

RESOLUTION R-53-09

**A RESOLUTION AUTHORIZING THE EXECUTION OF AN
LOCAL AGENCY/CONSULTANT
CONSTRUCTION ENGINEERING SERVICES AGREEMENT
FOR THE USE OF STATE MOTOR FUEL TAX FUNDS
BETWEEN THE CITY OF WHEATON AND HDR ENGINEERING, INC.
(Wesley Street/Manchester Road Bridge Replacement Project)**

WHEREAS, the City of Wheaton, DuPage County, Illinois, ("City") is desirous of replacing the Wesley Street/Manchester Road Bridge over the Union Pacific railroad tracks ("Project"); and

WHEREAS, the City has received an engineering services proposal from HDR Engineering, Inc. of Chicago, Illinois ("Consultant") for Construction Engineering Services for the Project; and

WHEREAS, the City has secured State motor fuel tax funds for construction and construction engineering services for the Project through the Illinois Commerce Commission Grade Crossing Protection program; and

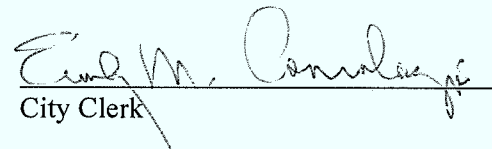
WHEREAS, it is necessary for the City and Consultant to enter into an agreement for the use of State motor fuel tax funds for construction engineering services for the Project.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and City Council of the City of Wheaton, Illinois, that the Mayor is authorized to execute a Consultant Construction Engineering Services Agreement for Motor Fuel Tax Funds with HDR Engineering, Inc. of Chicago, Illinois for the Wesley Street/Manchester Road Bridge Replacement Project (Section 97-00084-00-BR).

ADOPTED this 17th day of August, 2009.


MAYOR

ATTEST:


City Clerk

ROLL CALL VOTE

Ayes:	Councilman Levine Councilman Mouhelis Mayor Gresk Councilman Prendiville Councilman Scalzo Councilman Suess Councilwoman Corry
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Nays:	None
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Absent:	None
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Motion Carried Unanimously

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Municipality City of Wheaton	LOCAL AGENCY	 Illinois Department of Transportation Preliminary/Construction Engineering Services Agreement For Motor Fuel Tax Funds	CONSULTANT	Name HDR Engineering, Inc.
Township Wheaton				Address 8550 W. Bryn Mawr Avenue, Suite 900
County DuPage				City Chicago
Section 97-00084-00-BR				State Illinois

THIS AGREEMENT is made and entered into this 18th day of August, 2009 between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. 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 Manchester Route 3549 Length KM(.26 Miles)(Structure No. 22-7203)

Termini Wesley Street and Manchester Road

Description

Project consists of the removal of several structures, including retaining wall and the construction of a single-span structure with reinforced concrete deck and composite steel girders on integral abutments, the reconstruction of roadway pavement with the addition of a new traffic signal and the rehabilitation of the Illinois Prairie Path Bridge, all located in the city of Wheaton.

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.

Note Four copies to be submitted to the Regional Engineer

- 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. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to this agreement will be in accordance with the current standard specifications and policies of the DEPARTMENT, 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 to _____ 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	(see note)
Under \$50,000	_____	%
	_____	%
	_____	%
	_____	%
	_____	%

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

Principal Engineer	179.55
Resident Engineer	109.21
Chief of Party	_____
Instrument Man	_____
Rodmen	_____
Inspectors	_____
Project Manager IV	172.15
Sr. Civil II/Asst. Res Eng	110.54
Sr Const Obsvr - QA/QC	125.58
Construction Observer	79.27
Structural Engineer IV	126.29
Structural Engineer I	69.99
Clerical IV	83.17

The hourly rates itemized above shall be effective the date the parties, hereunto entering this AGREEMENT, have affixed their

_____s and seals and shall remain in effect until 12/31/2010. In event the services of the ENGINEER extend beyond 12/31/2010, 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.

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 paragraphs 1a and 1g, and prior to the completion of such services the LA shall reimburse the ENGINEER for his actual costs plus 142 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. 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 192 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 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:

City of Wheaton

of the

(Municipality/Township/County)

ATTEST:

State of Illinois, acting by and through its

By

Donald Rose

DEPUTY

CITY

Clerk

(Seal)

By

MICHAEL J. GRESK

Title:

MAYOR

Executed by the ENGINEER:

HDR Engineering, Inc.

