

Municipality	L O C A L A G E N C Y	 Illinois Department of Transportation	C O N S U L T A N T	Name TranSystems Corporation	
Township				Address 1475 E. Woodfield Road S-600	
County Lake County – Division of Transportation		Preliminary Engineering Services Agreement For Non-Motor Fuel Tax Funds		City Schaumburg	
Section				State Illinois	

THIS AGREEMENT is made and entered into this _____ day of _____, _____ 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 Butterfield Road Bike Path

Route CH W11 Length 1.70 Mi. _____ FT (Structure No. _____)

Termini WCL Railroad tracks to Golf Road

Description:

Locally funded engineering studies to complete design plans for construction of a bike path from the WCL Railroad tracks to Allanson Road, and to complete a feasibility study from Allanson Road to Golf Road.

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 and** 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.

The LA Agrees,

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	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%

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 CECS**

The Total Not-to-Exceed Contract Amount shall be \$313244.00 (see Attachments A and B)

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 ****** 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 ****** 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.

****See the CECs**

It is Mutually Agreed,

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 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 quintuplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

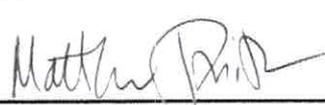
Executed by the LA:

ATTEST: _____ County of Lake _____ of the
 (Municipality/Township/County)
 State of Illinois, acting by and through its
 County Board
 By _____
 Lake County Clerk
 (Seal) Title Chair, Lake County Board

RECOMMENDED FOR EXECUTION

 Shane E. Schneider, P.E.
 Director of Transportation/County Engineer
 Lake County

Executed by the ENGINEER:

ATTEST: _____ TranSystems Corporation
 Engineering Firm
 1475 E. Woodfield Road, Suite 600
 Street Address
 Schaumburg, Illinois 60173
 City, State
 By  _____ By  _____
 Title Assistant Vice President Title Senior Vice President

Note: Three (3) Original Executed Contracts – (2) LCDOT; (1) Consultant

Attachment A



TranSystems

1475 East Woodfield Road
Suite 600
Schaumburg, IL 60173
Tel 847 605 9600
Fax 847 605 9610

www.transystems.com

Butterfield Road Bike Path – Contract Plans
July 31, 2020

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

This scope of services consists tasks related to adding a bike path along Butterfield Road from the CN/WCL Railroad to Allanson Road/Greggs Parkway, a distance of approximately 0.6 miles.

The task is to provide design engineering services for the preparation of contract plans and documents for the addition of a bike path along the east side of Butterfield Road between the CN/WCL Railroad and Allanson Road/Greggs Parkway, a distance of approximately 3,100 feet (0.6 miles). It is assumed that the new bike path will fit in the area between the back of curb and the right-of-way on the east side of Butterfield Road. However, close to the intersection of Butterfield Road and Allanson Road/Greggs Parkway, and at a second location where the existing ground is much lower than the roadway closer to Campus Drive, permanent easements will be required. Near the Allason Road/Greggs Parkway intersection, the existing right-of-way narrows and a permanent easement is needed from the homeowners association property. It is assumed that the proposed bike path will tie into the existing bike path north of the CN/WCL Railroad crossing with no modifications to the existing crossing.

The below scope and manhours are based on an anticipated Notice to Proceed in early October and an anticipated April 13, 2021 project letting.

The following is a summary of the items that are included in the proposed scope of services:

Butterfield Road Bike Path Design from CN/WCL Railroad to Allanson Road/Greggs Parkway

1. Data Collection and Utility Coordination

- A. Obtain and review project information from LCDOT and other appropriate agencies: roadway and bikeway plans and development plans. Obtain stationing information from LCDOT for Butterfield Road.
- B. Verify existing wetland locations with Lake County GIS maps.
- C. Conduct one site visit with the project team to document project features and review existing conditions.
- D. Utility Coordination
 1. Coordinate with JULIE to obtain listing of potential utility facilities within the project limits. Follow up coordination with each utility company to request atlases. Coordinate with Village of Vernon Hills to identify potential facilities within the project limits. Develop coordination log for correspondence.

Exhibit A – SCOPE OF ENGINEERING SERVICES

Butterfield Road Bike Path – Contract Plans

- 2. Add utility information to topographic survey information.
- 3. Identify potential utility conflicts with preferred alignment and coordinate with utility companies for necessary adjustments and relocations. (Meetings included in meeting task below)
- E. Environmental Coordination
 - 1. Pre-Mobilization and Due Diligence (Huff & Huff)
 - 2. Soil Borings, Sampling and Laboratory Analysis (Huff & Huff)
 - 3. LPC Form Documentation (Huff & Huff)
 - 4. Biological and Cultural Clearances (Huff & Huff)
 - 5. Coordinate Environmental work with Huff & Huff

2. Field Survey

All survey shall be done in accordance with LCDOT Design Survey Procedures. All plat preparation shall be done in accordance with LCODT plat guidelines.

- A. Conduct topographic survey for half ROW width (Jorgensen & Associates)
- B. Set horizontal control and tie points (Jorgensen & Associates)
- C. Survey and preparation of plats for 2 permanent easements (Jorgensen & Associates) – note this task will only be completed if needed – approval from LCDOT will be requested before beginning.
- D. Coordinate Survey

3. Preliminary Design and ROW Investigation

- A. Preliminary alignment studies to establish path location
- B. Preliminary drainage investigation
- C. Preliminary cross sections to confirm ROW needs

4. Contract Plans and Documents

- A. It is anticipated that the following sheets prepared by TranSystems will be included in the contract plans. Plan submittals include Pre-Final, Final and Bid. LCDOT Plan Preparation Guidelines will be followed.

Sheet Description	No. of Sheets
Title Sheet	1
Index Sheet, General Notes and Highway Standards	1
Summary of Quantities	1
Existing and Proposed Typical Sections	1
Schedule of Quantities	4
Alignment, Ties and Benchmarks	2

Exhibit A – SCOPE OF ENGINEERING SERVICES

Butterfield Road Bike Path – Contract Plans

Sheet Description	No. of Sheets
Removal and Proposed Plan and Profile (1"=20')	7
Construction Staging Plan (1"=20') and Notes (Assumed 1 stage)	2
Erosion and Sediment Control Plan (1"=20')	4
Traffic Signal Plans (Butterfield/Allanson/Greggs Parkway)*: Traffic Signal Installation Plan (2 sheets) Schedule of Quantities, Cable Plan (1 sheet)	3
ADA Details (Butterfield/Allanson/Greggs Parkway 4 corners)	2
LCDOT Standard Detail Sheets	10
IDOT Highway Standards	10
Cross Sections (@ 50' stations, 1"=5' horizontal, 1"=5' vertical)	20

* It is assumed that the traffic signal modifications will only include modification, relocation or addition of pedestrian push button posts or signal posts at all four corners of the intersection of Butterfield Road and Allanson/Greggs Parkway. It is also assumed that the ADA details will need to be coordinated with the LCDOT project for Adaptive Signals currently scheduled for a November 2020 letting. It is also noted that the NB right-turn overlap phase may need to be adjusted during staging; this or any other temporary modification to existing signal installation to accommodate the work zone staging is anticipated to be covered with a note and no temporary traffic signal installation plan is anticipated.

- B. Prepare quantity calculations, schedule of quantities, and quantity summaries and estimate of costs based on current contract unit prices.
- C. Prepare and submit project specific special provisions. LCDOT to prepare contract special provisions and incorporate project specific special provisions from Consultant.
- D. Prepare estimate of time.
- E. Submit contract plans, special provisions, cost estimate and estimate of time to LCDOT and Village of Vernon Hills for review (PDF and Excel). Prepare and submit disposition of comments.
- F. Update, review, and submit CADD files to LCDOT after the Final Submittal.

5. Permitting

- A. Prepare application for NPDES Permit including Stormwater Pollution Prevention Plan (SWPPP), Notice of Intent and Notice of Termination. LCDOT to submit permit and forms during Phase 3.
- B. Lake County SMC Watershed Development Ordinance Permit – not anticipated due to impacting less than 1.5 acres per mile.
- C. Special Waste - LPC 663 form and pre-approval letters if material identified to be completed by Huff & Huff

Exhibit A – SCOPE OF ENGINEERING SERVICES

Butterfield Road Bike Path – Contract Plans

6. Meetings

- A. General Kick-off Meeting (1 anticipated)(assumed virtual meeting)
- B. LCDOT Coordination Meetings (3 anticipated) (assumed virtual meeting)
- C. LCDOT Plan Review Meetings (1 anticipated) (assumed virtual meeting)
- D. Vernon Hills Coordination Meetings (2 anticipated) (assumed virtual meeting)
- E. Utility Coordination Meetings (2 anticipated)
- F. Pre-Construction Meeting (1 anticipated)

7. Phase III Coordination

- A. Provide engineering services to answer questions about the intent of the design, and offer assistance to make design changes necessary during construction of the project.

8. Project Management and QA/QC

- A. Prepare and submit monthly progress reports.
- B. Project management including contract administration, budget control, and internal project team meetings. Prepare and monitor the project schedule and update the schedule periodically as tasks or project scheduling change, as well as perform scope of work reviews, resource planning, internal team coordination, contract administration, and invoicing.
- C. Establish and adhere to an approved project QA/QC plan.
- D. Provide project QA/QC for all submittals.

Assumptions

It is assumed that this project will be a local LCDOT letting. No IDOT/FHWA coordination is anticipated and no hours are included in the scope for this.

The following tasks or items were not included in this scope of services.

