


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
Township				Benesch
County				Address
Lake County Div. of Transportation				205 N. Michigan Ave., Suite 2400
Section				City
08-00113-16-BR				Chicago
				State
				Illinois

THIS AGREEMENT is made and entered into this 3rd day of February, 2012 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 IL176 trail underpasses Route _____ Length _____ KM(1.373 Miles)(Structure No. _____)

Termini Realignment of Millennium Trail (1700' west of Fairfield Rd) & Fort Hill Trail (1175' east of Fairfield Rd.)

Description

Construction of HMA trails, two cast-in-place concrete underpasses, construction of a new HMA entrance to the Forest Preserve and lighting.

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 improvement 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, Division 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.

DRAFT

- g. Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LA with five (5) copies of the plans, special provisions, proposals and estimates. Additional copies of any or all documents, if required shall be furnished to the LA by the ENGINEER at his actual cost for reproduction.
- h. Furnish the LA with survey and drafts in quadruplicate of all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
- i. Assist the LA in the receipt and evaluation of proposals and the awarding of the construction contract.
- j. Furnish or cause to be furnished:
- (1) Proportioning and testing of concrete mixtures in accordance with the "Manual of Instructions for Concrete Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT and promptly submit reports on forms prepared by said Bureau.
 - (2) Proportioning and testing of bituminous mixtures (including extracting test) in accordance with the "Manual of Instructions for Bituminous Proportioning and Testing" issued by the Bureau of Materials and Physical Research, of the DEPARTMENT, and promptly submit reports on forms prepared by said Bureau.
 - (3) All compaction tests as required by the specifications and report promptly the same on forms prepared by the Bureau of Materials and Physical Research.
 - (4) Quality and sieve analyses on local aggregates to see that they comply with the specifications contained in the contract.
 - (5) Inspection of all materials when inspection is not provided at the sources by the Bureau of Materials and Physical Research, of the DEPARTMENT and submit inspection reports to the LA and the DEPARTMENT in accordance with the policies of the said DEPARTMENT.
- k. Furnish or cause to be furnished
- (1) A resident engineer, inspectors and other technical personnel to perform the following work: (The number of such inspectors and other technical personnel required shall be subject to the approval of the LA.)
 - a. Continuous observation of the work and the contractor's operations for compliance with the plans and specifications as construction proceeds, but the ENGINEER does not guarantee the performance of the contract by the contractor.
 - b. Establishment and setting of lines and grades.
 - c. Maintain a daily record of the contractor's activities throughout construction including sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work.
 - d. Supervision of inspectors, proportioning engineers and other technical personnel and the taking and submitting of material samples.
 - e. Revision of contract drawings to reflect as built conditions.
 - f. Preparation and submission to the LA in the required form and number of copies, all partial and final payment estimates, change orders, records and reports required by the LA and the DEPARTMENT.
 - (2) **At least one DECI-certified employee available for erosion control inspection duties.**
2. That all **construction documentation** to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT & the LA, it being understood that all such reports, plats, plans and drafts shall before being finally accepted, be subject to approval by the LA and the said DEPARTMENT.
 3. To attend conferences at any reasonable time when requested to do so by the LA or representatives of the DEPARTMENT.
 4. ~~In the event plans, surveys or construction staking are found to be in error during the construction of the SECTION and revisions of the plans or survey or construction staking corrections are necessary, the ENGINEER agrees that he will perform such work without expense to the LA, even though final payment has been received by him. He shall give immediate attention to these changes so there will be a minimum delay to the contractor.~~
 5. The 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. ~~To make such changes in working plans, including all necessary preliminary surveys and investigations, as may be required after the award of the construction contract and during the construction of the improvement.~~

7. That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by him and will show his professional seal where such is required by law.
8. To submit, upon request by the LA or the DEPARTMENT a list of the personnel and the equipment he/she proposes to use in fulfilling the requirements of this AGREEMENT.