ATTEST:

By

[Signature]

Title: Vice President

Martin J. Joyce

Title: Sr. Vice President

Approved

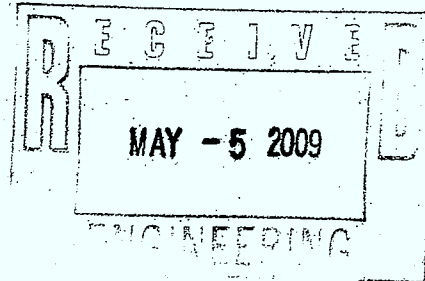
Date

Department of Transportation

Regional Engineer

Friday, May 01, 2009

Mr. Paul G. Redman, P.E.
Director of Engineering
City of Wheaton
303 West Wesley Street,
P.O. Box 727
Wheaton, IL 60189-0727



Phase III Scope and Budget
City of Wheaton
Wesley Street/Manchester Road Bridge over UPRR
Section 97-00084-00-BR
DuPage County

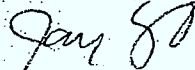
Dear Mr. Redman:

Enclosed you will find 2 copies of our scope and budget for Phase III services for the construction of the Manchester Road/Wesley Street Bridge. Also included, are scopes and budgets for our two subconsultant's Testing Services Corporation (TSC), and Chastain and Associates, LLC.

Should you have any questions, please feel free to contact Jay Chiglo at (773) 380-7986 at HDR Engineering, Inc.

Sincerely,

HDR ENGINEERING, INC.


Jay Chiglo, P.E.
Project Manager

cc:

Phase III Construction Inspection Scope of Work – MANCHESTER RD/WESLEY ST

This is a scope of work for Construction Services to be provided by HDR to the City of Wheaton/IDOT Bureau of Local Roads for the construction of the Manchester Road/Wesley Street Bridge over the UP Railroad. At this time the Letting for this project is scheduled for June, 2009 with an approximate start date of mid August 2009 and a Completion date of October 2010 for the contractor.

The following Services are based on:

- The attached Org Chart
- The attached Estimated Hours
- The attached CECS forms, and
- The attached scope of work and CECS forms from Testing Service Corporation (TSC) and Chastain & Associates, LLP.

Assumptions used to develop this scope include:

- It is assumed the Resident Engineer will be required full time during from August 2009 to December 2010. The time before August 2009 and after October 2010 will be used to finalize quantities, paperwork and the as-builts.
- 200 hours have been included under the Assistant RE role for the purposes of developing as-builts for the City of Wheaton. 2 - 11X17 set of as-built plans will be delivered to the City of Wheaton.
- 152 hours have been included in this scope for addressing RFI's.
- It is assumed the Assistant RE and the Inspector will be full time from August 2009 through November 2009 and then again from March 2010 through October 2010. Part time status is assumed from December 2009 to February 2010 and then again from November 2010 through December 2010.

HDR or its sub-consultants will perform or be responsible for the performance of the services outlined below. The final construction documentation will be submitted to the City of Wheaton.

Pre Construction Phase

- Review Project Specific Plans and Specifications
- Develop Submittal Register
- Incorporate Addendum Information Plans/Specifications
- Set up IDOT Filing System
- Review Site Conditions
- Set up various Computer Logs
- Attend various Meetings and Prepare Minutes

- Develop General Safety Review Plan
- Develop Material Testing Guidelines
- Review IDOT Construction Check Lists
- Review IDOT Construction Manuals
- Document Existing Conditions

Construction Phase

- a) Coordination and Meetings - In addition to regular coordination meetings with the contractor, HDR will hold regular coordination meetings with the City of Wheaton in order to keep the City apprised of the current schedule and issues.
- b) Submittals/Catalog Cuts – HDR will review all construction documentation for the proposed Manchester Road and IPP Bridge, MSE Retaining wall and lighting equipment for compliance with the Contract Documents. HDR's work will also include review of other product submittals required by the Construction Special Provisions.
- c) Construction Inspection - This work consists of the day to day on-site construction observation and documentation of the contractor's work to verify that the construction is accomplished in accordance with the plans and specifications. This work also includes:
 - i) Maintaining a daily record (diary) of the Contractor's activities throughout construction, including documenting sufficient information to permit verification of the nature and cost of changes in plans and authorized extra work; ii) Preparing and submitting to the City of Wheaton weekly reports on the Contractor's progress; iii) Conducting weekly meetings with the Contractor and all interested parties to discuss progress of the project and other matters requiring disposition; iv) reviewing contractor pay estimate requests, and; v) Identifying, anticipating and determining the ramifications of any unforeseen conditions or situations that may arise on the project and making detailed recommendations for field changes.
- d) Material Testing/Mix Designs – This work shall be performed by HDR's sub-consultant – Testing Service Corporation (TSC). See attachment for their specific scope.
- e) Survey Checking & Alignment Controls – This work will be performed by HDR's sub-consultant – Chastain & Associates, LLP. See attachment for their specific scope.
- f) Punchlist & As-Built Plan - HDR will coordinate and schedule a final walk-thru with all parties involved in the construction to develop and issue a final list of work items requiring corrective action and/or additional work. HDR will be required to revise the plan drawings to reflect final as-built conditions. HDR will furnish one copy of said drawings to the City of Wheaton.
- g) Quantities & Pay Estimates - HDR will document quantities relating to work along the Manchester Road/Wesley Street Corridor in the project quantity book. Pay items which lack proof of material inspection, shall not be included in a pay estimate. HDR

will prepare and submit to the City of Wheaton all required partial and final pay estimates, change orders, records and reports.

