KANE COUNTY DIVISION of TRANSPORTATION

Carl Schoedel, P.E. Director of Transportation County Engineer



41W011 Burlington Road St. Charles, IL 60175 Phone: (630) 584-1170 Fax: (630) 584-5265

DATE: January 9, 2009

TO: Jean Weems County Board Office FROM: Linda Haines

SUBJECT: January County Board

3 – Amendment #1 to the Phase II Engineering Services Agreement with Baker Engineering for the Stearns Road Bridge Corridor, Stage 4, McLean to IL 25, Kane County Section #07-00214-20-BR with Document Vet Sheet

3 – Contract / Contract Bond with Martam Construction for the South Elgin Sedge Meadow Adaptive Management Plan, Stearns Road Bridge Corridor, Kane County Section #08-00214-21-LS with Document Vet Sheet

TRANSMITTED FOR:

- () YOUR INFORMATION AND FILE
-) YOUR APPROVAL AND/OR CORRECTION
- () AS REQUESTED
- (X) SEE BELOW
- REMARKS: Please have the County Board Chairman sign, send to County Clerk for signature and seal, and then return to our office for further processing.

Thanks.

DOCUMENT VET SHEET for Karen McConnaughay Chairman, Kane County Board

ţ

Name of Document:	Amendment #1 to Phase II Engineering Services Agreement with	 .
Baker Engineering fo	r Stearns Road Bridge Corridor, Stage 4, McLean to IL 25, Kane	
County Section # 07-	00214-20-BR	
Submitted by:	Paul Holcomb	-
Date Submitted:	December 9, 2008	
Examined by:	Pat Jaeger (Print name) (Attution of the second sec	 -
	December , 2008 (Date)	
Comments:		
		-
Chairman signed: Document returned	Yes No (Date)	_
, ,		
	Rev. 8/05	

AMENDMENT NO.1 TO THE AGREEMENT BETWEEN THE COUNTY OF KANE & BAKER ENGINEERING, INC. FOR PHASE II ENGINEERING SERVICES OF THE STEARNS ROAD BRIDGE CORRIDOR – STAGE 4, MCLEAN TO IL 25 KANE COUNTY SECTION NO. 07-00214-20-BR

PURCHASE ORDER # 2009

This Amendment No.1 is made this 13th day of January 2009 between COUNTY OF KANE, a body corporate and politic of the State of Illinois (hereinafter referred to as the "COUNTY"), and BAKER ENGINEERING, INC. an Illinois corporation and professional engineering firm licensed to do business in the State of Illinois, with offices at 801 West Adams Street, Suite 600, Chicago, IL. 60607 (hereinafter referred to as the "CONSULTANT").

RECITALS

WHEREAS, pursuant to Kane County Resolution No. 07-385, the COUNTY and the CONSULTANT entered into an agreement for Phase II design services for the Stearns Road Bridge Corridor – Stage 4, McLean Blvd. to IL. Route 25 (herein after referred to as the "Agreement"); and

WHEREAS, additional Stearns Road Project engineering services at a cost of Three Hundred Thirty One Thousand One Hundred Ninety Three and 66/100 Dollars (\$331,193.66) are required which were not anticipated in the original scope of the Agreement; and

WHEREAS it is in the County's best interest to extend the upper limit of the Agreement by an additional Three Hundred Thirty One Thousand One Hundred Ninety Three and 66/100 Dollars (\$331,193.66) from \$3,425,435.04 to \$3,756,628.70.

NOW, THEREFORE, in consideration of the premises, the mutual covenants and agreements herein set forth, the parties do hereby mutually covenant and agree as follows, to wit:

- 1.0 RECITALS INCORPORATED
 - 1.1. The foregoing recitals are incorporated into this Amendment No. 1 as though fully set forth herein.
- 2.0 AGREEMENT REMAINS IN EFFECT
 - 2.1 The Agreement remains in full force and effect except to the extent that the provisions of this Amendment No.1 conflict with the previous Agreement, in which case the provisions of this Amendment No.1 shall control.

