



**DRAFT**

**Strand Associates, Inc.®**  
1170 South Houbolt Road  
Joliet, IL 60431  
(P) 815-744-4200  
(F) 815-744-4215

March 17, 2020

Lake County Division of Transportation  
600 West Winchester Road  
Libertyville, IL 60048

Attention: Mr. Shane Schneider

Re: Supplement No. 3 to the March 14, 2017, Agreement for  
Preliminary Services for Non-Motor Fuel Tax Funds  
Winchester Road at Illinois Route 83 Intersection Improvements  
Section 16-00170-13-CH

This is Supplement No. 3 to the referenced Agreement.

Under **The LA Agrees**, item No.2, paragraph 3 CHANGE \$343,496.40 to \$424,408.94.

Under **SCOPE OF SERVICES CLARIFICATION-INTERSECTION IMPROVEMENTS**, ADD the following:

“Supplemental Subsurface Exploration (by SEECO Consultants, Inc.)

1. Perform six additional borings to a depth of 20 feet for the proposed intersection widening. The boreholes will be located consistent with the improvement in widening areas to delineate the unsuitable soils encountered previously.
2. Collect representative soil samples and field screen 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 Maximum Allowable Concentration (MAC) Table, then the soil is anticipated to be uncontaminated fill material. This information will be documented on the IEPA LPC-662 form.
3. Perform visual classification, moisture content, and unconfined compressive strength using a Rimac on applicable samples. Test representative samples for organic content.
4. Add the supplemental information to the DEPARTMENT Roadway Geotechnical Report and estimate the extent of unsuitable soils.

LA shall provide right of entry and access locations to the site. Boring locations may be offset as required. No utility right-of-way conflicts are anticipated.

Traffic Study and Detour Analysis

1. Perform two-hour peak period (6:00 A.M. to 8:00 A.M. and 4:00 P.M. to 6:00 P.M.) traffic counts at the following intersections:
  - a. IL Route 60 and IL Route 83

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- b. IL Route 60 and Peterson Road
  - c. Peterson Road and Behm Lane
  - d. Peterson Road and Alleghany Road
  - e. Peterson Road and IL Route 83
- 2. Use Chicago Metropolitan Agency for Planning 2040 traffic volumes to develop construction year traffic to use in traffic modeling.
- 3. Model construction year peak hour traffic both with and without detour traffic on the detour route. AM and PM peak hour traffic volumes will be evaluated.
- 4. Prepare and submit preliminary, prefinal, and final DEPARTMENT Traffic Management Plan.

#### Water Main Relocation

- 1. Prepare and submit preliminary, prefinal, and final construction drawings and list of construction standards for the relocation of approximately 765 linear feet of 16-inch PVC water main. Drawings include:
  - a. Water main plan and profiles
  - b. Erosion control sheet
  - c. Construction details
- 2. Prepare and submit technical specifications and opinion of probable construction cost for the water main relocation at preliminary, prefinal, and final submittals.
- 3. Prepare and submit the IEPA Water Main Construction permit.
- 4. Assist in the preparation of an intergovernmental agreement granting the Village of Mundelein, Illinois, access to water main facilities for maintenance and repairs, including preparation of water main exhibits.

#### Stormwater Management

- 1. Perform an existing and proposed conditions stormwater modeling evaluation of the project corridor using updated Bulletin 70 rainfall data.
- 2. Redesign the roadway profile of IL Route 83 to provide sufficient vertical freeboard above the recalculated regional 100-year, 24-hour flood elevation of the adjacent closed depressions.
- 3. Calculate the required compensatory flood storage volume of the adjacent closed depressions.
- 4. Communicate with LA, Lake County Stormwater Management Commission, and the DEPARTMENT regarding results.
- 5. Develop grading design drawings for the required compensatory flood storage volume.
- 6. Prepare revised roadway and ditch design and cross section drawings.
- 7. Prepare revised right-of-way and easement drawings.
- 8. Prepare revised Intersection Design Study documents.

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9. Prepare and submit preliminary and prefinal drawings. Final submittal was included with previously approved hours.
10. Develop an updated stormwater management report summarizing the results of the revised stormwater modeling evaluation and compliance with compensatory flood storage requirements. Submit to LCSMC and the DEPARTMENT for review and approval."