- A. Replacement of landscaped areas is not included. Only seeding and/or sodding will be included in the plans.
- B. Intergovernmental Agreements
- C. Preparation of funding applications
- D. Structural and geotechnical studies. If the preliminary studies determine the need for a retaining wall, these will be added as a supplement at that time.

MANHOUR SUMMARY

Butterfield Road Bike Path
 Lake County Division of Transportation
 Bike Path Design (CN/WCL Railroad to Allanson Road/Gregg's Parkway)
 7/31/20

<u>Task</u>	<u>Item</u>	<u>Number of Sheets</u>	<u>Manhours Per Sheet</u>	<u>Total Manhours</u>
Task 1	<u>Data Collection</u>			
	a Review Record Plan Information			24
	b Verify existing wetland locations with Lake County GIS			8
	c Field Visit (1 visit * 2 people * 8 hours)			16
	d Utility Coordination			24
	e Environmental Coordination			16
	Environmental Work to be completed by Huff & Huff			0
	Task 1 Subtotal			88
Task 2	<u>Field Survey</u>			
	a Conduct Survey (Jorgensen& Associates)			0
	b Set horizontal control and tie points (Jorgensen & Associates)			0
	c Survey and preparation of plats for 2 permanent easements (Jorgensen & Associates)			0
	d Coordinate Survey			16
	Task 2 Subtotal			16
Task 3	<u>Preliminary Design and ROW Investigation</u>			
	a Alignment Studies			24
	b Drainage Investigation			16
	c Preliminary Cross Sections			24
	Task 3 Subtotal			64
Task 4	<u>Contract Plans and Documents</u>			
	Scope of Work: This improvement includes an off street bike path along the east side of Butterfield Road from north of the CN/WCL railroad crossing to Allanson Road/Gregg's Parkway.			
A	<u>Contract Plans</u>			
	a Title Sheet	1	16	16
	b Index Sheet, General Notes and Highway Standards	1	24	24
	c Summary of Quantities	1	8	8
	d Existing and Proposed Typical Sections	1	24	24
	e Schedule of Quantities	4	8	32
	f Alignment, Ties and Benchmarks (1" = 100')	2	24	48
	g Removal and Proposed Plan and Profile Plans (1"= 20')	7	40	280
	h Traffic Control - General Notes, Narrative and Typical Sections	1	24	24
	i Traffic Control - Plans (1"=20')	1	24	24
	j Erosion and Sediment Control Plans (1"=20')	4	16	64
	k Traffic Signal Modifications (1"-20')	3	20	60
	l ADA Details (1"=10') (4 ramps, 2 per sheet)	2	32	64
	m LCDOT Standard Detail Sheets	10	0.5	5
	n IDOT Highway Standards and District Details	10	0.5	5

MANHOUR SUMMARY

Butterfield Road Bike Path
 Lake County Division of Transportation
 Bike Path Design (CN/WCL Railroad to Allanson Road/Gregg's Parkway)
 7/31/20

<u>Task</u>	<u>Item</u>	<u>Number of</u> <u>Sheets</u>	<u>Manhours</u> <u>Per Sheet</u>	<u>Total</u> <u>Manhours</u>
	o Cross Sections (50' xsec)	20	14	280
B	Quantity Calculations and Opinion of Cost			100
C	Project Specific Special Provisions (LCDOT to prepare full special provision package)			32
D	Estimate of Time			16
E	Submittal (including dispositions of comments)			28
F	CADD Files			4
	Task 4 Subtotal	68	Sheets	1,138
Task 5	<u>Permits</u>			
	a NPDES			32
	b Lake County SMC Watershed Development Ordinance permit (none anticipated)			0
	c Special Waste LPC 663 (Huff & Huff)			0
	Task 5 Subtotal			32
Task 6	<u>Meetings</u>	No. Meetings	Hours Per Meeting	
	a General Kick-Off Meeting	1	8	8
	b LCDOT Coordination Meetings	3	8	24
	c LCDOT Plan Review Meetings	2	8	16
	d Vernon Hills Coordination Meetings	2	8	16
	e Utility Coordination Meetings	2	12	24
	f Pre-Construction Meeting	1	12	12
	Task 6 Subtotal			100
Task 7	<u>Phase III Coordination</u>			
	a Civil RFI review & coordination			20
	Task 7 Subtotal			20
Task 8	<u>Project Management and QA/QC</u>	Months	Hours per Month	
	a Prepare and submit monthly progress reports	12	2	24
	b Project Management			24
	c Establish and adhere to an approved QA/QC Plan			8
	d QA/QC for submittals			64
	Task 8 Subtotal			120
OVERALL TOTAL				1,578

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME TranSystems Corporation
 PRIME/SUPPLEMENT _____
 Prepared By Jennifer Golemba

DATE 7/30/2020
 PTB-ITEM# 0

CONTRACT TERM 12 MONTHS
 START DATE 9/1/2020
 RAISE DATE 1/1/2021
 END DATE 8/31/2021

OVERHEAD RATE 151.94%
 COMPLEXITY FACTOR 0
 % OF RAISE 3%

ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	9/1/2020	1/1/2021	4	33.33%
1	1/2/2021	9/1/2021	8	68.67%

The total escalation = 2.00%

PAYROLL RATES

FIRM NAME TranSystems Corporatio DATE 7/30/2020
 PRIME/SUPPLEMENT 0
 PTB-ITEM # 0

ESCALATION FACTOR 2.00%

Note: Rates should be capped on the AVG 1 tab as necessary

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer 5 (E5)	\$70.00	\$71.40
Engineer 4 (E4)	\$70.00	\$71.40
Engineer 3 (E3)	\$58.55	\$59.72
Engineer 2 (E2)	\$45.68	\$46.59
Engineer 1 (E1)	\$34.92	\$35.62
Planner 5 (P5)	\$60.00	\$61.20
Planner 4 (P4)	\$60.00	\$61.20
Planner 3 (P3)	\$44.39	\$45.28
Architect 5 (AR5)	\$60.00	\$61.20
Architect 4 (AR4)	\$60.00	\$61.20
Architect 3 (AR3)	\$57.63	\$58.78
Architect 2 (AR2)	\$40.16	\$40.96
Architect 1 (AR1)	\$34.62	\$35.31
Environmental Scientist 4 (E)	\$60.00	\$61.20
Industry Specialist 3 (IS3)	\$53.18	\$54.24
Industry Specialist 2 (IS2)	\$39.14	\$39.92
Construction Services 4 (CS)	\$51.53	\$52.56
Construction Services 3 (CS)	\$40.50	\$41.31
Technician 5 (T5)	\$60.00	\$61.20
Technician 3 (T3)	\$36.00	\$36.72
Technician 1 (T1)	\$20.34	\$20.75
Administrative 3 (A3)	\$49.96	\$50.96
Administrative 2 (A2)	\$37.53	\$38.28
Administrative 1 (A1)	\$24.70	\$25.19



AVERAGE HOURLY PROJECT RATES

FIRM TranSystems Corporation
 PTB-ITEM# 0
 PRIME/SUPPLEMENT 0

DATE #####

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1 Data Collection			2 Field Survey			3 Prelim Design and ROW			4 Contract Plans			5 Permits		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer 5 (E5)	70.00	18.0	1.14%	0.80	2	2.27%	1.59				2	3.13%	2.19	8	0.70%	0.49			
Engineer 4 (E4)	70.00	98.0	6.21%	4.35	4	4.55%	3.18				4	6.25%	4.38	60	5.27%	3.69	2	6.25%	4.38
Engineer 3 (E3)	59.72	366.0	23.19%	13.85	18	20.45%	12.22	6	37.50%	22.40	18	28.13%	16.80	248	21.79%	13.01	10	31.25%	18.66
Engineer 2 (E2)	46.59	424.0	26.87%	12.52	30	34.09%	15.88	4	25.00%	11.65	18	28.13%	13.10	362	31.81%	14.82	10	31.25%	14.56
Engineer 1 (E1)	35.62	486.0	30.80%	10.97	30	34.09%	12.14	6	37.50%	13.36	18	28.13%	10.02	342	30.05%	10.70	10	31.25%	11.13
Planner 5 (P5)	60.00	0.0																	
Planner 4 (P4)	60.00	0.0																	
Planner 3 (P3)	45.28	0.0																	
Architect 5 (AR5)	60.00	0.0																	
Architect 4 (AR4)	60.00	0.0																	
Architect 3 (AR3)	58.78	0.0																	
Architect 2 (AR2)	40.96	0.0																	
Architect 1 (AR1)	35.31	0.0																	
Environmental Scientist 4 (S)	60.00	0.0																	
Industry Specialist 3 (IS3)	54.24	0.0																	
Industry Specialist 2 (IS2)	39.92	0.0																	
Construction Services 4 (CS)	52.56	0.0																	
Construction Services 3 (CS)	41.31	0.0																	
Technician 5 (T5)	60.00	0.0																	
Technician 3 (T3)	36.72	126.0	7.98%	2.93	4	4.55%	1.67				4	6.25%	2.30	118	10.37%	3.81			
Technician 1 (T1)	20.75	0.0																	
Administrative 3 (A3)	50.96	0.0																	
Administrative 2 (A2)	38.28	60.0	3.80%	1.46															
Administrative 1 (A1)	25.19	0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		1578.0	100%	\$46.87	88.0	100.00%	\$46.68	16.0	100%	\$47.40	64.0	100%	\$48.78	1138.0	100%	\$46.53	32.0	100%	\$48.73

Route: Butterfield Road Bike Path Contract Plans
 Lake County Division of Transportation