3.0 SCOPE OF SERVICES

3.1 Additional engineering services to provided by the CONSULTANT under the terms of this Amendment No. 1 shall be according to the specifications as set

forth in Exhibit "A" hereof, which exhibit is attached hereto, incorporated into and made a part of this Amendment No. 1.

4.0 COMPENSATION

- 4.1 Compensation for the engineering services that are a part of this Amendment No. 1 shall be \$331,193.66 based upon the scope of work set forth in Exhibit "A" which is attached hereto.
- 4.2 Total payments to the CONSULTANT under the terms of the Agreement and this Amendment No. 1 shall not exceed \$3,756,628.70.

5.0 PROJECT SCHEDULE

5.1. This Amendment No. 1 establishes the date of termination of the Agreement to be June 30, 2011 unless otherwise extended by agreement of the Consultant and the Kane County Engineer.

Save the provisions of this Amendment No.1 all other terms and conditions of the Agreement remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties set their hands and seals as of the date written above:

COUNTY OF KANE

BAKER ENGINEERING, INC.

NAME: David W Péllizzari TITLE: Vice President Karen McConnaughay, Chairman Kane County Board

ATTEST:

John A. Cunningham Kane County Clerk

ATTEST:

NAME JANICE L. CRAVENS TITLE: ADMINISTRATIVE ASSISTANT

Exhibit "A"

KANE COUNTY DIVISION OF TRANSPORTATION Stearns Corridor – Fox River Bridge – Contract 4

Baker Engineering, Inc. Supplement No. 1 November 2008

Supplemental Work

Additional work to the prime agreement is necessary to complete this project while reducing the overall construction cost and schedule. This additional engineering effort is for cost saving initiatives which have reduced the estimated construction cost by nearly \$1MM and due to additional studies required for the causeway permit and shared-use path detour to ensure the required construction schedule. Two (2) new Type, Size and Location studies are being required by IDOT, Bureau of Bridges and Structures (IDOT-BBS) for the construction of the appurtenant structures for the bridge. As part of these TSL's, additional geotechnical borings are needed. Additionally, KDOT has asked Baker to prepare plans for the approach pavement to the bridge carrying New Stearns Road over the North Arm of Brewster Creek. In developing the permit for the causeway, the regulatory agencies have required additional hydraulic analysis and design work for the causeway in order to obtain the necessary permits.

1. <u>TSL for Retaining Wall #1, Study and Design of Multi-Use Path R</u> amps Wall #2 and final plans specifications and estimates for Retaining Wall #1.

Baker will provide Type, Size and Location (TS&L) studies for KDOT review and IDOT-BBS approval. One TSL will be prepared for each of two locations. TSL #1 is for a new retaining wall and the study and preliminary design for Wall #2 is for the ramp structures along the west bank wall. The purpose and location of wall #1 is to support the embankment required for new abutment location used to shorten the Fox River Bridge by eliminating span 1 and truncate the embankments' permanent eastern encroachment onto the Trolley Spur line property. The purpose for studying Wall #2 was to determine the feasibility of eliminating an acquisition from the Forest Preserve and also to accommodate a contractor haul route.

The purpose and location of the ramps are to elevate path users to the multi-use path bridge level. While the design effort for these ramps was included in the prime agreement, the new requirement mandated by IDOT-BBS for providing a separate TS&L study specific to the ramps was unknown and not included in the prime agreement.

New geotechnical borings are also required for the retaining walls and ramps. Baker will coordinate the geotechnical survey to obtain borings and interpret that data for inclusion on the TSL submittals to IDOT BBS. Wang Engineering will perform a total of 5 supplemental borings required for the TSL's which is included in this supplement as services by others.

Five (5) additional borings and analyses (see attached)	\$44,512.00
TOTAL	649 hrs
Data Verification, modifications to preliminary design - Baker	<u>24 hrs</u>
Wall #2 study and preliminary design	100 hrs
Final PS&E for Wall #1	400 hrs
TSL Wall #1	125 hrs

KANE COUNTY DIVISION OF TRANSPORTATION Stearns Corridor – Fox River Bridge – Contract 4

Baker Engineering, Inc. Supplement No. 1 November 2008

2. Bridge Approach Pavement for North Arm of Brewster Creek

Baker will prepare details for the bridge approach pavement for the bridges carrying Stearns Road over the North Arm of Brewster Creek to be included in and let with the Contract 4 PS&E set. These details will incorporate the bike path and concrete barrier on the westbound approach pavement to match into the bridge structure designed in Contract 1A.

