

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval  
of Change in Consultant Contract

Date: 6/14/2013

Local Agency: LAKE COUNTY

Request: No. 2

Name: Wilson Road at Nippersink

To: Lake County Division of Transportation

Section: 03-00070-06-CH

Consultant: TranSystems

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount for services described:	\$374,810.02
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Sum of all previous contract change orders:	\$8,934.00
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Item #	Description	Additions	Deductions
1	Phase I design change from roundabout to 3 lane traffic signalized intersection	\$119,420.96	
2	Phase I plats & legals		\$21,147.47
TOTALS		\$119,420.96	\$21,147.47
NET CHANGE		\$98,273.49	\$0.00

Net ADDITION change to date \$107,207.49 which is 28.60 % of the original contract amount for services described

State fully the nature and reason for change:

Revised contract amount for services described:	\$482,017.51
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Please see attached.

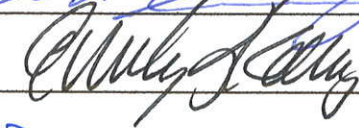
When the net increase or decrease in the cost of the contract is \$10,000 or more, or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

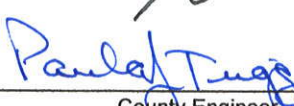
The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.

The undersigned determined that the circumstances which necessitated this change were not within the contemplation of the contract as signed.

The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

Project Engineer  Date 6/14/13

Director of Planning  Date 6/14/13

Approved  Date 6/17/13  
County Engineer

## EXHIBIT A – SUPPLEMENT #2 SCOPE OF SERVICES

Wilson Road at Nippersink Road  
Intersection Improvement  
Section No. 03-00070-06-CH

This supplement consists of Phase 1 Preliminary Engineering to evaluate a traffic signal alternative in addition to completed evaluation for a roundabout at the Wilson Road at Nippersink Road intersection. The scope of work consists of additional coordination, drainage studies, design studies, public involvement, and the removal of the plat scope of work.

1. Coordination
  - a. Meet and coordinate with LCDOT (Three additional meetings anticipated).
  - b. No additions to scope are anticipated to continue coordination with Grant Township, Lake County Stormwater Management Commission, Big Hollow School, and Village of Round Lake.
2. Survey
  - a. No additional survey is identified at this time for traffic signal alternative.
3. Environmental Studies
  - a. No environmental studies are identified at this time for traffic signal alternative.
4. Drainage Studies
  - a. No existing drainage studies are identified at this time for traffic signal alternative.
  - b. Revise culvert sizing for four proposed culverts for traffic signal alternative.
  - c. Identify right-of-way necessary to construct proposed culverts including riprap needs for traffic signal alternative.
  - d. Preliminary compensatory storage for traffic signal alternative
    - i. Calculate depressional floodplain fill and compensatory storage mitigation requirements.
    - ii. Identify right-of-way necessary to construct compensatory storage.
  - e. Preliminary detention for traffic signal alternative
    - i. Calculate added impervious and show detention not required.
  - f. Preliminary drainage design for traffic signal alternative
    - i. Identify preferred drainage alternative of storm sewers or ditches.
    - ii. Develop preliminary layout and sizing for the proposed storm sewers and /or ditches.
    - iii. Identify right-of-way necessary to meet preliminary drainage layout.
5. Design Studies
  - a. Provide traffic counts at school entrance to supplement LCDOT traffic counts at Wilson Road intersection.
  - b. Complete VISSIM traffic simulations for public meeting to include pedestrians. No simulations are anticipated for the additional public for the traffic signal alternative.
  - c. Obtain updated traffic count data LCDOT.
  - d. Prepare projected 2040 traffic volumes based on a review of the updated existing traffic data and projected traffic growth.
  - e. Obtain concurrence from LCDOT and CMAP on projected 2040 traffic volumes.
  - f. Determine projected 2040 peak hour traffic at the intersection.
  - g. Revise capacity analysis for 2040 projections for AM and PM peak hours
    - i. Single lane roundabout