Direct Cost Summary

Contract Plans Direct Costs

1. Data Collection

Mileage

2 trips @	50 miles/trip	\$ 0.575 /mile	\$ 58
		Subtotal	\$ 58

4. Contract Plans

Mileage

2 trips @	50 miles/trip	\$ 0.575 /mile	\$ 58
		Subtotal	\$ 58

Printing

No. Copies

Letter Size	100 sheets @	20	\$0.10 /sheet	\$ 200
11x17 Size	68 sheets @	20	\$0.50 /sheet	\$ 680
				\$ 880

FedEx/Messenger Service

10 deliveries @		\$ 25.00 /delivery	\$ 250
		Subtotal	\$ 1,188

6. Meetings

Mileage

3 meetings @	50 miles/trip	\$ 0.575 /mile	\$ 86
		Subtotal	\$ 86

Task 1 Total	\$ 1,332
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TOTAL DIRECT COSTS \$ 1,332



JORGENSEN & ASSOCIATES, INC.
LAND SURVEYORS
Est. 1990

July 30, 2020

Mr. Matthew J. Smith, P.E.
TranSystems Corporation
1475 East Woodfield Road
Suite 1475
Schaumburg, Illinois 60173

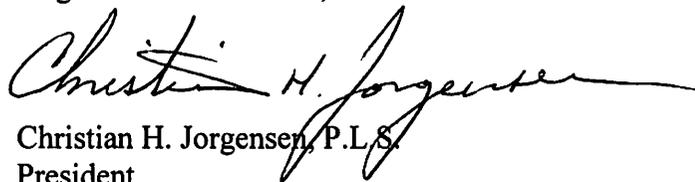
Re: Village of Vernon Hills – Butterfield Road Survey Proposal

Dear Mr. Smith:

Enclosed, please find our proposal to prepare a topographic survey for the referenced project. Our proposal is based on your email of June 17th, our telephone conversations and Jennifer Golemba's email of June 19th.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to continuing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,
Jorgensen & Associates, Inc.


Christian H. Jorgensen, P.L.S.
President

CHJ/pt

Enclosures

E:\Transystems\Vernon Hills\Butterfield Rd\Letter

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.81%
State Unemployment Compensation _____	0.47%
Federal Unemployment Compensation _____	0.11%
Workmen's Compensation Insurance _____	0.95%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	9.83%
Bonus _____	11.78%
Pension _____	0.98%
Group Insurance _____	<u>37.83%</u>
Total Payroll Burden & Fringe Costs	73.76%

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.72%
Depreciation _____	11.00%
Indirect wages and salaries _____	42.74%
Reproductive and printing costs _____	0.23%
Office Supplies _____	2.99%
Computer Costs _____	2.19%
Professional Fees _____	1.94%
Telephone _____	1.89%
Fees, license & dues _____	0.88%
Repairs and maintenance _____	1.77%
Business space rent _____	4.94%
Facilities - capital _____	0.72%
Travel - Meals _____	0.26%
Survey Supplies _____	2.60%
Automobile/travel expense _____	0.41%
Miscellaneous Expense _____	0.76%
State Income Tax _____	1.67%
Postage _____	0.20%
Educational & Professional Registrations _____	0.23%
Gain on Sale of Asset _____	<u>(1.33%)</u>
 Total Overhead	 80.81%

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME Jorgensen & Associates, Inc.
PRIME/SUPPLEMENT Prime

DATE 06/23/20
PTB NO. _____

CONTRACT TERM 12 MONTHS
START DATE 7/1/2020
RAISE DATE 1/1/2021

OVERHEAD RATE 154.57%
COMPLEXITY FACTOR _____
% OF RAISE 0.00%

ESCALATION PER YEAR

7/1/2020 - 1/1/2021

1/2/2021 - 7/1/2021

6
12

6
12

= 50.00%
= 1.0000

50.00%

The total escalation for this project would be:

0.00%

AVERAGE HOURLY PROJECT RATES

FIRM Jorgensen & Associates, Inc.
 PSB _____
 PRIME/SUPPLEMENT Prime

DATE 06/23/20

SHEET 1 OF 1

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES			(1) Field-Topographic Survey			(2) Office-Compile Field Data			(3) Office-Create Existing Topography Base File			(4) Office-Create T.I.N. & Contours			(5) QC/QA		
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Principal/Officer	48.00	2	1.50%	0.72															
Supervisor, P.L.S.	44.00	11	8.27%	3.64				4	36.36%	16.00							7	100.00%	44.00
Survey Party Chief, P.L.S.	29.50	45	33.83%	9.98	45	50.00%	14.75												
Instrument Operator	23.00	45	33.83%	7.78	45	50.00%	11.50												
Cadd Supervisor	33.00	30	22.56%	7.44				7	63.64%	21.00	20	100.00%	33.00	3	100.00%	33.00			
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TOTALS		133	100%	\$29.57	90	100.00%	\$26.25	11	100%	\$37.00	20	100%	\$33.00	3	100%	\$33.00	7	100%	####

AVERAGE HOURLY PROJECT RATES

FIRM Jorgensen & Associates, Inc.
PSB _____
PRIME/SUPPLEMENT Prime

DATE 06/23/20

SHEET 2 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	(6) Coordination Meeting																	
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg			
Principal/Officer	48.00	2	100.00%	48.00															
Supervisor, P.L.S.	44.00																		
Survey Party Chief, P.L.S.	29.50																		
Instrument Operator	23.00																		
Cadd Supervisor	33.00																		
TOTALS		2	100%	\$48.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

**Manhour Breakdown
Topographic Survey Estimate**

Butterfield Road ± 3,200' = ± 0.606 mile

Total Length ± 3,200' = ± 0.606 mile

1. Field – Topographic Survey

- a. Measure G.P.S., traverse and level circuit
9 hours x 2 men = 18 MH

- b. Locate existing topography
36 hours x 2 men = 72 MH

- Sub-total Item #1 90 MH

2. Office - Compile Field Data

- a. Compute G.P.S., traverse and level circuit
4 hours x 1 man = 4 MH

- b. Edit & compile topographic survey
7 hours x 1 man = 7 MH

- Sub-total Item #2 11 MH

3. Office - Create Existing Topography Base File

- a. Layout and drafting
20 hours x 1 man = 20 MH

4. Office - Create T.I.N. & Contours

- a. Compute contours
3 hours x 1 man = 3 MH

5. QC/QA

a. Check topographic survey
6 hours x 1 man =

6 MH

b. Check contours
1 hour x 1 man =

1 MH

Sub-total Item #5 7 MH

6. Coordination Meeting

2 hours x 1 man =

2 MH

Total All Items 133 MH

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

1. Field - Topographic Survey

a. Trips to project site - 6 each
 $\pm 34 \text{ miles/trip} \times 6 \text{ trips} = \pm 204 \text{ miles}$
 $\pm 204 \text{ miles @ } \$0.57/\text{mile} =$ \$ 116.28

6. Coordination Meeting

a. Meeting @ TranSystems' office
 $\pm 60 \text{ miles/trip} \times 1 \text{ trip} = \pm 60 \text{ miles}$
 $\pm 60 \text{ miles @ } \$0.57/\text{mile} =$ \$ 34.20

Total All Items \$ 150.48



JORGENSEN & ASSOCIATES, INC.
LAND SURVEYORS
Est. 1990

July 30, 2020

Mr. Matthew J. Smith, P.E.
TranSystems Corporation
1475 East Woodfield Road
Suite 1475
Schaumburg, Illinois 60173

Re: Village of Vernon Hills – Butterfield Road Survey Proposal

Dear Mr. Smith:

Enclosed, please find our proposal to prepare a statutory plat of highways with legal descriptions for the referenced project. Our proposal is based on your email of June 17th, our telephone conversations and Jennifer Golemba's email of June 19th.

I would like to thank you for considering Jorgensen & Associates for this project. We look forward to continuing a working relationship with your firm. Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,
Jorgensen & Associates, Inc.

Christian H. Jorgensen, P.L.S.
President

CHJ/pt

Enclosures

E:\Transystems\Vernon Hills\Butterfield Rd\Letter

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.81%
State Unemployment Compensation _____	0.47%
Federal Unemployment Compensation _____	0.11%
Workmen's Compensation Insurance _____	0.95%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	9.83%
Bonus _____	11.78%
Pension _____	0.98%
Group Insurance _____	<u>37.83%</u>
Total Payroll Burden & Fringe Costs	73.76%

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.72%
Depreciation _____	11.00%
Indirect wages and salaries _____	42.74%
Reproductive and printing costs _____	0.23%
Office Supplies _____	2.99%
Computer Costs _____	2.19%
Professional Fees _____	1.94%
Telephone _____	1.89%
Fees, license & dues _____	0.88%
Repairs and maintenance _____	1.77%
Business space rent _____	4.94%
Facilities - capital _____	0.72%
Travel - Meals _____	0.26%
Survey Supplies _____	2.60%
Automobile/travel expense _____	0.41%
Miscellaneous Expense _____	0.76%
State Income Tax _____	1.67%
Postage _____	0.20%
Educational & Professional Registrations _____	0.23%
Gain on Sale of Asset _____	<u>(1.33%)</u>
 Total Overhead	 80.81%

**PAYROLL ESCALATION TABLE
FIXED RAISES**

FIRM NAME Jorgensen & Associates, Inc.
PRIME/SUPPLEMENT Prime

DATE 07/30/20
PTB NO. _____

CONTRACT TERM 12 MONTHS
START DATE 8/1/2020
RAISE DATE 2/1/2021

OVERHEAD RATE 154.57%
COMPLEXITY FACTOR _____
% OF RAISE 0.00%

ESCALATION PER YEAR

8/1/2020 - 2/1/2021

2/2/2021 - 8/1/2021

[]