The LA Agrees,

1. To pay the Engineer as compensation for all services performed as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 in accordance with one of the following methods indicated by a check mark:

- a. A sum of money equal _____ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
- b. A sum of money equal to the percentage 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 services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1h, 1j and 1k of THE ENGINEER AGREES at the hourly rates stipulated below for personnel assigned to this SECTION as payment in full to the ENGINEER for the actual time spent in providing these services the hourly rates to include profit, overhead, readiness to serve, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under paragraphs 1b, 1c, 1d, 1e, 1f, 1j and 1k of THE ENGINEER AGREES. If the ENGINEER sublets all or a part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. "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.

Grade Classification of Employee	Hourly Rate*
<u>Principal Engineer</u>	\$205.00
<u>Resident Engineer</u>	\$125.00
<u>Sr. Surveyor</u>	\$150.00
<u>Sr. Party Chief</u>	\$100.00
<u>Survey Assistant</u>	\$60.00
<u>Sr. Construction Rep.</u>	\$122.00
<u>Construction Rep. III</u>	\$110.00
<u>Construction Rep. I</u>	\$85.00
<u>Resident Project Assistant</u>	\$70.00

The hourly rates itemized above shall be effective the date the parties, hereunto entering this AGREEMENT, have affixed their hands and seals and shall remain in effect until January 1, 2013. In event the services of the ENGINEER extend beyond January 31, 2013, the hourly rates will be adjusted yearly by addendum to this AGREEMENT to compensate for increases or decreases in the salary structure of the ENGINEER that are in effect at that time.

The Total Not-to-Exceed Contract Amount shall be \$684,650.00 as shown on the attached Exhibit A – Construction Engineering (Cost Estimate of Consultant Services).

3. That payments due the ENGINEER for services rendered pursuant to 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 paragraphs 1a through 1g under THE ENGINEER AGREES – to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee based on the above fee schedule and 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 (excluding any fees paragraphs 1j and 1k of the ENGINEER AGREES), based on the above fee schedule and the awarded contract cost, less any previous payment.
 - c. Upon completion of the construction of the improvement, 90 percent of the fee due for services stipulated in paragraphs 1j and 1k.
 - d. Upon completion of all final reports required by the LA and the DEPARTMENT and acceptance of the improvement by the DEPARTMENT, 100 percent of the total fees due under this AGREEMENT, less any amounts previously paid.

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 improvements be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraph 1k, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 165 percent incurred up to the time he is notified in writing of such abandonment "actual cost" being defined as material costs plus actual payrolls, insurance, social security, and retirement deductions and profit. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost.
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 165 percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 4 above. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans.
6. That should the LA extend completion of the improvement beyond the time limit given in the contract, the LA will pay the ENGINEER, in addition to the fees provided herein, his actual cost incurred beyond such time limit - "actual cost" being defined as in paragraph 4 above.

It is Mutually Agreed,

1. That any difference between the ENGINEER and the LA concerning the 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 his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all drawings, specifications, partial and completed estimates and data if any from traffic studies and soil survey and subsurface investigations with construction documentation 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 the 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 he/she 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 he/she 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 this AGREEMENT to be executed in quadruplicate counterparts, each of which shall be considered as an original by their duly authorized offices.

Executed by the LA:

County of Lake _____ of the
(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By _____

County Board

Lake County Clerk

By _____

(Seal)

Title: Chairman of the County Board

RECOMMENDED FOR EXECUTION

Martin G. Buehler, P.E.
Director of Transportation/ County Engineer
Lake County

Executed by the ENGINEER:

ATTEST:

By Deil J. Merrill

[Signature]

Title: Vice President

Title: Executive Vice President

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

EXHIBIT B - Estimate of Costs (Assuming a May 14, 2012 Construction Start and a December 30, 2012 Construction Completion Date)

**CONSTRUCTION ENGINEERING SERVICES
Lake County - IL Route 176/Fairfield Road - Advance Work**

Alfred Benesch & Co.