North Arm Brewster Creek Bridge Approach Pavement 20 hrs

3. <u>Causeway Development, Hydraulic Analysis and Constructability</u>

Due to the heightened sensitivity of the United Stated Army Corp of Engineers (USACOE) to flooding and erosion caused by construction conditions of recent bridge projects on the Fox River, additional effort is required to obtain a section 404 permit while maintaining ample contractor flexibility in terms of access to the river. In order to keep the permit request classified as a minor modification (1 month review versus 6 to 9 month delay for major modification) Baker will lead a coordination/design effort to identify a means to permit the project, provide the necessary contractor access and identify a construction scheme to limit the potential for constriction delay. Baker will provide additional permit application support for CBBEL through the development of buildable causeway parameters necessary for obtaining a final 404 permit. This is an iterative process which will require multiple internal meetings and meetings with the USACOE (200 hrs). Effort will include exhibit preparations and an additional permit update meeting (2 ppl at 6 hrs = 12 hrs), a joint field meeting (8 hrs) to explain the project to the regulatory agencies, a field meeting with Kane County Forest preserve District (2 ppl at 6 hrs) and iterative input/re-design to assist in running the hydraulic model (20 hrs). Develop exhibits and coordinate submittal for IDNR-OWR to advertise for 21-day public comment period (24 hours). Baker to meet and coordinate as necessary within Baker as well as outside entities including crane operators, steel fabricators, and pre-fab truss vendors to identify the most cost-effective causeway parameters. CBBEL-West will lead the meeting joint agency meeting and be responsible for the necessary hydraulic work to obtain the permit in advance of bid award within their original contract scope.

Constructability/Contractor Access Study	200 hrs
Agency Coordination, Meetings, Field visits	32 hrs
Review of Hydraulic Assessment - Baker	20 hr
IDNR-OWR	<u>24 hrs</u>
TOTAL	276 hrs
Causeway Hydraulics-CBBEL	\$24,421.54
Causeway Permitting-CBBEL	\$13,681.14

KANE COUNTY DIVISION OF TRANSPORTATION Stearns Corridor – Fox River Bridge – Contract 4

Baker Engineering, Inc. Supplement No. 1 November 2008

4. Bike Path Detour Study

Baker will prepare a conceptual Multi-Use path detour study to assess several alternates to will avoid a complete closure of the Fox River Trail for the duration of the Highway/Bridge project. The report will evaluate feasibility, schedule implications, capital cost, and user impact of the identified alternatives. The report will summarize information for each detour allowing stakeholder evaluation of alternatives.

Detour Study

60 hrs

5. <u>Historic Site Survey and Design</u>

Baker to coordinate survey and a layout of points defining access to historic site along east bank of Fox River. Work also includes path design (horizontal and vertical alignments) and typical section.

Horizontal Geometry	16 hrs
Vertical Geometry	16 hrs
Project Quantities	<u>4 hrs</u>
TOTAL	36 hrs

6. Additional Bridge Aesthetics

This additional effort includes rendering development (150 hrs) and pick-a-bridge presentation (3 ppl at 4 hrs) additional rendering development and details and a revised pick-a-bridge model. Rendering development includes the additional effort to incorporate various pier aesthetic strategies based on meetings/discussions with KDOT staff and County executives, contractors and formliner providers. Investigations and feasibility assessment for the following items is required; bike railings (20 hrs), pre-fabricated truss modifications to mimic CC&P railroad bridge (16 hours), lighting modifications (24 hrs) and new renderings to incorporate new/revised elements (80 hrs).