[]

[]

6

12

6

12

= 50.00%
= 1.0000

50.00%

The total escalation for this project would be:

0.00%

Route: Butterfield Road
 Section: CN Railroad to Greggs Parkway
 County: Lake
 Job No.:

**Manhour Breakdown
 Land Acquisition Estimate**

Length of Project

Butterfield Road \pm 3,200' = \pm 0.606 mile
 Total Length \pm 3,200' = \pm 0.606 mile

2 Parcels: 2 Permanent Easement

1. Pre-Survey Phase
 Research available records

a.	Title Co.)	
)	
b.	Recorder's Office)	
)	
c.	I.D.O.T.)	
)	
d.	Utilities)	
)	
e.	Private Surveyors)	
)	
f.	Land Owners)	<u>1 MH</u>

Sub-total Item # 1 1 MH

2. Reconnaissance Survey 2 Men 2 MH

3. Project Survey Plan \pm 2,640'/sheet - 2 sheets

a.	Alignment info)	
)	
b.	Existing R.O.W. info)	
)	
c.	Land line data)	
)	
d.	Subdivision data)	2 sheets

Sub-total Item #3 2 MH
 2 MH

4.	First Submittal Plat of Highways & Descriptions		
a.	Ownership info)	
)	
b.	Total holding boundaries)	
)	
c.	Total holding area listing)	1 MH
)	
d.	Private survey info)	
)	
e.	Deed calculated closures)	
f.	Layout and drafting	$\pm 800'/\text{sht.} \pm 4 \text{ sheets}$	
	60 hours x 1 man =		60 MH
	Cover Sheet	1 sheet	
	1 hour x 1 man =		1 MH
	Alignment sheets	1 sheet	
	2 hours x 1 man =		2 MH
	Total Holding sheets	1 sheet	
	4 hours x 1 man =		4 MH
g.	Legal descriptions	2 descriptions	<u>2 MH</u>
		Sub-total Item #4	70 MH
5.	Survey (Field)		
a.	Measure traverse		
	3 hours x 2 men =		6 MH
b.	Search and locate existing R.O.W. lines		
	24 hours x 2 men =		48 MH
c.	Monument & reference section & quarter corners		
	1 hour x 2 men =		2 MH
d.	Monument existing center line alignment		
	4 hours x 2 men =		8 MH
e.	Monument proposed R.O.W. lines		
	11 hours x 2 men =		<u>22 MH</u>
		Sub-total Item #5	86 MH

6.	Survey (Office)		
	a.	Research records 1 hour x 1 man =	1 MH
	b.	Compute existing R.O.W. lines 20 hours x 1 man =	20 MH
	c.	Compute existing property lines 6 hours x 1 man =	6 MH
	d.	Compute proposed R.O.W. 2 hours x 1 man =	<u>2 MH</u>
		Sub-total Item #6	29 MH
7.	Final Submittal Plat of Highways & Descriptions		
	a.	Final drafting \pm 7 sheets 2 hours x 1 man =	2 MH
	b.	Final descriptions 2 descriptions	1 MH
	a.	Prepare & record Monument Records 1 Monument Record	3 MH
	d.	Assembly of final papers	<u>3 MH</u>
		Sub-total Item #7	9 MH
8.	QC/QA		
	a.	Check preliminary plats 7 sheets	19 MH
	b.	Check preliminary legal descriptions 2 legal descriptions	1 MH
	c.	Check final plats 7 sheets	1 MH
	d.	Check final legal descriptions 2 legal descriptions	<u>1 MH</u>
		Total All Items	221 MH

(3)

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

1. Pre-Survey Phase

a. Deeds & Miscellaneous Records =	\$ 95.00
b. Trip to County Recorder – 1 each ± 30 miles/trip x 1 trip = ± 30 miles ± 30 miles @ \$0.57/mile =	<u>\$ 17.10</u>
Sub-total Item #1	\$ 112.10

4. First Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars 7 sheets @ \$5.00/sheet =	\$ 35.00
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5. Survey (Field)

a. Trips to project site - 6 each ± 34 miles/trip x 6 trips = ± 204 miles ± 204 miles @ \$0.57/mile =	\$ 116.28
---	-----------

7. Final Submittal Plat of Highways & Descriptions

a. Trip to County Recorder ± 30 miles/trip x 1 trip = ± 30 miles ± 30 miles @ \$0.57/mile =	\$ 17.10
b. Record Monument Records 1 Monument Record @ \$60 =	\$ 60.00
c. Deliver Final Papers to Lake County office ± 22 miles/trip x 1 trip = ± 22 miles ± 22 miles @ \$0.57/mile =	<u>\$ 12.54</u>

Total All Items \$ 353.02

Route: Butterfield Road
Section: CN Railroad to Greggs Parkway
County: Lake
Job No.:

**Breakdown of
Services by Others**

Item

1. Pre-Survey Phase

a. Commitments for Title Insurance 2 Commitments @ \$475.00 each =	\$ 950.00
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A Subsidiary of GZA



July 24, 2020

via email: mjsmoth@transystems.com

Mr. Matthew J. Smith, P.E.
Assistant Vice President
TranSystems Corporation
1475 East Woodfield Road, Suite 600
Schaumburg, IL 60173-5440

**Re: Soil Management Assistance for Butterfield Road Bike Path
Proposal No.: 81.PT00058.21Rev**

Dear Mr. Smith:

Huff & Huff, Inc., a subsidiary of GZA, Inc. (Subconsultant) is pleased to present this proposal to provide clean soils assessment, LPC-663 Form documentation, as well as NPDES Permit assistance for the Butterfield Road Bike Path located in Vernon Hills and Mundelein, IL.

1. PROJECT UNDERSTANDING

We understand the construction work includes installation of approximately 3,100 feet of new bike path along the east side of Butterfield Road. The new bike path is anticipated to be constructed with an eight foot width and connect the existing bike path along the south side of Greggs Parkway southward to the existing bike path located north of the ROW of the CN railroad tracks. Soil disturbance is anticipated to be limited to depths of approximately two feet below ground surface.

2. PROJECT SCOPE

The requested work order will include the following tasks.

Task 1 – Pre-Mobilization Coordination and Due Diligence

Subconsultant will provide CCDD research, documentation, soil sampling, testing, and LPC-663 Form documentation for the requested project areas, including the following:

1) Perform a computer database search of Federal, State, Tribal, and local government agency records to determine if the Project Site or adjacent properties are included within the selected regulatory databases. Based on the results of this query, the Site and its surrounding properties shall be evaluated for recognized environmental conditions (RECs) / potentially impacted properties (PIPs). Queries shall be performed, but not limited to, the following regulatory databases:

- National Priority List (NPL) of Hazardous Waste Sites;
- Hazardous Waste Treatment, Storage, Disposal Facilities (TSDF);
- Underground Storage Tank or Leaking Underground Storage Tank Locations (UST/LUST);
- Sanitary Landfill and Solid Waste Sites (SL/SWS);
- State Hazardous Waste Sites (SHWS);
- Site Remediation Program (SRP),

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION
MANAGEMENT

915 Harger Road
Suite 330
Oak Brook, IL 60523
T: 630.684.9100
F: 630.684.9120
www.huffnhuff.com
www.gza.com



- Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) sites
 - Small and Large Quantity Hazardous Waste Generators (RCRIS-SQG/LQG)
 - Resource Conservation and Recovery Act (RCRA)
- 2) Using information obtained in database searches, identify the final sampling protocol, necessary documentation, and the completed LPC-663 Form packet that will be generated as a deliverable for this project.
- 3) Conduct a site visit of the project location to review and photo-document the conditions, confirm the findings of the database search, and to place stakes/pavement markings of proposed soil boring locations in anticipation of the JULIE utility locate call.

Task 2 – Soil Borings, Sampling and Laboratory Analysis

Soil borings and laboratory analysis as necessary, including coordination and performing soil borings and soil sampling. Preserve samples, and transport to an environmental laboratory for analytical testing. While the due diligence activities have yet to be completed, preliminary review of select information available on the IEPA Document Explorer identified 10 site listings in the vicinity of the project area. Based on the preliminary review a single day of field effort is proposed to conduct up to ten (10) hand auger borings along the east side of Butterfield Road. Traffic control has not been included in this proposal as the grassy area of ROW appears sufficient for personnel to access the area and complete the hand augers. Soil borings are planned for advancement to depths of approximately two (2) feet below ground surface. Based on the preliminary review of nearby sites, it is anticipated that samples will be collected for laboratory analysis of the following parameters:

- Volatile Organic Compounds (VOCs, up to 5 samples);
- Benzene, toluene, ethylbenzene, and xylenes (BTEX, up to 5 samples)
- Polynuclear Aromatic Hydrocarbons (PNAs, up to 10 samples);
- Total analysis method (less chromium) RCRA Metals (up to 10 samples);
- TCLP analysis method chromium and iron (up to 10 samples); and
- Soil pH (up to 10 samples)

Task 3 – LPC-Form Documentation

Subconsultant will complete and provide a signed LPC-663 form document for the project. The LPC document will include a cover letter summary, the LPC-663 Form (signed and stamped by a P.E. or P.G.), a narrative, soil sampling, analytical results, and comparison to the Maximum Allowable Concentration (MAC) values. If sample results do not achieve the MAC values, CCDD exclusion zones shall be identified relative to the affected areas.

