

Name of the Project Cedar Lake Road
LCDOT Change Order No. 2

TO: Public Works and Transportation Committee
Financial Administrative Committee

Committee Action Meeting Date

DATE:

DATE:

FROM: _____
Martin G. Buehler, P.E.
County Engineer

SUBJECT: Change Order No. 2
Section No. 00-00266-00-FP

Joint Committee action item approving Change Order No. 2 Consisting of an increase of \$ 11,597.85 for additions to the Phase II Engineering Services for the Cedar Lake Road Extension from IL Rte 120 to IL Route 60, designated as Section No. 00-00266-00-FP

- Cedar Lake Road Extension Phase II, Engineering Services: LCDOT Change Order No.2
- Change Orders need to be approved by the standing committees for cumulative net increases over 10%.
- The Cedar Lake Road Extension, project is under contract with TranSystems Corporation, in the amount of \$ 713,199.00.
- Additional engineering services are being requested for several revisions to the original scope of work as detailed in the attached Supplement No. 2.

Summary:

Original awarded contract:	\$598,493.00
Change Order No. 2 :	\$11,597.85
Sum of all changes:	\$126,303.85

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 07/15/2010

Local Agency: LAKE COUNTY

Request: No. 2

Name: Cedar Lake Road Extension (IL Rte
120 to IL Rte 60) PH II EngineeringTo: Department of Transportation
LCDOT / SCHAUMBURG

Section: 00-00266-00-FP

Consultant: TranSystems Corporation

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

The estimated work is listed below

Original contract amount for services described:	\$598,493.00
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Sum of all previous contract change orders:	\$114,706.00
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Item #	Description	Additions	Deductions
1	Additional work required for environmental services involving the US Army Corps of Engineers, Illinois EPA, US Fish and Wildlife Service required to obtain a Section 404 individual permit rather than a regional permit.	\$11,597.85	
2			
TOTALS		\$11,597.85	\$0.00
NET CHANGE		\$11,597.85	\$0.00

Net ADDITION change to date	\$126,303.85	which is	21.10	% of the original contract amount for services described
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State fully the nature and reason for change:

Please see attached.

Revised contract amount for services described:	\$724,796.85
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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

7/16/10

Engineer of Design

Date

7/27/10

Approval

Recommended

County Engineer

Date

APPROVED

DEPARTMENT OF TRANSPORTATION

Approved

Regional Engineer

County Engineer

On Behalf of IDOT pursuant to Agreement
of Understanding dated January 22, 2003

EXHIBIT A

SCOPE OF ENGINEERING SERVICES

EXHIBIT A - SCOPE OF ENGINEERING SERVICES – SUPPLEMENT #2

Cedar Lake Road Extension
Illinois Route 60 to Illinois Route 120
Section 00-00266-00-FP

The scope of supplemental work includes the addition of additional environmental services for permitting with the U.S. Army Corps of Engineers (USACOE), Illinois Environmental Protection Agency (IEPA), and the U.S. Fish and Wildlife Service (USFWS) for Cedar Lake Road from Town Line Road to Illinois Route 120.

5. Final Environmental Studies and Permitting
 - a. IEPA Anti-degradation Analysis
 - b. USACOE and IEPA Response Preparation
 - c. USFWS Orchid Survey

EXHIBIT B

COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039
REV 12/04
06/22/10

0

01/27/00

PREPARED BY THE AGREEMENTS UNIT

EXHIBIT C

SUBCONSULTANT SERVICES

Huff and Huff, Inc.



environmental engineers
and consultants

915 Harger Road, Suite 330
Oak Brook, IL 60523
Phone: (630) 684-9100
Fax: (630) 684-9120
Website: <http://huffnhuff.com>

June 21, 2010

Jeff Hall
TranSystems Corporation
1051 Perimeter Drive, Suite 1025
Schaumburg, Illinois 60173-5058

**Re: Cedar Lake Road Extension Phase II
(Illinois Route 120 to Town Line Road)
Village of Round Lake, Lake County, Illinois
Supplemental Request
Proposal No. T10-060W (Revised)**

Dear Mr. Hall:

Huff & Huff, Inc. (H&H) is prepared to provide supplemental environmental services for the Cedar Lake Road Extension Phase II project in the Village of Round Lake, Lake County, Illinois. This project will be elevated to Individual Permitting with the Chicago District, Corps of Engineers (COE). The initial delineation, wetland addendum, Lake County Watershed Development Permit submittal, and jurisdictional determination were completed by H&H.