Additional Bridge Aesthetics	<u>302 hrs</u>
TOTAL	302 hrs

7. Railroad/Trolley Coordination and Constructability

This additional effort includes meeting with trolley group (4ppl at 6 hrs) and preparation of minutes. Constructability and access evaluations will need to be conducted to identify feasible contractor access while minimizing risk and protecting track, roadbed, catenaries and utilities (100 hrs), and develop special provisions (120 hrs). Special provisions to include various details up to and including plan drawings to depict temporary crossings and riding surfaces, primary and secondary catenaries protection schemes, access protection. Right of Way and easement requirements will be evaluated and presented to KDOT. Two field visits will also be conducted to check field conditions for the trolley and utilities (2 ppl at 6 hrs, twice). Kimicata Rail Consulting will be used to define technical requirements for the special provisions needed for this work.

Trolley Coordination and Constructability	268 hrs
Rail Design – Kimicata Rail Consulting	\$12,000

Baker Engineering, Inc. Supplement No. 1 November 2008

8. Hydraulic Report for McLean Blvd Box Culvert (Portion for Stage 4 Only)

Per IDOT requirements, CBBEL to prepare a hydraulic report for the McLean Boulevard box culvert. Details can be found in the CBBEL scope of work document found as an attachment in this proposal.

McLean Avenue Hydraulic Report - CBBEL and CBBEL/West \$12.895.69

TASK SUB-TOTAL

QUALITY CONTROL/QUALITY ASSURANCE 9.

Baker to perform internal QC/QA on deliverables prior to submission. Two percent of total task hours (1611 @ 3% = 48 hrs).

QC/QA

10. Project Administration/Management, Project Coordination and **Meetings**

Baker to provide necessary project management and coordination of additional scope items (1611 hrs @ 3% = 48. Technical Advisory Committee meeting (1ppl @ 5hrs), project corridor meetings (1.5ppl @ 5 hrs @ 10 meetings) and meeting with forest preserve (1ppl@ 5 hrs).

4

Project Administration, Management and Meetings

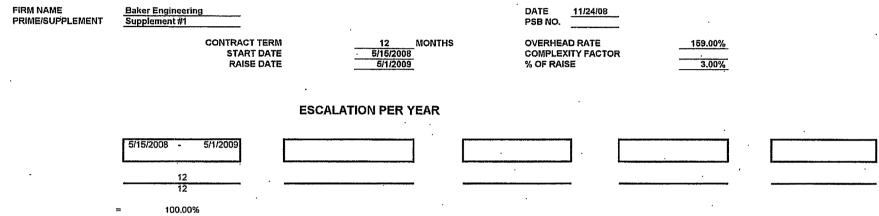
Total Baker Effort: Total Sub-Consultant Cost: 1,792 hrs \$107,510.37

48 hrs

133 hrs

1611 hrs

PAYROLL ESCALATION TABLE FIXED RAISES



= 1.0000

The total escalation for this project would be:

0.00%

Bureau of Design and Environment

、 ·

Printed 11/24/2008 1:08 AM

PAYROLL RATES Baker Engineering

DATE

11/24/08

FIRM NAME PRIME/SUPPLEMENT PSB NO.

ESCALATION FACTOR

Supplement #1

.

0.00%

CLASSIFICATION	CURRENT RATE	PROPOSED RATE	CALCULATED RATE	DIFF
Project Principal	\$70.00	\$70.00	\$70.00	\$0.00
Project Manager II/III	\$58.18	\$58.18	\$58.18	\$0.00
Project Manager I	\$49.00	\$49.00	\$49.00	\$0.00
Project Engineer I/II	\$36.46	\$36.46	\$36.46	\$0.00
Civil Associate II	\$28.88	\$28.88	\$28.88	\$0.00
Civil Associate I	\$26.14	\$26.14	\$26.14	\$0.00
CAD Drafter	\$21,96	\$21.96	\$21.96	\$0.00
Admin	\$20.45	\$20.45	\$20.45	\$0.00
Senior Bridge Engineer	\$47.77	\$47.77	\$47.77	\$0.00
Bridge Engineer	\$36.34	\$36.34	\$36.34	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
	·		\$0.00	\$0.00
		·	\$0.00	\$0.00
	•		\$0.00	. \$0.00
	•		\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00
			\$0.00	\$0.00

PREPARED BY THE AGREEMENTS UNIFrinted 11/24/2008 1:08 AM

COST PLUS FIXED FEE . COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039 REV 12/04