Under **SCOPE OF SERVICES CLARIFICATION-INTERSECTION IMPROVEMENTS, Meetings and Agency Communication**, ADD the following:

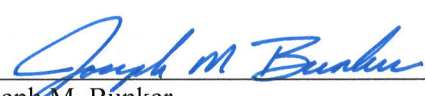
- "6. Prepare for and attend up to two progress meetings with the LA.
7. Prepare for and attend up to two meetings with the DEPARTMENT Detour Committee to discuss the proposed detour.
8. Prepare for and attend up to one meeting with the Village of Mundelein, Illinois, to discuss water main.
9. Prepare for and attend up to one meeting with the LCSMC to discuss the proposed depressional storage area.
10. Prepare for and attend up to one meeting with property owners.
11. Provide project-related information to LA for its DEPARTMENT reimbursement negotiations."

IN WITNESS HEREOF, the parties hereto have made and executed this Amendment.

Lake County:

Strand Associates, Inc.®

\_\_\_\_\_  
County Engineer  
Lake County

  
\_\_\_\_\_  
Joseph M. Bunker  
Corporate Secretary

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Date

EXPLANATION OF SUPPLEMENT 3 SCOPE ITEMS  
3/5/2020

Lake County Division of Transportation (LCDOT)  
Intersection Improvements  
IL Route 83 and Winchester Road

The following scope items are included in Supplement 3 to the Winchester Road at Illinois Route 83 Intersection Improvement project:

1. Supplemental Subsurface Exploration (by SEECO Consultants, Inc.) - Unsuitable soils were encountered by SEECO at boring B-4, which is recorded in the soil boring logs dated 7/18/18. Six additional borings and laboratory testing are proposed to delineate the extent of unsuitable soils surrounding B-4, which is located within an area of proposed roadway widening.
2. Traffic Study and Detour Analysis - The LCDOT would like to close both Winchester Road and IL Route 83 to reduce construction time and costs. The Illinois Department of Transportation (IDOT) requires a traffic study to prove increased delays, if any, caused by the detour are within acceptable levels. Additional services required at five intersections along the proposed detour route include traffic counts and traffic analyses to assess the detour impacts to IL Route 83 and IL Route 60. A presentation to the IDOT Detour Committee will also be required.
3. Water Main Relocation - Existing Village of Mundelein water main runs beneath the proposed depressional storage area. Several watermain conflicts were identified due to significant grade changes in this area. Additional services include design of approximately 765 linear feet of water main relocation and preparation of technical specifications and opinion of probable construction cost for the relocation. An Intergovernmental Agreement will be required granting the Village of Mundelein access to the watermain facilities. Assisting in the preparation of agreement exhibits is also included in the additional services.
4. Stormwater Management - The LCDOT and Lake County Stormwater Management Commission recommends revising the drainage study at the intersection to use the new Bulletin 70 rainfall data. This will require revising all stormwater modeling for the project and redesigning the roadway profile of IL Route 83. Due to these changes, depressional storage area grading design, roadway drainage and ditch cross sections, right-of way and easements, Intersection Design Study documents, and stormwater management plan must be revised.
5. Meetings and Agency Communication - Additional meetings will be required to address the items above and provide progress updates.





## VENDOR DISCLOSURE STATEMENT

Vendor Name:	Strand Associates, Inc.		
Address:	1170 Houbolt Road Joliet, IL 60431		
Contact Person:	Darcie Gabrisko, P.E.	Contact Phone #:	815-744-4200
Bid/RFP/SOI/Contract/Renewal:	Contract Supplement #3		

Vendors wishing to contract with Lake County for goods and services in an amount greater than \$30,000 shall submit this form in advance of award. Vendors shall disclose:

- A familial relationship between a Lake County elected official, department director, deputy director and manager and owners, principals, or officers of the vendor's company. Familial relationship is defined as a spouse (including civil partner), child, stepchild, parent, stepparent, grandparent, in-laws (including parent, grandparent, sibling, or child), relatives and non-relatives living in the same residence, and offspring born to any aforementioned person.
- All political campaign contributions made by the vendor or an owner, principal, officer, manager, lobbyist, agent, consultant, counsel, subcontractor or corporate entity under the control of the vendor to any county board member, county board chair, or countywide elected official as well as contributions to any political action committees within the last five years.

### FAMILIAL RELATIONSHIPS

List below the names and departments/agencies of Lake County employees or public officials with whom owners, principals, or officers of the vendor's company have a familial relationship and the nature of the relationship. Please attach additional pages as necessary.