This project includes the Lake County Division of Transportation proposal to extend Cedar Lake Road between Illinois Route 120 (IL 120) and Town Line Road in the Village of Round Lake, Illinois (T45N, R10E, and Section 32). Due to funding, the Cedar Lake Road project was divided into two phases; the construction of Cedar Lake Road from Town Line Road to Illinois Route 60 (Phase I) and the construction of Cedar Lake Road from Illinois Route 120 to Town Line Road (Phase II).

TranSystems Corporation (TS) has requested H&H's assistance with the Individual Permit approval process for the Phase II portion of this project. One element of this Individual Permit is an anti-degradation analysis. The level of effort required to obtain the 401 Water Quality Certification from the Illinois Environmental Protection Agency requires effort beyond the scope previously submitted. H&H will provide assistance to TS in responding to comments received from the regulatory agencies for this project. In addition, a survey for the Eastern Prairie Fringed Orchid has been included. This survey may be requested by U.S. Fish and Wildlife Service. This survey needs to be conducted between June 22nd and July 22nd.

H&H has utilized funds of \$5,764.17 allocated to noise to cover the costs of the Individual Permit for wetlands. However, additional funds are requested to cover the anti-degradation analysis and orchid survey.

The following Scope of Services details the tasks that H&H will undertake to address the issues the regulatory agencies and assist TS in obtaining the Individual Permit for this project.

1. SCOPE OF SERVICES

The proposed extension of Cedar Lake Road between IL 120 and Town Line Road will affect the adjacent COE jurisdictional wetlands, Site 1 and 4.

The Illinois Environmental Protection Agency (IEPA) has requested an anti-degradation analysis be performed as part of the permitting process so that a Section 401 Water Quality Certification can be issued. The IEPA will need to review the antidegradation analysis, issue a separate Public Notice, and then issue the 401 Water Quality Certification. H&H proposes to provide the necessary technical information to obtain the Individual Permit and satisfy the IEPA requirements.

To complete an anti-degradation analysis, assist in the Individual Permit approval process, and to provide concepts to mitigate any impacts, the following tasks are proposed:

Task 1 - Anti-degradation Analysis

An anti-degradation analysis is required by the Illinois Environmental Protection Agency for a Section 401 Water Quality Certification as part of the Individual Permit process. Pollutants have the potential to enter the wetland systems via transport by storm water runoff. This transport is occurring presently and will occur in the future. The anti-degradation analysis will evaluate how the proposed development will change the pollutant loadings based on the data available. This will include temporary construction impacts. The anti-degradation analysis will need to address specific questions as identified in 35 IAC 302.105. This analysis will account for changes in water quality as a result of the construction of Cedar Lake Road to COE jurisdictional wetland Sites 1 and 4.

1. Data Collection

- a. Wetland Sites 1 and 4 water quality (historic and current) and wetland information
- b. Existing and proposed drainage patterns, including impervious area and storm water runoff volumes
- c. Removal efficiencies for proposed BMPs and other pollutant removal practices (i.e. silt curtains and swales)

2. Pollutant Loading Analysis Calculation

- a. Describe pollutants in runoff from existing land uses, sediment quality, and existing water quality.
- b. Proposed condition loading for suspended solids and any pollutants, such as nutrients. It is anticipated that the proposed project will not affect existing water quality other than possible temporary elevation of suspended sediment during construction.