- h) Project Management & Administration – HDR will perform internal project administration activities, including daily scheduling of HDR field staff activities, monitoring of the construction engineering budget, HDR manpower planning, client correspondence and coordination.
- i) Electrical Services, Permits and Utility Agreements The City of Wheaton will prepare all necessary utility service agreements and approve permits required for the PROJECT.
- j) Monitor Traffic Control - HDR will monitor Traffic Control Signs on a daily basis.

Route	Cost Estimate of Consultant Services									
Project	Consultant: HDR Engineering, Inc.									
Section	COMPLEXITY FACTOR: 0.0									
County	Payroll Burden Fringe Rate:									
IDOT Job No.	Overhead and Expense Rate:									
	TOTAL									
	124.02%									
	Date: 5/1/2009									
	Estimated Cost in Dollars									
	Number of Man Hours (A)	Payroll (B)	Overhead & Fringe Benefits (C)	In-House Direct Costs (D)	Subtotal (E)	Profit (F)	Services By Others (G)	Total (H)	% of Grand Total (I)	
PHASE III										
Project Management	1,009	\$55,069	\$68,296	\$0	\$123,365	\$17,888	\$0	\$141,253	10.46%	
Construction Observation	10,035	\$394,944	\$489,810	\$71,730	\$956,484	\$138,690	\$98,318	\$1,193,492	88.41%	
RFI / Shop Drawing Review	152	\$5,903	\$7,321	\$0	\$13,225	\$1,918	\$0	\$15,142	1.12%	
TOTALS	11,196	\$455,917	\$565,428	\$71,730	\$1,093,074	\$158,496	\$98,318	\$1,349,888.03	100.00%	

Services By Others:

TSC - Geotechnical, material Testing \$ 90,008.00

Chastain - Survey \$ 8,310.00

Total \$ 98,318.00

ESTIMATE OF DIRECT COSTS

Manchester Road

A. DRAWINGS, PRINTING AND REPRODUCTION COSTS

Full-size (24" x 36") Reproduction	1000 shts	X	\$2.70	=	\$2,700.00
Office Reproduction 8 1/2 x 11	10000 shts	X	\$0.06	=	\$600.00

B. TELEPHONE/TELEGRAPH AND SHIPPING COSTS

Nextel Phones	3 phones	X	18 months	X	\$70.00	=	\$3,780.00
GPS Tracking	3 phones	X	18 months	X	\$40.00	=	\$2,160.00
Shipping	18 ea	X			\$20.00	=	\$360.00

C. TRAVEL AND RELATED EXPENSES

Travel	60 days	X	40 miles	X	\$0.55	=	\$1,320.00
Cars	3 cars	X	426 days	X	\$45.00	=	\$57,510.00

D. EQUIPMENT, TOOLS AND VEHICLES

Field Equipment	1 ea	X	\$2,300.00	=	\$ 2,300.00
(See attached list for breakdown)					

E. PERMITS AND FEES

None	=	\$0.00
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F. PREMIUM ON OVERTIME

None	=	\$0.00
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G. MISCELLANEOUS

Other (If needed, max amount allowed w/o prior approval)	=	\$1,000.00
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Subtotal

\$71,730.00

TOTAL DIRECT COSTS

\$71,730.00

CE&I EQUIPMENT CHECKLIST
HDR Construction Control Corporation – Chicago (240)