Name and Department/Agency of Lake County Employee/Public Official		Familial Relationship
None		

### CAMPAIGN CONTRIBUTIONS

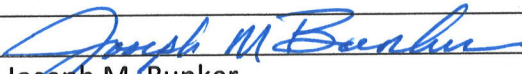
List below the campaign contributions that have been made within the last five years. Please attach additional pages as necessary.

Recipient	Donor	Description (e.g., cash, type of item, in-kind service, etc.)	Amount/Value	Date Made
None				

Continuing disclosure is required if information changes. This Vendor Disclosure Statement form is available at [www.lakecountyil.gov](http://www.lakecountyil.gov).

The full text of the County's Ethics and Procurement policies and ordinances are available at [www.lakecountyil.gov](http://www.lakecountyil.gov).

I hereby acknowledge that the information above is accurate and complete, that I am an authorized signer on behalf of the vendor, that I have read and understand these disclosure requirements, and that I agree to update this information if there are any related changes by submitting a new Vendor Disclosure Statement.

Authorized Signature:		Title:	Corporate Secretary
Printed Name:	Joseph M. Bunker	Date:	11/13/19

Winchester Road at IL Route 83 Intersection Improvements  
Supplement #3

	2020												2021	2022		
	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
Geotechnical Engineering- Supplemental Borings (SEECO)																
Traffic Study and Detour Analysis and Meeting																
Watermain Relocation Design																
Stormwater Management Design																
Drainage Study Submittal to LCDOT, IDOT, and SMC																
Final IDS Submittal to LCDOT and IDOT																
Preliminary PS&E Submittal																
Prefinal PS&E Submittal																
Final PS&E Submittal																
Project Letting																

Submittals to LCDOT and IDOT Concurrently  
 Drainage Study Submittal (also submit to SMC)  
 August 2020  
 October 2020  
 Final IDS Submittal  
 December 2020  
 Preliminary PS&E Submittal  
 March 2021  
 Prefinal PS&E Submittal  
 February 2022  
 Final PS&E Submittal  
 March 2022 \*

\* As approved by IDOT Detour Committee

PAYROLL ESCALATION TABLE  
FIXED RAISES

FIRM NAME  
PRIME/SUPPLEMENT

Strand Associates, Inc.  
Prime

DATE 03/05/20  
PTB NO. N/A

CONTRACT TERM  
START DATE  
RAISE DATE

9 MONTHS  
5/4/2020  
6/30/2020

OVERHEAD RATE  
COMPLEXITY FACTOR  
% OF RAISE

155.49%  
0  
3.00%

ESCALATION PER YEAR

5/4/2020 - 6/30/2020

2  
9

= 22.22%  
= 1.0233

7/1/2020 - 1/31/2021

7  
9

80.11%

The total escalation for this project would be:

2.33%

## PAYROLL RATES

FIRM NAME	<u>Strand Associates, Inc.</u>	DATE	<u>03/05/20</u>
PRIME/SUPPLEMENT	<u>Prime</u>		
PSB NO.	<u>N/A</u>		

**ESCALATION FACTOR** **2.33%**

[illegible]



## Subconsultants

FIRM NAME  
PRIME/SUPPLEMENT  
PSB NO.

Strand Associates, Inc.  
Prime  
N/A

DATE 03/05/20

NAME	Direct Labor Total	Contribution to Prime Consultant
SEECO Consultants, Inc.	11,880.00	1,188.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
		0.00
Total	11,880.00	1,188.00

# COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

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

**DATE** 03/05/20  
**OVERHEAD RATE** 1.5549  
**COMPLEXITY FACTOR** 0

DF-824-039  
REV 12/04  
03/05/20

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. Supplemental Subsurface Exploration	10	688.40	1,070.39	0.00	255.02	0.00	11,880.00		13,893.81	17.17%
	2. Traffic Study and Detour Analysis	107	4,390.20	6,826.33	848.10	1,749.37	746.00	0.00		14,560.00	17.99%
	3. Watermain Relocation	118	5,255.36	8,171.56	624.00	2,037.38	0.00	0.00		16,088.30	19.88%
	4. Stormwater Management	144	6,449.46	10,028.26	1,308.80	2,579.04	0.00	0.00		20,365.56	25.17%
	5. Meetings and Agency Communication	116	4,960.26	7,712.70	357.50	1,889.42	1,085.00	0.00		16,004.88	19.78%
	<b>TOTALS</b>	495	21,743.67	33,809.23	3,138.40	8,510.24	1,831.00	11,880.00	0.00	<b>80,912.54</b>	100.00%