Should CCDD eligible material be identified, Subconsultant will provide LPC-663 form document to at least two CCDD facilities. It is anticipated that the facilities selected will be based on the proximity of the CCDD facility to the planned improvements. Subconsultant will request the CCDD facilities provide a prequalification status for materials identified as CCDD eligible.

Task 4 – Biological and Cultural Clearances

Endangered species review is required through the FWS and the IDNR. H&H will initiate IDNR coordination through the submittal of the Ecological Compliance Assessment Tool (EcoCAT), requesting information on project threatened or endangered species. H&H will conduct the FWS Section 7 consultation for federally listed species. The Section 7 consultation procedures are outlined on the FWS website.



This scope does not include specific surveys for threatened or endangered species as these typically require significant efforts in site investigations, such as trapping, overnight observations, stream investigations for fish and mussels, and habitat surveys. If the FWS or IDNR require additional surveys for listed species, a separate cost estimate will be prepared based on the type of species that are being investigated. This proposal assumes that endangered species impacts will be avoided. Permitting for take of endangered species is not included with this scope.

As part of the NPDES permitting process, clearances will be needed from the Illinois Historic Preservation Office under the IDNR. H&H will prepare the initial documentation required for historic properties. Because of the amount of disturbance within the ROW, it is unlikely that there are any historic or cultural resources present. The SHPO may require a Phase 1 archeological survey to determine the potential impact to archeological resources prior to approving the project. A qualified archeological firm will be required to conduct this study if required. This proposal does not include a Phase 1 archeological survey.

Task 5 – QA/QC

Time under this task includes QA/QC time for the PESA report as described above.

Task 6 – Project Management

Time under this task includes project administration and management activities that include cost and schedule tracking, coordination with Client on authorized activities, document production and other in-house management activities.

3. LEVEL OF EFFORT AND SCHEDULE

The fee associated with the proposed scope of services is presented on the attached IDOT cost plus fixed fee (CPFF) spreadsheets. Work will commence within five business days of project approval, with a target completion date of eight weeks from the date of approval.

We understand the improvement project is anticipated to be bid in July 2020 with construction to commence in early to mid-August 2020. Therefore, we propose to commence work within one day of the notice to proceed and will require an estimated three weeks to complete all tasks.



4. TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES

CONDITIONS OF ENGAGEMENT

The conditions of engagement are described in the attached Terms and Conditions for Professional Services. H&H’s report will be prepared on behalf of and for the exclusive use of Client. Client acknowledges and agrees that the report and the findings in the report shall not, in whole or in part, be disseminated or conveyed to any other party, or used or relied upon by any other party, in whole or in part, except for the specific purpose and to the specific parties alluded to above, without the written consent of H&H. H&H would be pleased to discuss the conditions associated with any additional dissemination, use, or reliance by other parties.

ACCEPTANCE

This agreement may be accepted by signing in the appropriate space below and returning one complete copy to H&H. Issuance of a Purchase Order implicitly acknowledges acceptance of this proposal. This proposal is valid for a period of 30 days from the date of issue.

We appreciate the opportunity to submit this proposal. Please feel free to contact the undersigned at (630) 684-9100 with any questions.

Very truly yours,

Huff & Huff, Inc., a subsidiary of GZA

Jim Novak
Associate Principal

Jeremy J. Reynolds
Associate Principal

This Proposal for Services, Schedule of Fees, and the Terms and Conditions in our February 11, 2019 General Agreement are hereby accepted and executed by a duly authorized signatory, who by execution hereof, warrants that he/she has full authority to act for, in the name, and on behalf of _____.

By: _____

Title: _____

Printed/Typed Name: _____

Date: _____

The Proposal for Services, Schedule of Fees and Terms and Conditions for Professional Services may be executed in two or more counterparts, each of which together shall be deemed an original, but all of which together shall constitute one and the same instrument. In the event that any signature is delivered by facsimile transmission or by an e-mail delivery of a document in “.pdf” format, each such signature shall create a valid and binding obligation of the party executing the document, or on whose behalf each document is executed, with the same force and effect as if each such facsimile or “.pdf” signature were an original thereof.



TERMS AND CONDITIONS FOR PROFESSIONAL SERVICES Including Site Investigation, Remediation, Geotechnical, Construction, And Testing

© 2016 by Huff & Huff, Inc., a Subsidiary of GZA GeoEnvironmental, Inc.

These Terms and Conditions, together with Huff & Huff, Inc.'s (H&H's) Proposal, make up the Agreement between H&H and you, Client, named in the attached proposal.

BEFORE SIGNING THE PROPOSAL, BE SURE YOU READ AND UNDERSTAND THE PARAGRAPHS ENTITLED "INDEMNIFICATION" AND "LIMITATION OF REMEDIES" WHICH DEAL WITH THE ALLOCATION OF RISK BETWEEN YOU AND H&H.

1. **Services.** H&H will perform the services set forth in its Proposal and any amendments or change orders authorized by you. Any request or direction from you that would require extra work or additional time for performance or would result in an increase in H&H's costs will be the subject of a negotiated amendment or change order.
2. **Standard of Care; Warranties.**
 - a. H&H will perform the services with the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services at the same time under similar conditions in the same or similar locality.
 - b. H&H warrants that its construction services will be of good quality, free of faults and defects and in conformance with the Proposal.
 - c. **EXCEPT AS SET FORTH IN SUBSECTIONS 2a AND 2b, ABOVE, NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTY OF MARKETABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE OR INTENDED BY H&H'S PROPOSAL OR BY ANY OF H&H'S ORAL OR WRITTEN REPORTS.**
 - d. H&H assigns to you any manufacturers' warranties of equipment or materials purchased from others, to the extent they are assignable, and your sole recourse will be against the manufacturer. Full risk of loss of materials and equipment will pass to you upon delivery to the Site, and you will be responsible for insuring and otherwise protecting them against theft and damage.
3. **Payment.**
 - a. Except as otherwise stated in the Proposal, you will compensate H&H for the services at the rates set forth in the applicable Proposal, amendment or change order; reimburse its expenses, which will include a communication fee calculated as a percentage of labor invoiced; and pay any sales or similar taxes thereon.
 - b. Any retainer specified in H&H's Proposal shall be due prior to the start of services and will be applied to the final invoice for services.
 - c. H&H will submit invoices periodically, and payment will be due within 20 days from invoice date. Overdue payments will bear interest at 1½ percent per month or, if lower, the maximum lawful rate. H&H may terminate its services upon 10 days' written notice anytime your payment is overdue on this or any other project and you will pay for all services through termination, plus termination costs. You will reimburse H&H's costs of collecting overdue invoices, including reasonable attorneys' fees.
4. **Your Responsibilities.**
 - a. Except as otherwise agreed, you will secure the approvals, permits, licenses and consents necessary for performance of the services. If you are the owner or operator of the Site, you will provide H&H with all documents, plans, information concerning underground structures (including but not limited to utilities, conduits, pipes, and tanks), information related to hazardous materials or other environmental or geotechnical conditions at the Site and other information that may be pertinent to the services or, if you are not the owner or operator of the Site, you agree to make reasonable efforts to obtain these same documents and provide them to H&H. Unless otherwise indicated in writing, H&H will be entitled to rely on documents and information you provide.
 - b. If you use the services of a construction manager at the Site, you agree to use best and reasonable efforts to include in your agreement(s) with the construction contractor provisions obligating the latter:
 - (i) to indemnify and hold harmless, to the fullest extent permitted by law, you and H&H, its officers, employees and principals, for or on account of any claims, liabilities, costs and expenses, including attorneys' fees, arising out of or relating to the design or implementation



of construction means, methods, procedures, techniques, and sequences of construction, including safety precautions or programs, of the contractor, or any of its subcontractors or any engineer engaged by it;