FIRM	Baker Engineering			DATE	11/24/08
PSB		OVERHEAD RATE	1.59		
PRIME/SUPPLEMENT	Supplement #1	COMPLEXITY FACTOR	0		

DBE				OVERHEAD	IN-HOUSE		Outside	SERVICES		1	% OF
DROP	ITEM .	MANHOURS	PAYROLL	&	DIRECT	FIXED	Direct	BY	. DBE	TOTAL	GRAND
вох				FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL		TOTAL
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	<u>(H)</u>	(B-G)	
1	TSL's-Ret.Wall, Ramps	649	26,686.90	42,432.17		9,874.15		44,512.00		123,505.22	37.29%
. 2		20	638.24	1,014.80		236.15				1,889.19	0.57%
. 3		276	13,269.08	21,097.84		4,909.56		38,102.68		77,379.16	23.36%
4	Bike Path Detour Stud		2,394.32	3,806.97	•	885.90				7,087.19	2.14%
5	 Historic Site Survey & I 		1,166.00	1,853.94		431.42				3,451.36	1.04%
6			9,419.48	14,976.97		3,485.21				27,881.66	8.42%
7	Trolley Coord & Constr	268	12,057.12	19,170.82	•	4,461.13		12,000.00		47,689.08	14.40%
8		0	0.00	0.00		0.00		12,895.69		12,895.69	3.89%
9		48	2,417.88	3,844.43		894.62				7,156.92	2.16%
· 10	Administration, Proj Co	· 133	7,519.66	11,956.26		2,782.27				22,258.19	6.72%
				•							
	· .										
·		·					•				
					· ·						
· ·				· · ·							
							÷				
							· · · · ·				
	· · · · · · · · · · · · · · · · · · ·										
	······									 	
		•						······			
											· · · · · ·
								· · · · · · · · · · · · · · · · · · ·			
										·	
					· · ·						
					****	i	······				
	Subconsultant DL					0.00					
·		1700	75 500 00	100 151 00	0.00		0.00	107 540 07		004 400 00	100 0001
	TOTALS	1792	75,568.68	120,154.20	0.00	27,960.41	0.00	107,510.37	0.00	331,193.66	100.00%

DBE 0.00%

;

PREPARED BY THE AGREEMENTS UNIT

Printed 11/24/2008 1:08 AM

AVERAGE HOURLY PROJECT RATES

FIRM Baker Engineering PSB

DATE 11/24/08

PRIME/SUPPLEMENT Supplement #1

.

SHEET <u>1</u> OF <u>5</u>

PAYROLL	AVG	TOTAL PROJECT RATES			TSL's-R	et.Wall, Ra	mps & G				Bridge /	Approach	Paveme	Causew	ay_Acces	s_Hydr_	Bike Pa	ih Detour	Study
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg	_	Part.	Avg
Project Principal	70.00	79	4.41%	3.09	18	2.77%	1.94							16	5.80%	4.06	1	1.67%	.1.17
Project Manager II/III	58.18	231	12.89%	7.50	12	1.85%	1.08							64	23.19%	13.49	16	26.67%	15.51
Project Manager I	49.00	201 ·	11.22%	5.50	15	2.31%	1.13							60	21.74%	10:65			
Project Engineer I/II	36.46	108	6.03%	2.20	24	3.70%	1.35				8	40.00%	14.58	56	20.29%	7.40	20	33.33%	12.15
Civil Associate II	28.88	103	5.75%	1.66							12	60.00%	17.33	20	7.25%	2.09	23	38.33%	11.07
Civil Associate I	26.14	88	4.91%	1.28	80	12.33%	3.22												
CAD Drafter	21.96	248	13.84%	3.04															
Admin	20.45	0																	
Senior Bridge Engine	47.77	474	26.45%	12.64	250	38.52%	18.40							60	21.74%	10.38			
Bridge Engineer	36.34	260	14.51%	5.27	250	38.52%	14.00												
		0								•									
		0.														,			
		0																	
		0																	
		0									T	_							
		0																	
		0		•															
· ·		0																	
		0				·					1								
		0																	
		0																	
		0																	
		0																	
		0	·																
		0			·														·
		0																	
		0																	
TOTALS		1792	100%	\$42.17	649	100.00%	\$41.12	O	0%	\$0.00	20	100%	\$31.91	276	100%	\$48.08	60	100%	\$39.91

AVERAGE HOURLY PROJECT RATES

FIRM Baker Engineering

PSB

PRIME/SUPPLEMENT Supplement #1

DATE 11/24/08

.