PREPARED BY THE AGREEMENTS UNIT

Printed 3/5/2020 11:35 AM



## Strand Associates, Inc.

### Illinois Route 83 Intersection Improvements at Winchester Road

### Lake County Division of Transportation

Hourly Rate Ranges for Strand Associates, Inc.			
Classification	Average	Rate Ranges	
PRINCIPAL	\$96.41	\$79.88	\$135.29
PROJECT MANAGER	\$67.27	\$49.85	\$113.19
STRUCTURAL ENGINEER	\$69.55	\$48.89	\$127.36
PROJECT ENGINEER	\$40.00	\$32.05	\$60.66
TECHNICIAN	\$33.10	\$16.00	\$73.73
CLERICAL	\$32.78	\$19.50	\$88.70

## Lake County Man Hours

TASK	HOURS	COMMENTS
SUPPLEMENTAL SUBSURFACE EXPLORATION		
Administration and Communication	10	
SUPPLEMENTAL SUBSURFACE EXPLORATION TOTAL	10	
TRAFFIC STUDY AND DETOUR ANALYSIS		
Administration and Communication	8	
Traffic Counts	45	am & pm peak at 9 intersections
Construction Traffic Forecast and Modeling	18	
Preliminary Project Traffic Management Plan	24	
Prefinal Project Traffic Management Plan	8	
Final Project Traffic Management Plan	4	
TRAFFIC STUDY AND DETOUR ANALYSIS TOTAL	107	
WATERMAIN RELOCATION		
Administration and Communication	8	
Preliminary, Pre-Final, and Final Submittal of Design, Drawings, and Quantities	54	
Preliminary, Pre-Final, and Final Submittal of Specifications	24	
Permitting	16	
Communication with and Mundelein and Intergovernmental Agreement Assistance	16	
WATERMAIN RELOCATION TOTAL	118	
STORMWATER MANAGEMENT		
Administration and Communication	12	
Revised Existing Conditions Stormwater Modeling	8	
Revised Proposed Conditions Stormwater Modeling	8	
Communicate with LA, SMC, and IDOT regarding findings	12	
Redesign of IL Rte. 83 Roadway Profile	16	
Recalculate Revised Compensatory Storage Volume	8	
Revised Grading Design to Provide Required Comp. Storage	16	
Prepare Revised Roadway and Ditch Design and Cross Sections	16	
Prepare Revised ROW and Easement Limits and Drawings	8	
Prepare Revised Intersection Design Study	8	
Preliminary and PreFinal Submittal of Revised Drawings to IDOT	16	
Develop Updated Stormwater Management Report	16	
STORMWATER MANAGEMENT TOTAL	144	
MEETINGS AND AGENCY COMMUNICATION		
Two LA Progress Meetings Prep and Attend	30	
Two IDOT Detour Committee Meetings Prep and Attend	30	
Mundelein Watermain Meeting	16	
LCSMC Meeting Prep and Attend	16	
Land Acquisition Meeting Prep and Attend	16	
IDOT Reimbursement Data	8	
MEETINGS AND AGENCY COMMUNICATION TOTAL	116	
PROJECT MAN-HOUR TOTAL	495	

**Strand Associates, Inc.**  
**Winchester Road at Illinois Route 83 Improvements**  
**Lake County - Division of Transportation**  
**SUPPLEMENT #3**

<b>XEROX</b>	Description	# of Copies	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$0.15	\$0.00	
2. Traffic Study and Detour Analysis		50	\$0.15	\$7.50	
3. Watermain Relocation		100	\$0.15	\$15.00	
4. Stormwater Management		100	\$0.15	\$15.00	
5. Meetings and Agency Communication		200	\$0.15	\$30.00	
<b>SUBTOTAL</b>		450		\$67.50	

<b>CADD</b>	Description	# of Hours	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$16.00	\$0.00	
2. Traffic Study and Detour Analysis		14	\$16.00	\$224.00	
3. Watermain Relocation		32	\$16.00	\$512.00	
4. Stormwater Management		64	\$16.00	\$1,024.00	
5. Meetings and Agency Communication		0	\$16.00	\$0.00	
<b>SUBTOTAL</b>		110		\$1,760.00	