Project		Manchester Road		Date			
Audit Date:				Provided/			
Auditor:				Purchased	Units	Cost/Unit	Total Cost
REQUIRED PPE PROVIDED BY HDR - ALL SITES							
1	# Hardhat - to be replaced every 5 yrs min.				4	\$ 15.24	\$ 60.96
2	a Safety Glasses - Tinted				4	\$ 8.40	\$ 33.60
	b Safety Glasses - Clear				4	\$ 9.30	\$ 37.20
3	# Safety Vest, Class 2, to be replaced every 2 yrs Size: _____				4	\$ 22.48	\$ 89.92
4	a Hearing Protection - Ear Plugs (Foam)				1	\$ 21.51	\$ 21.51
	b # Hearing Protection - Muffs				0	\$ 13.90	\$ -
5	Gloves				0	\$ 1.50	\$ -
6	Rain Gear - to be replaced every 2 yrs, Size: _____				3	\$ 25.20	\$ 75.60
7	HDR Manuals						
	a Health & Safety Bridge Inspection Safety Manual, No.						\$ -
	b H & S Field Guide for Construction, No.						\$ -
	c H & S Railroad Safety Program Roadway Worker Training, No.						\$ -
	d Const. Contract Admin. & Observation Ref. Manual, No.						\$ -
	e Pocket Digest of OSHA Construction Standards, No.				3	\$ 5.95	\$ 17.85
PPE TO BE PROVIDED BY THE EMPLOYEE - ALL SITES							
8	Safety Boots - Ankle High - \$100.00 max reimbursement every 2 yrs.				N/A	\$ 100.00	\$ -
9	Prescription Safety Glasses - \$170.00 max reimbursement every 2 yrs.				N/A	\$ 170.00	\$ -
OTHER PPE PROVIDED BY HDR - PROJECT SPECIFIC							
10	# Fall Arrest Equipment				N/A		\$ -
11	# Respiratory Protection				N/A		\$ -
12	# Face Shield				N/A		\$ -
CE&I EQUIPMENT - PROJECT SPECIFIC							
13	Field Book				10	\$ 5.49	\$ 54.90
14	# Measuring Wheel - 3ft w/ stand				3	\$ 87.79	\$ 263.37
15	# Measuring/Marking Wheel - 3ft				2	\$ 114.00	\$ 228.00
16	Spray Paint - Color: White				12	\$ 3.10	\$ 37.20
17	# 25' Measuring Tape - 10th in./100th ft. scale				2	\$ 12.70	\$ 25.40
18	# 100' Measuring Tape (Steel) - 10th in./100th ft. scale				1	\$ 48.99	\$ 48.99
19	# 4' Level - I-beam				1	\$ 22.73	\$ 22.73
20	# SmartTool - Module w/ 24" level and case				1	\$ 109.99	\$ 109.99
21	a # String Line w/ Chalk				1	\$ 6.29	\$ 6.29
	b # String Line Chalk				1	\$ 1.27	\$ 1.27
	c # String Line Levels				1	\$ 2.22	\$ 2.22
22	# 6' Folding Ruler - Engineers - 10th in./100th ft. scale				4	\$ 14.16	\$ 56.64
23	# 6'.5 Mini Folding Rod - Surveyors				1	\$ 55.35	\$ 55.35
24	# Infrared Thermometer				1	\$ 74.30	\$ 74.30
25	# Probe Thermometer - 50/550F				1	\$ 7.60	\$ 7.60
26	# Combination Square - 12"				1	\$ 8.57	\$ 8.57
27	Manhole Cover Pick				1	\$ 13.94	\$ 13.94
28	a # Digital Camera - Model: D-535 Zoom, Serial # _____, w/ carrying case				2	\$ 200.00	\$ 400.00
	b # 8 AA Rechargeable Batteries				2	\$ 17.13	\$ 34.26
	c # Rechargeable Batteries Charger				1	\$ 19.27	\$ 19.27
29	# Job Site Box -Steel				1	\$ 400.00	\$ 400.00
OTHER EQUIPMENT - PROJECT SPECIFIC							
#							\$ 2,206.93
SAY =						\$ 2,300.00	

AVERAGE HOURLY PROJECT RATES

FIRM: HDR Engineering Inc.

Date: 3/3/09

Project: Manchester Road
 Section:
 County: DuPage Option
 IDOT Job No.:

Sheet 1 of 1

PAYROLL CLASSIFICATION	AVG. HOURLY RATES	Team Management and Coordination			Construction Observation			RFI / Shop Drawing Review		
		HOURS	% PART.	WGTD RATE	HOURS	% PART.	WGTD RATE	HOURS	% PART.	WGTD RATE
Project Principal	\$ 70.00	61	6.05%	4.23	0	0.00%	0.00	0	0.00%	0.00
Project Manager IV	\$ 67.12	420	41.63%	27.94	0	0.00%	0.00	0	0.00%	0.00
Resident Engineer/Civil Engineer IV	\$ 42.57	0	0.00%	0.00	3695	36.82%	15.68	0	0.00%	0.00
Sr. Civil III/ Asst Resident Engineer	\$ 43.10	0	0.00%	0.00	3420	34.08%	14.69	0	0.00%	0.00
Sr. Construction Observer-QA/QC Reviewer	\$ 48.96	332	32.90%	16.11	0	0.00%	0.00	0	0.00%	0.00
Construction Observer	\$ 30.91	0	0.00%	0.00	2920	29.10%	8.99	0	0.00%	0.00
Structural Eng IV/Shop Drawing Reviewer	\$ 49.24	0	0.00%	0.00	0	0.00%	0.00	80	52.63%	25.91
Structural Eng I/Shop Drawing Reviewer	\$ 27.29	0	0.00%	0.00	0	0.00%	0.00	72	47.37%	12.92
Clerical IV	\$ 32.43	196	19.43%	6.30	0	0.00%	0.00	0	0.00%	0.00
TOTALS		1009	100.00%	54.58	10035	100.00%	39.36	152	100.00%	38.84
								0	0.00%	0.00