SHEET

2 OF 5

PAYROLL	AVG	Historic	Site Survey	& Design	Bridge A	esthetic De	tail Rende	Trolley C	oord & Cor	structabi	Hyd. Rep	oort (Stage 4	•}	QC/QA	. •		Administ	ration, Pro	Coordina
	HOURLY				Hours	%		Hours	%		Hours			Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg	Í (Part	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Project Principal	70.00				12	3.97%	2.78	8	2.99%	2.09							24	18.05%	12.63
Project Manager II/III	58.18	2	5.56%	3.23	28	9.27%	5.39	40	14.93%	8.68				12	25.00%	14.55	57	42.86%	24.93
Project Manager I	49.00	4	11.11%	5.44	10	3.31%	1.62	80	29.85%	14.63	·						32	24.06%	11.79
Project Engineer I/II	36.46															· ·			·
Civil Associate II	28.88	24	66.67%	19.25	8	2.65%	0.77	16	5.97%	1.72				•				•	
Civil Associate I	26.14				8	2.65%	0.69												
CAD Drafter	21.96	4	11.11%	2.44	200	66.23%	14,54	44	16.42%	3.61									
Admin	20.45																		
Senior Bridge Engine					28	9.27%	4.43	-80	29.85%	14.26			· .	36	75.00%	35.83	20	15.04%	7.18
Bridge Engineer	36.34	2	5.56%	2.02	8	2.65%	0.96									· .			
							· .									<u> </u>			ļ
		· · ·								L				[<u> </u>			
·																			
													l						
																			· .
															•	1			
	•		·																
									•										
															•				
										1		•							
						•	·											•	
		·																	
									•							1			
															•	L			
:			·								·					·			
TOTALS		36	100%	\$32.39	302	100%	\$31.19	268	100%	\$44.99	0	0%	\$0.00	48	100%	\$50.37	133	100%	\$56.54

.

Christopher B. Burke Engineering West, Ltd. Stearns Road Stage 4 Contract Out of Scope Effort

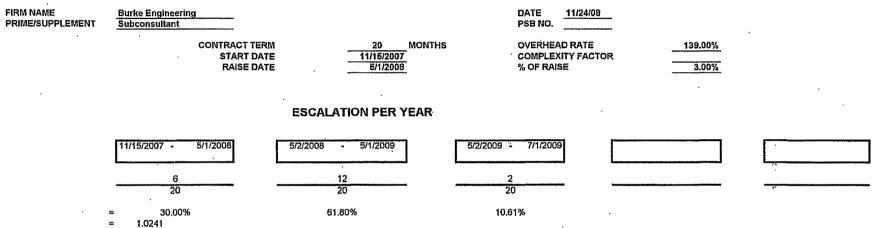
<u>Task 1 – Causeway and Pedestrian Bridge Hydraulics:</u> Utilizing the model developed for the permanent structure CBBEL evaluated several causeway alternatives. The hydraulics were developed to balance construction access and to minimize the potential for increased water surface evaluations for all flood events. Causeway alternatives developed by Baker were tested and refined throughout the process.

<u>Task 2 – Causeway and Pedestrian Bridge Permitting</u>: CBBEWL worked with Baker and CBBEL to develop a Phase I causeway concept for construction of the main river bridge. The work included evaluating the permit opportunities and constraints for establishing a partial causeway on both sides of the Fox River. The concept was vetted in a meeting with the USACE and revisions to the concept were made and represented. Permitting of the causeway was added to the USACE permit submittal in August 2008. CBBEL submitted a Permit Application to IDNR.