<b>POSTAGE</b>	Description			Total In House	Total Out House
1. Supplemental Subsurface Exploration					\$0.00
2. Traffic Study and Detour Analysis					\$0.00
3. Watermain Relocation					\$0.00
4. Stormwater Management					\$0.00
5. Meetings and Agency Communication					\$0.00
<b>SUBTOTAL</b>					\$0.00

<b>MISC. EQ.</b>	Description	# of Days	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0		\$0.00	
2. Traffic Study and Detour Analysis	Traffic Counters	5	\$60.00	\$300.00	
3. Watermain Relocation		0		\$0.00	
4. Stormwater Management		0		\$0.00	
5. Meetings and Agency Communication		0		\$0.00	
<b>SUBTOTAL</b>		5		\$300.00	

<b>WORD PROCESSING</b>	Description	# of Hours	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$16.00	\$0.00	
2. Traffic Study and Detour Analysis		18	\$16.00	\$281.60	
3. Watermain Relocation		2	\$16.00	\$32.00	
4. Stormwater Management		13	\$16.00	\$204.80	
5. Meetings and Agency Communication		15	\$16.00	\$240.00	
<b>SUBTOTAL</b>		47		\$758.40	

<b>XEROX 2 (Color Copier)</b>	Description	# of Copies	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$1.00	\$0.00	
2. Traffic Study and Detour Analysis		20	\$1.00	\$20.00	
3. Watermain Relocation		50	\$1.00	\$50.00	
4. Stormwater Management		50	\$1.00	\$50.00	
5. Meetings and Agency Communication		50	\$1.00	\$50.00	
<b>SUBTOTAL</b>		170		\$170.00	



**Strand Associates, Inc.**  
**Winchester Road at Illinois Route 83 Improvements**  
**Lake County - Division of Transportation**  
**SUPPLEMENT #3**

<b>MILEAGE</b>	Description	# of Miles	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$0.58		\$0.00
2. Traffic Study and Detour Analysis	Traffic Counts	1,200	\$0.58		\$696.00
3. Watermain Relocation		0	\$0.58		\$0.00
4. Stormwater Management		0	\$0.58		\$0.00
5. Meetings and Agency Communication		1,750	\$0.58		\$1,015.00
<b>SUBTOTAL</b>		2,950			\$1,711.00

<b>TOLLS</b>	Description V=vehicle, T=trips (one way), P=Plazas	# of Tolls	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$2.50		\$0.00
2. Traffic Study and Detour Analysis	Traffic Counts	20	\$2.50		\$50.00
3. Watermain Relocation		0	\$2.50		\$0.00
4. Stormwater Management		0	\$2.50		\$0.00
5. Meetings and Agency Communication		28	\$2.50		\$70.00
<b>SUBTOTAL</b>		48			\$120.00

<b>PRINTS/COPIES (11X17)</b>	Description	# of Copies	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$0.15	\$0.00	
2. Traffic Study and Detour Analysis		100	\$0.15	\$15.00	
3. Watermain Relocation		100	\$0.15	\$15.00	
4. Stormwater Management		100	\$0.15	\$15.00	
5. Meetings and Agency Communication		250	\$0.15	\$37.50	
<b>SUBTOTAL</b>		550		\$82.50	

<b>PHONE</b>	Description	# of Minutes	Rate	Total In House	Total Out House
1. Supplemental Subsurface Exploration		0	\$0.50	\$0.00	
2. Traffic Study and Detour Analysis		0	\$0.50	\$0.00	
3. Watermain Relocation		0	\$0.50	\$0.00	
4. Stormwater Management		0	\$0.50	\$0.00	
5. Meetings and Agency Communication		0	\$0.50	\$0.00	
<b>SUBTOTAL</b>		0		\$0.00	

<b>SUMMARY</b>	Description			Total In House	Total Out House
1. Supplemental Subsurface Exploration				\$0.00	\$0.00
2. Traffic Study and Detour Analysis				\$848.10	\$746.00
3. Watermain Relocation				\$624.00	\$0.00
4. Stormwater Management				\$1,308.80	\$0.00
5. Meetings and Agency Communication				\$357.50	\$1,085.00
<b>TOTAL</b>				\$3,138.40	\$1,831.00