- (ii) to name you and H&H as additional insureds under general liability and builder's risk insurance coverages maintained by the contractor, or any of its subcontractors; and
 - (iii) to require that all of its subcontractors agree and be bound to the obligations set forth in (i) and (ii) above.
- c. In the event that you are unable to secure such provisions in the agreement(s) with the construction contractor, you shall promptly notify H&H and H&H shall have the opportunity to negotiate with you reasonable substitute risk allocation and insurance indemnities and protections.
5. **Right of Entry; Site Restoration.** You grant H&H and its subcontractor(s) permission to enter the Site to perform the services. If you do not own the Site, you represent and warrant that the owner has granted permission for H&H to enter the Site and perform the services; you will provide reasonable verification on request; and you will indemnify H&H for any claims by the Site owner related to alleged trespass by H&H or its subcontractors. H&H will exercise reasonable care to limit damage to landscaping, paving, systems and structures at the Site that may occur and you agree to compensate H&H for any restoration it is asked to perform, unless otherwise indicated in the Proposal.
6. **Underground Facilities.** H&H's only responsibility under this Section will be to provide proper notification to the applicable state utility "Call-Before-You-Dig" program. You further agree to assume responsibility for and to defend, indemnify and hold harmless H&H with respect to personal injury and property damages due to H&H's interference with subterranean structures including but not limited to utilities, conduits, pipes, and tanks:
- (i) that are not correctly shown on any plans and information you or governmental authorities provide to H&H; or
 - (ii) that are not correctly marked by the appropriate utility.
7. **Reliance.** The services, information, and other data furnished by you shall be at your expense, and H&H may rely upon all information and data that you furnish, including the accuracy and completeness thereof. You acknowledge that the quality of the services provided by H&H is directly related to the accuracy and completeness of the information and data that you furnish to H&H. **H&H's REPORTS ARE PREPARED FOR AND MADE AVAILABLE FOR YOUR SOLE USE. YOU ACKNOWLEDGE AND AGREE THAT USE OF OR RELIANCE UPON THE REPORT OR THE FINDINGS IN THE REPORT BY ANY OTHER PARTY, OR FOR ANY OTHER PROJECT OR PURPOSE, SHALL BE AT YOUR OR SUCH OTHER PARTY'S SOLE RISK AND WITHOUT ANY LIABILITY TO H&H.**
8. **Lab Tests and Samples.** H&H is entitled to rely on the results of laboratory tests using generally accepted methodologies. H&H may dispose of samples in accordance with applicable laws 30 days after submitting test results to you unless you request in writing for them to be returned to you or to be held longer, in which case you will compensate H&H for storage and/or shipping beyond 30 days.
9. **H&H Professionals.** H&H employees or consultants may act as licensed, certified or registered professionals (including but not limited to Professional Engineers, Licensed Site or Environmental Professionals, or Certified Industrial Hygienists collectively referred to in this section as "H&H Professionals") whose duties may include the rendering of independent professional opinions. You acknowledge that a federal, state or local agency or other third party may audit the services of H&H or other contractor/consultant(s), which audit may require additional services, even though H&H and such H&H Professionals have each performed such services in accordance with the standard of care set forth herein. You agree to compensate H&H for all services performed in response to such an audit, or to meet additional requirements resulting from such an audit, at the rates set forth in the applicable Proposal, amendment or change order.
10. **Hazardous Materials; H&H "Not a Generator".** Before any hazardous or contaminated materials are removed from the Site, you will sign manifests naming you as the generator of the waste (or, if you are not the generator, you will arrange for the generator to sign). You will select the treatment or disposal facility to which any waste is taken. H&H will not be the generator or owner of, nor will it possess, take title to, or assume legal liability for any hazardous or contaminated materials at or removed from the Site. H&H will not have responsibility for or control of the Site or of operations or activities at the Site other than its own. H&H will not undertake, arrange for or control the handling, treatment, storage, removal, shipment, transportation or disposal of any hazardous or contaminated materials at or removed from the Site, other than any laboratory samples it collects or tests. You agree to defend, indemnify and hold H&H harmless for any costs



or liability incurred by H&H in defense of or in payment for any legal actions in which it is alleged that H&H is the owner, generator, treater, storer or disposer of hazardous waste.

- 11. Limits on H&H's Responsibility.** H&H will not be responsible for the acts or omissions of contractors or others at the Site, except for its own subcontractors and employees. H&H will not supervise, direct or assume control over or the authority to stop any contractor's work, nor shall H&H's professional activities nor the presence of H&H or its employees and subcontractors be construed to imply that H&H has authority over or responsibility for the means, methods, techniques, sequences or procedures of construction, for work site health or safety precautions or programs, or for any failure of contractors to comply with contracts, plans, specifications or laws. Any opinions by H&H of probable costs of labor, materials, equipment or services to be furnished by others are strictly estimates and are not a guarantee that actual costs will be consistent with the estimates.
- 12. Changed Conditions.**
 - a. You recognize the uncertainties related to environmental and geotechnical services, which often require a phased or exploratory approach, with the need for additional services becoming apparent during the initial services. You also recognize that actual conditions encountered may vary significantly from those anticipated, that laws and regulations are subject to change, and that the requirements of regulatory authorities are often unpredictable.
 - b. If changed or unanticipated conditions or delays make additional services necessary or result in additional costs or time for performance, H&H will notify you and the parties will negotiate appropriate changes to the scope of services, compensation and schedule.
 - c. If no agreement can be reached, H&H will be entitled to terminate its services and to be equitably compensated for the services already performed. H&H will not be responsible for delays or failures to perform due to weather, labor disputes, intervention by or inability to get approvals from public authorities, acts or omissions on your part, or any other causes beyond H&H's reasonable control, and you will compensate H&H for any resulting increase in its costs.
- 13. Documents and Information.** All documents, data, calculations and work papers prepared or furnished by H&H are instruments of service and will remain H&H's property. Designs, reports, data and other work product delivered to you are for your use only, for the limited purposes disclosed to H&H. Any delayed use, use at another site, use on another project, or use by a third party will be at the user's sole risk, and without any liability to H&H. Any technology, methodology or technical information learned or developed by H&H will remain its property. Provided H&H is not in default under this Agreement, H&H's designs will not be used to complete this project by others, except by written agreement relating to use, liability and compensation.
- 14. Electronic Media.** In accepting and utilizing any drawings, reports and data on any form of electronic media generated by H&H, you covenant and agree that all such electronic files are instruments of service of H&H, who shall be deemed the author and shall retain all common law, statutory law and other rights, including copyrights. In the event of a conflict between the signed documents prepared by H&H and electronic files, the signed documents shall govern. You agree not to reuse these electronic files, in whole or in part, for any purpose or project other than the project that is the subject of this Agreement. Any transfer of these electronic files to others or reuse or modifications to such files by you without the prior written consent of H&H will be at the user's sole risk and without any liability to H&H.
- 15. Confidentiality; Subpoenas.** Information about this Agreement and H&H's services and information you provide to H&H regarding your business and the Site, other than information available to the public and information acquired from third parties, will be maintained in confidence and will not be disclosed to others without your consent, except as H&H reasonably believes is necessary: (a) to perform its services; (b) to comply with professional standards to protect public health, safety and the environment; and (c) to comply with laws and court orders. H&H will make reasonable efforts to give you prior notice of any disclosure under (b) or (c) above. Information available to the public and information acquired from third parties will not be considered confidential. You will reimburse H&H for responding to any subpoena or governmental inquiry or audit related to the services, at the rates set forth in the applicable Proposal, amendment or change order.
- 16. Insurance.** During performance of the services, H&H will maintain workers compensation, commercial general liability, automobile liability, and professional liability/contractor's pollution liability insurance. H&H will furnish you certificates of such insurance on request.



17. Indemnification. You agree to hold harmless, indemnify, and defend H&H and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "H&H") against all claims, suits, fines and penalties, including mandated cleanup costs and attorneys' fees and other costs of settlement and defense, which claims, suits, fines, penalties or costs arise out of or are related to this Agreement or the services, except to the extent they are caused by H&H's negligence or willful misconduct.

18. Limitation of Remedies.

- a. To the fullest extent permitted by law and notwithstanding anything else in this Agreement to the contrary, the aggregate liability of H&H and its affiliates and subcontractors and their employees, officers, directors and agents (collectively referred to in this paragraph as "H&H") for all claims arising out of this Agreement or the services is limited to \$50,000 or, if greater, 10% of the compensation received by H&H under this Agreement.
- b. You may elect to increase the limit of liability by paying an additional fee, such fee to be negotiated prior to the execution of this Agreement.
- c. Any claim will be deemed waived unless received by H&H within one year of substantial completion of the services.
- d. H&H will not be liable for lost profits, loss of use of property, delays, or other special, indirect, incidental, consequential, punitive, exemplary, or multiple damages.
- e. H&H will not be liable to you or the Site owner for injuries or deaths suffered by H&H's or its subcontractors' employees.
- f. You will look solely to H&H for your remedy for any claim arising out of or relating to this Agreement, including any claim arising out of or relating to alleged negligence or errors or omissions of any H&H principal, officer, employee or agent.

19. Disputes.

- a. All disputes between you and H&H shall be subject to non-binding mediation.
- b. Either party may demand mediation by serving a written notice stating the essential nature of the dispute, the amount of time or money claimed, and requiring that the matter be mediated within forty-five (45) days of service of notice.
- c. The mediation shall be administered by the American Arbitration Association in accordance with its most recent Construction Mediation Rules, or by such other person or organization as the parties may agree upon.
- d. No action or suit may be commenced unless mediation has occurred but did not resolve the dispute, or unless a statute of limitation period would expire if suit were not filed prior to such forty-five (45) days after service of notice.

20. Miscellaneous.

- a. Illinois law shall govern this Agreement.
- b. The above terms and conditions regarding Limitation of Remedies and Indemnification shall survive the completion of the services under this Agreement and the termination of the contract for any cause.
- c. Any amendment to these Terms and Conditions must be in writing and signed by both parties.
- d. Having received these Terms and Conditions, your oral authorization to commence services, your actions, or your use of the Report or Work Product constitutes your acceptance of them.
- e. This Agreement supersedes any contract terms, purchase orders or other documents issued by you.
- f. Neither party may assign or transfer this Agreement or any rights or duties hereunder without the written consent of the other party.
- g. Your failure or the failure of your successors or assigns to receive payment or reimbursement from any other party for any reason whatsoever shall not absolve you, your successors or assigns of any obligation to pay any sum to H&H under this agreement.
- h. These Terms and Conditions shall govern over any inconsistent terms in H&H's Proposal.
- i. The provisions of this Agreement are severable; if any provision is unenforceable it shall be appropriately limited and given effect to the extent it is enforceable.
- j. The covenants and agreements contained in this Agreement shall apply to, inure to the benefit of and be binding upon the parties hereto and upon their respective successors and assigns.