<u>Task 3 – McLean Blvd. Culvert Hydraulic Report</u>: CBBEWL prepared a Hydraulic Report required by the IDOT District 1 Hydraulics Office for the McLean Blvd. box culvert. This report was required because an area that wasn't previously tributary to the McLean Blvd. drainage was added during the design phase following Phase I approval. The flow diversion was created as a result of the County's desire to reduce ROW take. The effort included hydrologic and hydraulic modeling necessary to satisfy IDOT that the drainage was handled properly and that adequate capacity was present to handle the diversion. The work also included the preparation of all necessary exhibit and calculation for an IDOT Hydraulic Report. The effort included is only the portion estimated as necessary for Stage 4.

CBBEWL Out of Scope Effort_11_24_08.doc

PAYROLL ESCALATION TABLE FIXED RAISES



The total escalation for this project would be:

2.41%

Bureau of Design and Environment

or Design and Environment

. Evinted 11/24/00

Printed 11/24/2008 1:08 AM

DF-824-039 REV 12/04

PAYROLL RATES

11

FIRM NAME PRIME/SUPPLEMENT PSB NO.

.....

Burke Engineering Subconsultant

DATE

11/24/08

ESCALATION FACTOR

2.41%

CLASSIFICATION	CURRENT RATE	PROPOSED RATE	CALCULATED RATE	DIFF
Principal	\$70.00	\$70.00		\$1.69
Engineer VI	\$67.78	\$67.78	\$69.41	\$1.63
Engineer V	\$55.70	\$55.70	\$57.04	\$1.34
Engineer IV	\$45.32	\$45,32	\$46.41	\$1.09
Engineer III	\$36.15	\$36.15	\$37.02	\$0.87
Engineer I/II	\$27.93	\$27.93	\$28.60	\$0.67
Env. Res. Spec. V	\$53.75	\$53.75	\$55.04	\$1.29
Env. Res. Spec.IV	\$40.27	\$40.27	\$41.24	\$0.97
Env. Res. Spec. III	\$35.19	\$35.19	\$36.04	\$0.85
Env. Res. Spec. II	\$27.50	\$27.50	\$28.16	\$0.66
Env. Res. Technician	\$29.50	\$29.50	\$30.21	\$0.71
Survey V	\$64.00	\$64.00	\$65.54	\$1.54
Survey IV	\$45.00	\$45.00	\$46.08	\$1.08
Survey III	\$43.00	\$43.00	\$44.04	\$1.04
Survey II	\$27.79	\$27,79	\$28.46	\$0.67
Survey I	\$23.67	\$23,67	\$24.24	\$0.57
Cad Manager	\$44.00	\$44.00	\$45.06	\$1.06
Asst. Cad Manager	\$42.50	\$42.50	\$43.52	\$1.02
Cad II	\$36,62	\$36.62	\$37.50	\$0.88
Cad I	\$23.23	\$23.23	\$23.79	\$0.56
Engineering Tech IV	\$42.02	\$42.02	\$43.03	\$1.01
Engineering Tech III	\$32.80	\$32.80	\$33.59	\$0.79
Engineering Tech I/II	\$20.00	\$20.00	\$20.48	\$0.48
GIS Specialist III	\$32.50	\$32.50	\$33.28	\$0.78
GIS Specialist I/II	\$17.50	\$17.50	\$17.92	\$0.42
Administrative	\$25.29	\$25.29		\$0.61
Engineering Intern	\$13.00	\$13.00		\$0.31