## EXHIBIT A – SUPPLEMENT #2 SCOPE OF SERVICES

Wilson Road at Nippersink Road

Intersection Improvement

Section No. 03-00070-06-CH

- ii. 1 ½ lane roundabout
    - iii. Two lane roundabout
    - iv. Three lane traffic signal
    - v. Five lane traffic signal
  - h. Prepare 2040 traffic studies memorandum.
  - i. Conduct traffic signal warrant analysis.
  - j. No existing design studies are identified at this time for traffic signal alternative.
  - k. Revise proposed sidewalk locations for traffic signal alternative.
  - l. Traffic Signal Geometrics at Intersection
    - i. Prepare proposed traffic signal geometrics to minimize impacts.
    - ii. Submit revised proposed traffic signal geometrics for approval by LCDOT.
  - m. Prepare a preliminary proposed roadway profile to meet design speed and drainage requirements for traffic signal alternative.
  - n. Cross Section Analysis for traffic signal alternative
    - i. Prepare proposed cross sections for preliminary alignment and profile.
    - ii. Identify retaining wall locations to minimize right-of-way, wetland impacts, and floodplain fill.
    - iii. Identify right-of-way needs.
  - o. Revise Preliminary Maintenance of Traffic for traffic signal alternative
  - p. No Preliminary Aesthetics are identified at this time for traffic signal alternative.
6. Public Involvement
- a. Update Public Involvement strategy.
  - b. Conduct Dry-Run Public Meeting with LCDOT.
  - c. Public Information Meeting Open House
    - i. Attend one Public Meeting.
    - ii. LCDOT to coordinate site use at Big Hollow School.
    - iii. Prepare and publish public meeting notice.
    - iv. Prepare and distribute public meeting invitation.
    - v. Prepare public meeting brochure, sign-in sheets, and comment forms.
    - vi. Prepare public meeting exhibits.
    - vii. Collect, compile, and respond to public meeting comments.
7. Scoping Report
- a. No additional scoping report scope is anticipated for traffic signal alternative.
8. Plats
- a. Remove all of scope items in Item 8 of the original scope of work including title reports , staking, plat and legal work, and acquisition coordination.

**COST PLUS FIXED FEE  
COST ESTIMATE OF CONSULTANT SERVICES**

DF-824-039  
REV 12/04

**FIRM** TranSystems Corporation  
**PSB** \_\_\_\_\_  
**PRIME/SUPPLEMENT** \_\_\_\_\_

**DATE** 06/12/13

**OVERHEAD RATE** 1.5105  
**COMPLEXITY FACTOR** 0

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)	TOTAL (B-G)	% OF GRAND TOTAL
1. Coordination	36	1,982.88	2,995.14		733.67	661.36		6,373.05	6.49%
4. Drainage Studies	112	4,496.80	6,792.42		1,663.82	33.90		12,986.93	13.22%
5. Design Studies	468	23,243.80	35,109.76		8,600.21	33.90		66,987.67	68.16%
6. Public Involvement	272	11,390.00	17,204.60		4,214.30	264.42		33,073.32	33.65%
8. Plats								-21,147.47	-21.52%
<b>TOTALS</b>	888	41,113.48	62,101.91	0.00	15,211.99	993.58	0.00	98,273.49	100.00%

PREPARED BY THE AGREEMENTS UNIT

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**AVERAGE HOURLY PROJECT RATES**

FIRM  
PSB  
PRIME/SUPPLEMENT

TranSystems Corporation

DATE 05/31/13

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			1. Coordination			4. Drainage Studies			5. Design Studies			6. Public Involvement			Hours	% Part.	Wgtd Avg
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Project Manager (Highway)	70.00	90	10.14%	7.09	18	50.00%	35.00	16	14.29%	10.00	52	11.11%	7.78	56	20.59%	14.41			
Design Engineer III (Highway)	52.63	180	20.27%	10.67							180	38.46%	20.24						
Design Engineer II (Highway)	40.16	282	31.78%	12.75	18	50.00%	20.08	48	42.86%	17.21	144	30.77%	12.36	72	26.47%	10.63			
Design Engineer I (Highway)	30.19	264	29.73%	8.98				48	42.86%	12.94	144	30.77%	9.29	72	26.47%	7.99			
CADD Technician III	33.40	72	8.11%	2.71										72	26.47%	8.84			
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<b>TOTALS</b>		688	100%	\$42.20	36	100.00%	\$55.08	112	100%	\$40.15	468	111%	\$48.67	272	100%	\$41.88	0	0%	\$0.00