Organization Chart

04/27/2007

City of Wheaton
Wesley Street/ Manchester Road
Construction Engineering
Services

City of Wheaton
Paul Redman
City Engineer



Principal-in-Charge
Jeff Dailey, PE

Project Manager
Jay Chiglo, PE

QA/QC
T. Ryan Issel, PE
Barry Kravitz, PE, SE

Resident Engineer
David Wong, PE

Assistant Resident Engineer
Shreyas Shevate

Shop Drawings / RFIs
Victor Van Santen, PE, SE
Julie Hero, EI

Construction Inspectors
Chirag Dave - Document Control
Michael Murtaugh - Inspector
Rey Garcia - Inspector

Technical Support Advisors
Structural
Lance Peterman, PE, SE
Victor Van Santen, PE, SE

Railroad Coordination
Jay Chiglo, PE

HDR

ONE COMPANY | Many Solutions™

Subconsultant Team

Material Testing /Geotechnical: TSC
Survey: Chastain & Associates, LLC



8550 W BRYN MAWR
SUITE 900
CHICAGO, ILLINOIS 60631

773-714-0050
FAX 773-714-0058

March 5, 2009

HDR, Inc.
8550 W Bryn Mawr Avenue
Suite 900
Chicago, IL
60631-3223

Re: Survey QA/AC Manchester Road, Wheaton, IL

Dear Mr. Chiglo;

Pursuant to your request we are providing you with this fee proposal for professional services associated with construction on the abovementioned project.

Scope of Work - The following will be performed

Contractor Meeting & Coordination

We will meet with the contractor to gain understating of the schedule and sequence of construction to better coordinate our effort in inspecting the layout and construction of the job.

Verify Site Control

Discovery and verification of the site control will be completed and a comparison with plan data will be made to confirm the information is correct.

Plan Review & QC Prep. Calcs.

A review of the plans will be completed and computations will be made to insure accurate QC can be performed in the field as the work progresses. This will focus on alignment, cross-section, and geometrics.

Locate and Verify Contractor Staking & Construction

As construction progresses we will inspect, record and determine if construction is being completed in accordance with the plans intent.

Data Reduction & Reporting

Data collected will be recorded electronically and in standard field books. Reporting will be completed in the field books and additional forms as required by the work.

Additional Documentation

Final documentation will be completed at the completion of construction as required.

We propose to perform the Survey QA/AC for Manchester Road for a **Fee of \$8,310.00**

(The stated fee is for one surveyor/inspector for 100 man-hours, including direct costs)

If you find this quote acceptable we will prepare an Agreement for Professional Engineering Services for you to execute.

If you have any questions or comments, please contact Daniel T. Jedrzejak in our Chicago office

Sincerely,

D. Sladek, PLS
Survey Manager

**FIRM
PSB
PRIME/SUPPLEMENT**

Homer L. Chastain & Assoc
Manchester Rd, Wheaton

OVERHEAD RATE
COMPLEXITY FACTOR

1.1993
0

DATE _____

DF-824-039
REV 12/04
03/06/09

[illegible]

DBE

DBE 0.00%

PREPARED BY THE AGREEMENTS UNIT

Homer L. Chastain & Assoc
Manchester Rd

AVERAGE HOURLY PROJECT RATES

24-039
12/04

PRIME/SUPPLEMENT

DATE 03/06/09

SHEET

$$\frac{2}{OF} 4$$
[illegible]

PREPARED BY THE AGREEMENTS UNIT

Printed 3/6/2009 5:22 PM

[illegible]

\$31.43
\$16.37

Surveyor II
Surveyor I

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
----------------	--------------	-----------------

ESCALATION FACTOR

%00'0

PAYROLL RATES

60/90/80

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

Route: Manchester Road
Wheaton, IL
DuPage County

06-Mar-09

Item No.	Item	Note Ref.	Quantity	Units	Unit Rate	In-House Direct Cost	(Non-for-Profit) Outside Service Direct Cost.
1	Vehicles		12	Days	\$ 45.00	\$ 540.00	
	Totals					\$ 540.00	-
	Grand Total Direct Costs					\$	\$ 540.00

March 10, 2009



TESTING SERVICE CORPORATION

Local Offices:

457 E. Gundersen Drive, Carol Stream, IL 60188-2492
630.653.3920 • Fax 630.653.2726

209 Cleveland Street, Suite C, Cary, IL 60013-2978
847.516.0505 • Fax 847.516.0527

401 N. Riverside Drive, Suite 24, Gurnee, IL 60031-5914
847.249.6040 • Fax 847.249.6042

203 Earl Road, Suite A, Shorewood, IL 60404-9446
815.744.1510 • Fax 815.744.1728

8201 W. 183rd Street, Suite C, Tinley Park, IL 60477-9249
708.429.2080 • Fax 708.429.2144

650 Peace Road, Suite D, DeKalb, IL 60115-8401
815.748.2100 • Fax 815.748.2100

2235 23rd Avenue, Rockford, IL 61104-7334
815.394.2562 • Fax 815.394.2566

Mr. Jay Chiglo
HDR Engineering/Architecture, Inc.
8550 West Bryn Mawr Avenue, Suite 900
Chicago, Illinois 60631-3223