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT
Prepared By

Huff & Huff, Inc.
TranSystems Corporation
MTW/SC

DATE 07/24/20
0

PTB-ITEM#

CONTRACT TERM 8 MONTHS
START DATE 7/27/2020
RAISE DATE 3/1/2021

OVERHEAD RATE 182.42%
COMPLEXITY FACTOR 0
% OF RAISE 3%

END DATE 3/26/2021

ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	7/27/2020	3/1/2021	7	87.50%
1	3/2/2021	4/1/2021	1	12.88%

The total escalation = 0.37%

Exhibit A - Preliminary Engineering

Route: Butterfield Road Bike Path
 Local Agency: Lake County
 (Municipality/Township/County)
 Section: _____
 Project: _____
 Job No. _____

*Firm's **approved rates** on file with IDOT'S
 Bureau of Accounting and Auditing:
 Overhead Rate (OH) 182.42 %
 Complexity Factor ® 0.00
 Calendar Days _____

Method of Compensation:

- Cost Plus Fixed Fee 1 14.5%[DL + R(DL) + OH(DL) + IHDC]
- Cost Plus Fixed Fee 2 14.5%[DL + R(DL) + 1.4(DL) + IHDC]
- Cost Plus Fixed Fee 3 14.5%[(2.3 + R)DL + IHDC]
- Specific Rate
- Lump Sum

Cost Estimate of Consultant's Services in Dollars

Element of Work	Employee Classification	Man-Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	In-House direct costs (IHDC)	Profit	Total
Premob & Due Diligence	Varies (Attached)	15.00	\$34.99	\$524.85	\$957.43	\$0.00	\$276.00	\$254.95	\$2,013.23
Soil Sampling	Varies (Attached)	22.00	\$32.97	\$725.34	\$1,323.17	\$0.00	\$4,336.00	\$925.75	\$7,310.26
LPC Form Documents	Varies (Attached)	23.00	\$39.54	\$909.42	\$1,658.96	\$0.00	\$20.00	\$375.32	\$2,963.70
Biological Cultural Clearances	Varies (Attached)	8.00	\$38.05	\$304.40	\$555.29	\$0.00	\$130.00	\$143.51	\$1,133.20
QA/QC	Varies (Attached)	5.00	\$53.45	\$267.25	\$487.52	\$0.00	\$0.00	\$109.44	\$864.21
Project Management	Varies (Attached)	4.00	\$54.98	\$219.92	\$401.18	\$0.00	\$0.00	\$90.06	\$711.16
TOTALS		77.00		\$2,951.18	\$5,383.55	\$0.00	\$4,762.00	\$1,899.03	\$14,995.76

AVERAGE HOURLY PROJECT RATES

FIRM Huff & Huff, Inc.
PTB-ITEM# 0
PRIME/SUPPLEMENT TranSystems

DATE 07/24/20

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Premob and Due Diligenc			Soil Sampling			LPC Form Documents			Biological Cultural Clearanc			QA/QC		
		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	0.0																	
Associate Principal II	70.00	0.0																	
Associate Principal I	62.86	8.0	10.39%	6.53				1	4.55%	2.86	2	8.70%	5.47	1	12.50%	7.86	2	40.00%	25.15
Senior Consultant	69.70	0.0																	
Senior Project Manager III	60.96	0.0																	
Senior Project Manager II	46.81	0.0																	
Senior Project Manager I	45.29	0.0																	
Senior Landscape Architect	52.94	0.0																	
Senior Planning PM	53.65	0.0																	
Senior Geologist PM	47.51	7.0	9.09%	4.32	1	6.67%	3.17				1	4.35%	2.07				3	60.00%	28.50
Senior Technical Specialist	46.31	0.0																	
Senior Scientist PM II	48.76	0.0																	
Senior Technical Scientist	44.41	3.0	3.90%	1.73										3	37.50%	16.65			
Technical Graphics Technician	24.03	6.0	7.79%	1.87	2	13.33%	3.20				4	17.39%	4.18						
Scientist PM II	44.48	0.0																	
Engineer PM I	40.05	24.0	31.17%	12.48	8	53.33%	21.36				16	69.57%	27.86						
Assistant PM Engineer I	36.53	0.0																	
Engineer I	32.31	0.0																	
Assistant PM Scientist	33.14	10.0	12.99%	4.30				10	45.45%	15.06									
Scientist E1	27.26	9.0	11.69%	3.19	4	26.67%	7.27	1	4.55%	1.24				4	50.00%	13.63			
Scientist E2	25.50	0.0																	
Administrative Managers	43.26	0.0																	
Senior Administrative Assistant	30.40	10.0	12.99%	3.95				10	45.45%	13.82									
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		77.0	100%	\$38.37	15.0	100.00%	\$35.00	22.0	100%	\$32.98	23.0	100%	\$39.57	8.0	100%	\$38.14	5.0	100%	\$53.65

HUFF & HUFF, INC.
SUMMARY OF IN-HOUSE DIRECT COSTS

Project: TS Butterfield Bike Path CCDD and Permit Assistance

DIRECT

Task 1: Pre-Mob and Due Diligence

Trips - Company	80 miles	x	1 x	\$ 0.575	=	\$ 46.00
Tolls	ea	x	3 x	\$ 1.50	=	\$ 4.50
database+aerials	1 ea	x	1 x	\$ 175.00	=	\$ 175.00
GPS	1 day	x	1 x	\$ 50.00	=	\$ 50.00
Task Total						\$ 275.50

Task 2: Soil Sampling

Trips - Company	80 miles	x	1 x	\$ 0.575	=	\$ 46.00
Tolls			3 x	\$ 1.50	=	\$ 4.50
PID	1 day	x	1 x	\$ 50.00	=	\$ 50.00
Field Kit	1 day	x	1 x	\$ 30.00	=	\$ 30.00
VOC	1 ea	x	5 x	\$ 126.00	=	\$ 630.00
BTEX	1 ea	x	5 x	\$ 65.00	=	\$ 325.00
PNA	1 ea	x	10 x	\$ 105.00	=	\$ 1,050.00
RCRA total	1 ea	x	10 x	\$ 90.00	=	\$ 900.00
TCLP RCRA+Fe	1 ea	x	10 x	\$ 105.00	=	\$ 1,050.00
pH	1 ea	x	10 x	\$ 13.00	=	\$ 130.00
5035s (voc/btex)	1 ea	x	10 x	\$ 12.00	=	\$ 120.00
Task Total						\$ 4,335.50

Task 3: LPC-Form Documentation

<u>Federal Express</u>			1 x	\$ 20.00	=	\$ 20.00
Task Total						\$ 20.00

Task 4: Biological and Cultural

EcoCAT			1 x	\$ 130.00	=	\$ 130.00
Task Total						\$ 130.00

Task 5: QA/QC

Task Total	\$	-
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Task 6: Project Management

Task Total	\$	-
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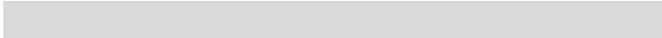
GRAND TOTAL \$ 4,761.00

PAYROLL RATES

FIRM NAME	Huff & Huff, Inc.	DATE	07/24/20
PRIME/SUPPLEMENT	0		
PTB-ITEM #	0		

ESCALATION FACTOR **0.37%**

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$72.80	\$70.00
Associate Principal II	\$75.00	\$70.00
Associate Principal I	\$62.63	\$62.86
Senior Consultant	\$69.44	\$69.70
Senior Project Manager III	\$60.73	\$60.96
Senior Project Manager II	\$46.64	\$46.81
Senior Project Manager I	\$45.12	\$45.29
Senior Landscape Architect	\$52.74	\$52.94
Senior Planning PM	\$53.45	\$53.65
Senior Geologist PM	\$47.33	\$47.51
Senior Technical Specialist	\$46.14	\$46.31
Senior Scientist PM II	\$48.58	\$48.76
Senior Technical Scientist	\$44.24	\$44.41
Technical Graphics Technici	\$24.03	\$24.03
Scientist PM II	\$44.48	\$44.48
Engineer PM I	\$40.05	\$40.05
Assistant PM Engineer I	\$36.53	\$36.53
Engineer I	\$32.31	\$32.31
Assistant PM Scientist	\$33.14	\$33.14
Scientist E1	\$27.26	\$27.26
Scientist E2	\$25.50	\$25.50
Administrative Managers	\$43.26	\$43.26
Senior Administrative Assist	\$30.40	\$30.40



Attachment B



TranSystems

1475 East Woodfield Road
Suite 600
Schaumburg, IL 60173
Tel 847 605 9600
Fax 847 605 9610

www.transystems.com

Butterfield Road Bike Path – Feasibility Study
July 31, 2020

EXHIBIT A - SCOPE OF ENGINEERING SERVICES

This scope of services consists of a feasibility study related to adding a bike path along Butterfield Road from the intersection of Butterfield Road/Allanson Road/Greggs Parkway to near Golf Road, a distance of approximately 1.2 miles.

The scope includes determining the best route to provide a bike path connection from the intersection of Butterfield Road/Allanson Road/Greggs Parkway on the south to the Libertyville Township's Canterbury Park area to the north near the intersection of Butterfield Road and Golf Road. Three alignments will be considered and analyzed to determine the most feasible alignment. The alignments include:

- The east side of Butterfield Road for about 5,650 feet
- The west side of Butterfield Road for about 5,650 feet
- Along Allanson Road for about 1,500 feet and then northward along the existing ComEd right-of-way for about 2,700 feet until it connects to the existing trail at Thomas Boulevard

The following is a summary of the items that are included in the proposed scope of services:
Butterfield Road Bike Path Feasibility Study from Allanson Road/Gregg's Parkway to Canterbury Park

1. Feasibility Study Data Collection

- A. Obtain and review project information from LCDOT and other appropriate agencies: roadway and bikeway plans, GIS data, right-of-way plans, development plans, drainage and flooding information, drainage atlases, FIRM and FIS maps, wetland maps, bus routes, heavy vehicle routes, and emergency response routes, public and private utility atlases.
- B. Conduct one site visit with the project team to document project features and review existing conditions.
- C. Coordinate with JULIE to obtain listing of potential utility facilities within the project limits. Follow up coordination with each utility company to request atlases.

