received.

The fees for these services will be \$850 per parcel or a total of \$5,950.

This proposal is subject to receipt and approval of an acceptable sub-consultant agreement.



Wheatland

Title Guaranty

105 West Veterans Parkway, Yorkville, IL 60560

Phone: 630-892-2323

Fax: 630-892-2390

February 21, 2017

Marc Grigas, P.E.
Strand Associates, Inc.
1170 Houbolt Road
Joliet, IL 60431

Re: Lake County
Winchester Road at Illinois 83
PINs: 10-11-400-043; 039; 008; 024;
10-11-300-006; 10-14-100-002; 10-14-200-001
Quote for Title #17-115

Dear Mr. Grigas:

Thank you for the opportunity to review your request for Title work on the above referenced project. Listed below are our proposed costs for this project:

7 Parcels each at \$1,000\$7,000.00
(Project Total)

Title Commitment.....\$1,000.00
(Per Tax Parcel)

The costs as stated above, does not include any parcels that are found to be currently or previously owned by a railroad.

Document copies will be invoiced at the time they are requested.

Please do not hesitate to contact me if you should have any questions or need any additional information.

Thank you,

John D. Ammons