RE: P.N. 42,607 **Revised**
Independent Testing Laboratory Services
Wesley Street Bridge
Wheaton, Illinois

Dear Mr. Chiglo:

Testing Service Corporation (TSC) is pleased to submit this proposal to provide the Independent Testing Laboratory Services for the referenced project. The objectives of our services are to conduct and interpret tests, and to report our findings as directed by personnel appointed by HDR Engineering/Architecture, Inc. This proposal includes Prevailing Wage rates.

Based on the information provided, TSC understands that the following material testing services will be required for the project as it progresses:

- Soil in connection with site grading
- Soil in connection with excavating for foundations
- Soil in connection with excavating for paving, curbs, gutters and walks
- Concrete in connection with foundation and superstructure
- Bituminous paving and base course stone

TSC's field technicians are represented by Local 150 of the International Union of Operating Engineers. Supervision of the testing, observation and reporting is provided by a Registered Professional Engineer. Reports will generally be issued on a weekly basis as work progresses. Invoices will be issued monthly, subsequent to the reporting period.

The Services performed by TSC under this proposal are now subject to prevailing wage regulations under Illinois law. Prevailing wage rates are established in June by the State of Illinois. Should the established wage be changed between the time of this proposal and the time of work, it will be necessary to revise this proposal so that the rates required by law are properly reflected. Prevailing wage categories are defined as follows:

Material Tester I: Hand coring and drilling for testing of materials; field inspection of uncured concrete and asphalt.

Material Tester II: Field inspection of welds, structural steel, fireproofing, masonry, soil, facade, reinforcing steel, formwork, cured concrete and concrete and asphalt batch plants, adjusting proportions of bituminous mixtures.

A budget amount of Ninety Thousand Eight Dollars (\$90,008.00) is recommended for your project. This estimate is based on a review of plans and specifications provided by HDR Engineering/Architecture, Inc. and prior experience on similar projects. TSC's itemized estimate is included in the "Assumptions and Estimated Fee" portion of this proposal. Factors such as weather, client callout frequency, contractor efficiency and deviations from minimum testing and observation requirements may significantly impact the CME budget. Our fee is further subject to this proposal being accepted by you on or before March 31, 2009.

TSC's fees include TSC's services being performed subject to the attached General Conditions which are incorporated herein. Unless we receive written instructions to the contrary, invoices will be sent to:

Mr. Jay Chiglo
HDR Engineering/Architecture, Inc.
8550 West Bryn Mawr Avenue Suite 900
Chicago, Illinois 60631-3223
Tel: (773) 380-7900
Fax: (773) 380-7979

When completing the attached project data form, kindly indicate who is to receive copies of TSC's report and other project data.

Your consideration of our proposal is appreciated. We look forward to being of service to you on this project.

Respectfully Submitted,

TESTING SERVICE CORPORATION



Jeffrey R. Schmitz, P.E.
Civil Engineer

JRS:sa

Enc: General Conditions
Project Data Sheet

Approved and accepted for _____

by:

(NAME)

(TITLE)

(DATE)

SCHEDULE OF CHARGES

CONSTRUCTION MATERIALS ENGINEERING SERVICES

TSC is staffed and equipped to provide any of the following items that may be ordered by you.

- Soil in connection with site grading
- Soil in connection with excavating for Pile foundations
- Soil in connection with excavating for foundations
- Soil in connection with excavating for paving, curbs, gutters and walks
- Concrete in connection with foundation and superstructure
- Concrete in connection with concrete paving, curbs, gutters and walks
- Bituminous paving and base course stone

ITEM I FIELD SERVICES

- A. Material Tester I
- | | |
|------------------------|---------------------|
| Through May 31, 2010 | Per Hour: \$ 108.50 |
| Effective June 1, 2010 | Per Hour: \$ 111.50 |

- B. Material Tester II
Soil, Bituminous, Post-Tension Concrete or
Reinforcing Steel Placement Technician
- | | |
|------------------------|---------------------|
| Thru May 31, 2010 | Per Hour: \$ 110.50 |
| Effective June 1, 2010 | Per Hour: \$ 113.50 |

- C. Material Tester II
Structural Steel Level II Technician
and IDOT Level III
- | | |
|------------------------|---------------------|
| Thru May 31, 2010 | Per Hour: \$ 110.50 |
| Effective June 1, 2010 | Per Hour: \$ 113.50 |

- D. Transportation, Light Vehicle
- | |
|-------------------|
| Per Mile: \$ 0.60 |
|-------------------|

The time is portal-to-portal from the office servicing the project.
Increase hourly rate by 1.4 for over 8.0 hours per day or Saturday.
Increase hourly rate by 1.8 for Sunday or Holiday work.
The minimum trip charge for 0 to 4 hours is four (4) hours and for
4 to 8 hours is eight (8) hours Monday through Friday and eight (8)
hours on Saturday and Sunday.