2. Base Maps

- A. Create base maps using aerial imagery for exhibit purposes.

Exhibit A – SCOPE OF ENGINEERING SERVICES

Butterfield Road Bike Path – Feasibility Study

3. Alternative Analysis

- A. Develop concept layout and geometrics for three alternatives
 - 1. The east side of Butterfield Road for about 5,650 feet
 - 2. The west side of Butterfield Road for about 5,650 feet
 - 3. Along Allanson Road for about 1,500 feet and then northward along the existing ComEd right-of-way for about 2,700 feet until it connects to the existing paved trail at Thomas Boulevard. The ComEd right-of-way alternative will require evaluation of requirements for placing the path within a ComEd easement.
- B. Create an evaluation matrix to compare the alternatives and draw comparisons to costs, ROW needs, connectivity to other trails, public support, safety, environmental impacts, utility impacts, drainage concerns and constructability.
- C. Develop a technical memorandum that summarizes the alternatives considered, the results of the analysis and provides a recommendation.

4. Meetings

Virtual meetings assume 2 people attending, 2 hours meeting prep, 1 hour meeting and 1 hour follow up for minutes (8 hours total per meeting).

- A. General Kick-off Meeting (1 anticipated) (assumed virtual meeting)
- B. LCDOT Coordination Meetings (3 anticipated) (assumed virtual meeting)
- C. Vernon Hills/Mundelein/Libertyville Coordination Meetings (2 anticipated) (assumed virtual meeting)

5. Feasibility Project Management and QA/QC

- A. Prepare and submit monthly progress reports.
- B. Project management including contract administration, budget control, and internal project team meetings. Prepare and monitor the project schedule and update the schedule periodically as tasks or project scheduling change, as well as perform scope of work reviews, resource planning, internal team coordination, contract administration, and invoicing.
- C. Establish and adhere to an approved project QA/QC plan.
- D. Provide project QA/QC for all submittals.

Assumptions

No IDOT/FHWA coordination is anticipated and no hours are included in the scope for this.

The following tasks or items were not included in this scope of services.

- A. Intergovernmental Agreements
- B. Preparation of funding applications
- C. Structural and geotechnical studies. If the preliminary studies determine the need for a retaining wall, these will be added as a supplement at that time.

MANHOUR SUMMARY

Butterfield Road Bike Path

Lake County Division of Transportation

Bike Path Feasibility Study (Allanson Road/Gregg's Parkway to Canterbury Park)

7/31/20

<u>Task</u>	<u>Item</u>	<u>Number of Sheets</u>	<u>Manhours Per Sheet</u>	<u>Total Manhours</u>
Task 1	<u>Feasibility Data Collection</u>			
a	Review Record Plan Information			16
b	Field Visit (1 visit * 2 people * 8 hours)			16
c	Utility Coordination			16
	Task 1 Subtotal			48
Task 2	<u>Base Maps</u>			
a	Create base maps			24
	Task 2 Subtotal			24
Task 3	<u>Alternative Analysis</u>			
a	Concept Layout and Geometrics for three alternatives			40
b	Evaluation Matrix			40
c	Technical Memorandum			80
	Task 3 Subtotal			160
Task 4	<u>Meetings</u>	No. Meetings	Hours Per Meeting	
a	General Kick-Off Meeting	1	8	8
b	LCDOT Coordination Meetings	3	8	24
c	Vernon Hills/Mundelein/Libertyville Coordination Meetings	2	8	16
	Task 4 Subtotal			48
Task 5	<u>Project Management and QA/QC</u>	Months	Hours per Month	
a	Prepare and submit monthly progress reports	12	2	24
b	Project Management			12
c	Establish and adhere to an approved QA/QC Plan			8
d	QA/QC for submittals			16
	Task 5 Subtotal			60
OVERALL TOTAL				340

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME TranSystems Corporation
 PRIME/SUPPLEMENT _____
 Prepared By Jennifer Golemba

DATE 7/30/2020
 PTB-ITEM# 0

CONTRACT TERM 12 MONTHS
 START DATE 9/1/2020
 RAISE DATE 1/1/2021
 END DATE 8/31/2021

OVERHEAD RATE 151.94%
 COMPLEXITY FACTOR 0
 % OF RAISE 3%

ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	9/1/2020	1/1/2021	4	33.33%
1	1/2/2021	9/1/2021	8	68.67%

The total escalation = 2.00%

PAYROLL RATES

FIRM NAME TranSystems Corporatio DATE 7/30/2020
 PRIME/SUPPLEMENT 0
 PTB-ITEM # 0

ESCALATION FACTOR 2.00%

Note: Rates should be capped on the AVG 1 tab as necessary

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer 5 (E5)	\$70.00	\$71.40
Engineer 4 (E4)	\$70.00	\$71.40
Engineer 3 (E3)	\$58.55	\$59.72
Engineer 2 (E2)	\$45.68	\$46.59
Engineer 1 (E1)	\$34.92	\$35.62
Planner 5 (P5)	\$60.00	\$61.20
Planner 4 (P4)	\$60.00	\$61.20
Planner 3 (P3)	\$44.39	\$45.28
Architect 5 (AR5)	\$60.00	\$61.20
Architect 4 (AR4)	\$60.00	\$61.20
Architect 3 (AR3)	\$57.63	\$58.78
Architect 2 (AR2)	\$40.16	\$40.96
Architect 1 (AR1)	\$34.62	\$35.31
Environmental Scientist 4 (E)	\$60.00	\$61.20
Industry Specialist 3 (IS3)	\$53.18	\$54.24
Industry Specialist 2 (IS2)	\$39.14	\$39.92
Construction Services 4 (CS)	\$51.53	\$52.56
Construction Services 3 (CS)	\$40.50	\$41.31
Technician 5 (T5)	\$60.00	\$61.20
Technician 3 (T3)	\$36.00	\$36.72
Technician 1 (T1)	\$20.34	\$20.75
Administrative 3 (A3)	\$49.96	\$50.96
Administrative 2 (A2)	\$37.53	\$38.28
Administrative 1 (A1)	\$24.70	\$25.19

AVERAGE HOURLY PROJECT RATES

FIRM TranSystems Corporation
 PTB-ITEM# 0
 PRIME/SUPPLEMENT 0

DATE #####

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1 Feas Data Collection			2 Base Maps			3 Alternative Analysis			4 Meetings			5 PM and QA/QC		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer 5 (E5)	70.00	20.0	5.88%	4.12							4	2.50%	1.75	4	8.33%	5.83	12	20.00%	14.00
Engineer 4 (E4)	70.00	38.0	11.18%	7.82	6	12.50%	8.75	4	16.67%	11.67	8	5.00%	3.50	8	16.67%	11.67	12	20.00%	14.00
Engineer 3 (E3)	59.72	74.0	21.76%	13.00	12	25.00%	14.93	4	16.67%	9.95	44	27.50%	16.42	14	29.17%	17.42			
Engineer 2 (E2)	46.59	82.0	24.12%	11.24	12	25.00%	11.65				44	27.50%	12.81	14	29.17%	13.59	12	20.00%	9.32
Engineer 1 (E1)	35.62	74.0	21.76%	7.75	12	25.00%	8.90	10	41.67%	14.84	44	27.50%	9.80	8	16.67%	5.94			
Planner 5 (P5)	60.00	0.0																	
Planner 4 (P4)	60.00	0.0																	
Planner 3 (P3)	45.28	0.0																	
Architect 5 (AR5)	60.00	0.0																	
Architect 4 (AR4)	60.00	0.0																	
Architect 3 (AR3)	58.78	0.0																	
Architect 2 (AR2)	40.96	0.0																	
Architect 1 (AR1)	35.31	0.0																	
Environmental Scientist 4 (S)	60.00	0.0																	
Industry Specialist 3 (IS3)	54.24	0.0																	
Industry Specialist 2 (IS2)	39.92	0.0																	
Construction Services 4 (CS)	52.56	0.0																	
Construction Services 3 (CS)	41.31	0.0																	
Technician 5 (T5)	60.00	0.0																	
Technician 3 (T3)	36.72	28.0	8.24%	3.02	6	12.50%	4.59	6	25.00%	9.18	16	10.00%	3.67						
Technician 1 (T1)	20.75	0.0																	
Administrative 3 (A3)	50.96	0.0																	
Administrative 2 (A2)	38.28	24.0	7.06%	2.70													24	40.00%	15.31
Administrative 1 (A1)	25.19	0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		340.0	100%	\$49.65	48.0	100.00%	\$48.82	24.0	100%	\$45.64	160.0	100%	\$47.95	48.0	100%	\$54.44	60.0	100%	\$52.63

Route: Butterfield Road Bike Path Feasibility Study
 Lake County Division of Transportation

Direct Cost Summary

Feasibility Study Direct Costs

1. Data Collection

Mileage

2 trips @	50 miles/trip	\$ 0.575 /mile	\$ 58
		Subtotal	\$ 58

3. Alternative Analysis

Printing

30 sheets @	No. Copies 10	\$0.50 /sheet	\$ 150
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FedEx/Messenger Service

2 deliveries @		\$ 25.00 /delivery	\$ 50
		Subtotal	\$ 200

Task 2 Total \$ 258

TOTAL DIRECT COSTS \$ 258