1. Without proposed BMPs
2. With proposed BMPs
3. Loadings and impacts for possible alternatives

Task 2 – IEPA and COE Response Preparation

H&H will assist TS in the development of responses to the comments received as part of the Section 404 and Section 401 public notice. This also includes coordination time with IEPA and the USCOE.

Task 3 – Orchid Survey

H&H will utilize a methodology previously approved by U.S. Fish and Wildlife Service to conduct the orchid survey. This requires one person searching three non-consecutive days between June 22nd and July 22nd. A brief letter documents these findings.

2. PROJECT COSTS

Table 1 summarized the estimated costs for completing the anti-degradation analysis and providing permitting assistance for the proposed Cedar Lake Road Extension Phase II project. These costs are dependent upon data availability and coordination efforts. The detailed cost estimate is attached.

TABLE 1
SUMMARY OF ESTIMATED COSTS BY TASK

TASK	MANHOURS	ESTIMATED COST, \$
Task 1: Anti-degradation Analysis	80	\$ 7,800
Task 2: IEPA and COE Response/Meetings	20	\$ 1,713
Task 3: Orchid Survey	28	\$ 2,085
Total Cost	128	\$11,598

3. CONTRACT CONDITIONS

1. **CONSULTANT'S SERVICES:** The Consultant's (Huff & Huff, Inc.) services shall consist of those tasks described in Section 1.
2. **SCHEDULE:** The Consultant's work under this Agreement shall begin immediately.
3. **COMPENSATION:** The fee basis is outlined in Section 2.



Cost Estimate of Consultant Services (CPFF)

Firm	Huff & Huff, Inc.	Date	06/22/10
Route	Cedar Lake Road Extension		
Section	Phase II	Overhead Rate	155.00%
County	Lake		
Job No.	Supplement	Complexity Factor	0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
Anti-degradation Analysis	80	2,671.57	4,140.94	0.00	987.81	0.00	0.00	7,800.32	67.26%
IEPA Response	20	586.79	909.53	0.00	216.97	0.00	0.00	1,713.29	14.77%
Orchid Survey	28	682.08	1,057.22	81.00	263.94	0.00	0.00	2,084.25	17.97%
TOTALS	128	3,940.44	6,107.69	81.00	1,468.72	0.00	0.00	11,597.85	100.00%

Method of Compensation:

Cost Plus Fixed Fee 1

Cost Plus Fixed Fee 2

Cost Plus Fixed Fee 3

Specific Rate

Lump Sum

<input checked="" type="checkbox"/>	14.5%[DL + R(DL) + OH(DL) + IHDC]
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$$14.5\%[\text{DL} + \text{R}(\text{DL}) + 1.4(\text{DL}) + \text{HDC}]$$

14.5%[(2.3 + R)DL + IHDC]

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Illinois Department
of Transportation

Average Hourly Project Rates

Route Cedar Lake Road Extension

Section Phase II

County Lake

Job No.

PTB/Item

Consultant

Huff & Huff, Inc.

Date 06/22/10

Sheet 1 OF 1

Payroll Classification	Total Project Rates			Anti-degradation Analysis			IEPA Response			Orchid Survey					
	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal	7	5.47%	3.43	5	6.25%	3.92	2	10.00%	6.26						
Senior Scientist IV	20	15.63%	6.44	20	25.00%	10.30									
Senior Scientist III	22	17.19%	6.17	20	25.00%	8.97	2	10.00%	3.59						
Senior Scientist I	74	57.81%	14.08	30	37.50%	9.14	16	80.00%	19.49	28	100.00%	24.36			
Wetland Scientist II	0														
CADD I	3	2.34%	0.37	3	3.75%	0.60									
Administrative III	2	1.56%	0.30	2	2.50%	0.48									
	0														
	0														
	0														
	0														
TOTALS	128	100%	\$30.78	80	100%	\$33.39	20	100%	\$29.34	28	100%	\$24.36	0	0%	\$0.00