Engineering services for summary report preparation are invoiced
at the Graduate Engineer Rate.

- E. Use of Nuclear Moisture/Density Gauge
- | |
|-------------------|
| Per Day: \$ 35.00 |
|-------------------|

- F. Pickup Concrete Test Samples

1. Fewer than 20 Cylinders at Grade Level
- | |
|--------------------|
| Per Trip: \$ 60.00 |
|--------------------|

- | | |
|--|---------------------|
| 2. 20 or more Cylinders or Cylinders in Basement or on Elevated Deck | Per Trip: \$ 120.00 |
| G. Structural Steel Test Equipment | |
| 1. Ultrasonic Flaw Detector | Per Day: \$ 50.00 |
| 2. Magnetic Particle Yoke | Per Day: \$ 35.00 |

ITEM II LABORATORY SERVICES

A. Soils

- | | |
|--|-----------------|
| 1. Compaction Curve to establish the Maximum Dry Unit weight and optimum water content | |
| a. Modified (AASHTO T180, ASTM D1557) | Each: \$ 175.00 |
| b. Standard(AASHTO T99, ASTM D698) | Each: \$ 165.00 |
| c. Add for Methods B, C, or D | Each: \$ 15.00 |
| 2. Thin-Walled Tube Samples | |
| a. Combined Water Content & Dry Unit Weight Determination | Each: \$ 15.00 |
| b. Unconfined Compressive Strength | Each: \$ 12.00 |

B. Portland Cement Concrete/Aggregates

- | | |
|---|------------------|
| 1. Concrete Test Cylinders (4"x8") | |
| a. Compressive Strength | Each: \$ 15.50 |
| b. Spares/Handling Charge | Each: \$ 15.50 |
| c. Trim End of Specimen When Necessary | Each: \$ 20.00 |
| 2. Concrete Test Cylinders (6"x12") | |
| a. Compressive Strength | Each: \$ 16.25 |
| b. Spares/Handling Charge | Each: \$ 16.25 |
| c. Trim End of Specimen When Necessary | Each: \$ 20.00 |
| 3. Mortar Cubes | |
| a. Compressive Strength | Each: \$ 15.50 |
| b. 2" Cube Mold | Per Day: \$ 8.00 |
| 4. Evaluation of Mortars for Plain & Reinforced Masonry | |
| a. Pre-Construction | Each: \$ 350.00 |
| b. Cement/Aggregate Ratio | Each: \$ 50.00 |
| 5. Masonry Block Prisms | Each: \$ 50.00 |
| 6. Sieve Analysis | |
| a. Washed w/200 Sieve | Each: \$ 85.00 |
| b. Unwashed | Each: \$ 68.50 |

C. Bituminous Concrete

1. Extraction Analysis
 - a. Unwashed Each: \$ 185.00
 - b. Washed Each: \$ 205.00
2. Compaction of Bituminous Mixture by Gyratory Methods and Bulk Specific Gravity Test Set of Two \$ 185.00
3. Theoretical Maximum Specific Gravity of Paving Mixture Each: \$ 90.00
4. Calibration of Ignition Oven for Asphalt Content by IDOT Methods: Each: \$ 650.00
5. Determining Asphalt Content by Ignition Oven: Each: \$ 100.00
6. Determining Asphalt Content by Ignition Oven and Washed Gradation: Each: \$ 175.00
7. Bulk Density of Core Specimens Each: \$ 40.00

ITEM III CONSULTATION AND REPORT PREPARATION

- A. Registered Professional Engineer, Principal Per Hour: \$ 170.00
- B. Registered Professional Engineer Per Hour: \$ 135.00
- C. Graduate Civil Engineer Per Hour: \$ 110.00
- D. Transportation
 1. Light Vehicle Per Mile: \$ 0.60
 2. Public Transportation Cost + 10%

The above rates are valid through December 31, 2010.

ASSUMPTIONS & ESTIMATED FEE

The following estimate is based on our current cost structure.

Earthwork & Piles					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II Thru May 31, 2010	Hour	140.0	110.50	\$ 15,470.00
2	Material Tester II (Overtime) Thru May 31, 2010	Hour	24.0	154.70	\$ 3,712.80
3	Material Tester II Effective June 1, 2010	Hour	140.0	113.50	\$ 15,890.00
4	Material Tester II (Overtime) Effective June 1, 2010	Hour	24.0	158.90	\$ 3,813.60
5	Travel, Light Vehicle	Mile	400	0.60	\$ 240.00
6	Nuclear Moisture Density Gauge	Day	25	35.00	\$ 875.00
7	Soil, Water Content and Dry Unit Weight Determination	Each	25	15.00	\$ 375.00
8	Laboratory Compaction Curve, Soil (Modified)	Each	3	175.00	\$ 525.00
9	Laboratory Compaction Curve, Stone (Modified)	Each	3	175.00	\$ 525.00
Sub-Total:					\$ 41,426.40

Estimate Basis - Figures based on information provided by your office for 10 days of pile installation and 200 hours of earthwork.