Position	Classification	Hourly Rate	04/15/12	05/13/12	06/10/12	07/08/12	08/05/12	09/02/12	09/30/12	10/28/12	11/25/12	12/23/12	01/20/13	02/17/13	03/17/13	04/14/13	05/12/13	TOTAL Manhours	Total Labor Cost
Principal Engineer	Principal Engineer	\$205.00	0	2	2	2	2	2	2	2	2	0	0	0	0	0	0	16	3,280.00
Resident Engineer	Resident Project Manager I	\$125.00	40	180	200	200	200	200	200	180	160	160	160	160	160	160	80	2,440	305,000.00
Sr. Surveyor	Sr. Surveyor	\$150.00	0	4	0	4	0	4	0	4	0	0	0	0	0	0	0	16	2,400.00
Party Chief	Sr. Party Chief	\$100.00	0	32	32	0	0	0	32	0	32	0	0	0	0	0	0	160	16,000.00
Rodmen	Survey Assistant	\$60.00	0	32	32	0	0	0	32	0	32	0	0	0	0	0	0	160	9,600.00
Field Engineer	Sr. Const. Representative	\$172.00	0	80	160	180	180	180	180	180	160	160	160	0	0	0	0	1,620	197,640.00
Field Engineer	Const. Representative III	\$110.00	0	0	80	80	80	80	80	80	80	0	0	0	0	0	0	480	52,800.00
Field Engineer	Const. Representative I	\$85.00	0	0	80	80	80	80	80	80	0	0	0	0	0	0	0	480	40,800.00
Project Assistant	Res Project Assistant	\$70.00	0	10	20	20	20	20	20	20	20	10	0	0	0	0	0	160	11,200.00
Totals			40	340	606	566	562	566	626	546	406	330	384	160	160	160	80	5,532	\$638,720.00
Cumulative Totals			40	380	986	1,552	2,114	2,680	3,306	3,852	4,258	4,588	4,972	5,132	5,292	5,452	5,532		
Vehicle Days			5	40	60	60	60	60	70	60	60	40	40	20	20	20	10	625	

Labor, OH and Profit \$638,720.00
 Direct Costs \$31,025.00
 STATE Testing \$14,905.00
 Contract Total = \$684,650.00

EXHIBIT C - ESTIMATE OF DIRECT COSTS

CONSTRUCTION ENGINEERING SERVICES
LAKE COUNTY - IL Route 176 @ Fairfield Road

ALFRED BENESCH & COMPANY

ITEM	UNIT	UNIT COST	QUANTITY	COST
VEHICLES:	DAY	\$45.00	625	\$28,125.00 *
RADIOS / MOBILE PHONES	MONTH	\$70.00	26	\$1,820.00
JOB PHOTOGRAPHS/VIDEOTAPING	MONTH	\$20.00	12	\$240.00
MAILINGS	MONTH	\$20.00	12	\$240.00
MISCELLANEOUS FIELD EXPENSES	MONTH	\$50.00	12	\$600.00
TOTAL				\$31,025.00

* Vehicle rate shown above is for company-owned vehicles only.
Personal vehicles used on the jobsite will be charged at a rate of \$0.55 / mile.



S.T.A.T.E. TESTING, L.L.C.

570 Rock Road, Unit K
East Dundee, IL 60118

Tele: 847-836-6002
Fax: 847-836-6342

January 31, 2012

Dan Gross
Project Manager
Alfred Benesch

Dear Mr. Gross,

I am writing to you regarding your request for materials testing for the IL176 Trail Underpass in Lake County. This quote is based on an estimate potential undercuts.

	Soils Testing	
Material Tester 2 (Soils Field Inspection)	9 days @ 8 hrs./day (\$125.00/hr.)	\$ 13,500
Proctor Test	4 per test @ \$250 each	\$ 1,000
Vehicle charge	9 days total @ \$45 per day	\$ 405
	Total cost for Concrete Testing:	\$ 14,905

***All rates reflect closed-shop/prevaling wage labor. All OT billed at 1.5 times rate.**

Total cost for job: \$14,905

If you have any questions regarding this estimate, please call. Thank you.

Sincerely,

Derek White

Vice President
S.T.A.T.E. Testing, LLC