Pavement					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I Thru May 31, 2010	Hour	40.0	108.50	\$ 4,340.00
2	Material Tester I (Overtime) Thru May 31, 2010	Hour	0.0	151.90	\$ 0.00
3	Material Tester I Effective June 1, 2010	Hour	40.0	111.50	\$ 4,460.00
4	Material Tester I (Overtime) Effective June 1, 2010	Hour	0.0	156.10	\$ 0.00
5	Travel, Light Vehicle	Mile	100	0.60	\$ 60.00

Pavement					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
6	Nuclear Moisture Density Gauge	Day	10	35.00	\$ 350.00
7	Soils, Water Content & Dry Unit Weight Determination	Each	0	15.00	\$ 0.00
8	Laboratory Compaction Curve, Soil (Modified)	Each	0	175.00	\$ 0.00
9	Laboratory Compaction Curve, Stone (Modified)	Each	0	175.00	\$ 0.00
10	Extraction Analysis (Unwashed)	Each	0	185.00	\$ 0.00
Sub-Total:					\$ 9,210.00

Estimate Basis - As directed by your office, 80 hours for monitoring compaction on site for HMA mixes.

Site Concrete					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester I Thru May 31, 2010	Hour	50.0	108.50	\$ 5,425.00
2	Material Tester I (Overtime) Thru May 31, 2010	Hour	0.0	151.90	\$ 0.00
3	Material Tester I Effective June 1, 2010	Hour	50.0	111.50	\$ 5,575.00
4	Material Tester I (Overtime) Effective June 1, 2010	Hour	0.0	156.10	\$ 0.00
5	Travel, Light Vehicle	Mile	600	0.60	\$ 360.00
6	Pickup Test Samples (<20 at Grade Level) Thru May 31, 2010	Each	20	60.00	\$ 1,200.00
7	Pickup Test Samples (<20 at Grade Level) Effective June 1, 2010	Each	0	60.00	\$ 0.00
8	20 or more Cylinders or Cylinders in Basement or on Elevated Deck-Thru December 31, 2008	Each	0	110.00	\$ 0.00
9	20 or more Cylinders or Cylinders in Basement or on Elevated Deck-Effective January 1, 2009	Each	0	120.00	\$ 0.00
10	Concrete Test Cylinders (4"x8")	Each	0	15.50	\$ 0.00
11	Concrete Test Cylinders (6"x12")	Each	80	16.25	\$ 1,300.00
Sub-Total:					\$ 13,860.00

Estimate Basis - As directed by your office, 100 hours to test and sample concrete placed for structures.

Contingency Work					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II Thru May 31, 2010	Hour	50.0	110.50	\$ 5,525.00
2	Material Tester II (Overtime) Thru May 31, 2010	Hour	0.0	154.70	\$ 0.00
3	Portland Cement Concrete Technician Effective June 1, 2010	Hour	50.0	113.50	\$ 5,675.00
4	Portland Cement Concrete Technician (Overtime) Effective June 1, 2010	Hour	0.0	158.90	\$ 0.00
5	Travel, Light Vehicle	Mile	200	0.60	\$ 120.00
Sub-Total:					\$ 11,320.00

Estimate Basis - Only at the written request of Mr. Jay Chiglo, 100 hours for Material Tester II work.

Structural Steel					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Material Tester II Thru May 31, 2010	Hour	24.0	108.50	\$ 2,604.00
2	Material Tester II (Overtime) Thru May 31, 2010	Hour	12.0	154.70	\$ 1,856.40
3	Material Tester II Effective January 1, 2009	Hour	24.0	113.50	\$ 2,724.00
4	Material Tester II Effective January 1, 2009	Hour	12.0	158.90	\$ 1,906.80
5	Travel, Light Vehicle	Mile	3,000	0.60	\$ 1,800.00
6	Use of Ultrasonic Flaw Detector	Each	0	50.00	\$ 0.00
Sub-Total:					\$10,891.20

Estimate Basis - Six random plant trips to monitor the production of the steel fabrication.

Project Coordination & Report Preparation					
Item No.	ITEMS	Unit	Quantity	Unit Price	Amount
1	Project Engineer	Hour	30.0	110.00	\$ 3,300.00
2	Secretary	N/C	0.0	0.00	\$ 0.00
Sub-Total:					\$ 3,300.00

TSC's base fee schedule includes up to three copies of each report.

Estimated Total: \$ 90,007.60

RECOMMENDED BUDGET: \$ 90,008.00