PREPARED BY THE AGREEMENTS UNIFrinted 11/24/2008 1:08 AM

COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

FIRM PSB PRIME/SUPPLEMENT

Subconsultant

Burke Engineering

DBE	T			OVERHEAD	1	SERVICES		<u> </u>	% OF
DROP	ITEM	MANHOURS	PAYROLL	&	FIXED	BY	DBE	TOTAL	GRAND
BOX	·			FRINGE BENF	FEE	OTHERS	TOTAL		TOTAL
		(A)	(B)	(0)	(E)	(G)	(H)	(B-G)	
	SUPPLEMENT NUMBER 1			······································					
	· · · · · · · · · · · · · · · · · · ·	0							
		·					·		· ·
	Causeway Hydraulics	200	8,848.38	12,299.25	3,273.90			24,421.54	47.89%
	Causeway Permitting	54	2,420.70	3,364.78	895.66			13,681.14	26.83%
	McLean Blvd Hydraulic Report	36	2,226.70	3,095.11		6,750.00		12,895.69	25.29%
·····	· · · · · · · · · · · · · · · · · · ·								**************************************
				······································					······································
·····	· · · · · · · · · · · · · · · · · · ·								
		· · · · ·							
				<u>-</u>					
			· .						
			<u> </u>						
		·							
				•					
		· ·							
					·				
*******									Name
			· · · · · · · · · · · · · · · · · · ·						
					<u> </u>			<u> </u>	
	······································								
		PREPAR	ED BY THE		ENTS IIN	IT		Printed 11/24	2000 4:00 4
								Fillited 11/24	2000 1.08 /
	TOTALS	290	13,495.79	18,759.14	4,993.44	13,750.00	0.00	50,998.37	100.00%

DF-824-039 REV 12/04

11/24/08

DATE

<u>1.39</u> <u>0</u>

1 OF 1

DATE 11/24/08

SHEET

AVERAGE HOURLY PROJECT RATES

FIRM PSB

Burke Engineering Subconsultant .

.

PRIME/SUPPLEMENT

.

•

.

PAYROLL AVG TOTAL PROJECT RATES McLean Blvd Hydraulic R **Causeway Hydraulics Causeway Permitting** HOURLY Hours % Wgtd Hours % Watd Hours % Wgtd Hours % Wgtd Hours ·% Wgtd Hours % Wgtd CLASSIFICATION RATES Part. Part. Avg Part. Avg Part. Avg Part. Part Avg Avg Avg Principal 71.69 0 69.41 28 Engineer VI 6.70 12 6.00% 2 9.66% 4.16 3,70% 2.57 14 38.89% 26.99 Engineer V 57.04 58 20.00% 11.41 24 12.00% 6.85 12 22.22% 12.68 22 61.11% 34.86 46.41 72 Engineer IV 24 83% 11.52 60 30.00% 13.92 12 22.22% 10.31 Engineer III 37.02 100 12.77 40 00% 34.48% 80 14.81 20 37.04% 13.71 Engineer I/II 28.60 0 Env. Res. Spec. V 55.04 0 Env. Res. Spec.IV 41.24 0 36.04 0 Env. Res. Spec. III 0 Env. Res. Spec. II 28.16 30.21 0 65.54 Survey V Ō Survey IV 46.08 0 44.04 Ō Survey III 28.46 Ō Survey II Survey I 24.24 0 Cad Manager 45.06 Ō Asst. Cad Manager 43.52 0 Cad II 37.50 32 12.00% 11.03% 4.14 24 4.50 8 14.81% 5.56 Cad I 23.79 0 **Engineering Tech IV** 43.03 0 33,59 Engineering Tech III 0 Engineering Tech I/II 20.48 0 **GIS Specialist III** 33.28 0 GIS Specialist I/II 17.92 0 25.90 Administrative 0 Engineering Intern 13.31 0 TOTALS 290 100% \$46.54 0 0.00% \$0.00 0 0% \$0.00 200 100% \$44.24 54 100% \$44.83 36 100% \$61.85



1145 North Main Street Lombard, Illinois 60148 Plione (630) 953-9928 www.wangeng.com

March 11, 2008

Mr. Kent Zinn, P.E. Baker Engineering, Inc. 801 W. Adams Street, Suite 600 Chicago, IL 60607

Reference: New Stearns Road Corridor and the Fox River crossing FAP 361, Section 98-00214-02-BR South Elgin, Kane County, Illinois

Subject: Additional Geotechnical Engineering Services WEI Supplemental Proposal No. P070814S1

Dear Mr. Zinn:

Wang Engineering, Inc. (WEI) is pleased to submit this supplemental proposal for additional geotechnical investigations and engineering services to support the design of the proposed New Stearns. Road over the Fox River in Kane County, Illinois. The following is our understanding:

- 1. A new MSE retaining wall is proposed to be located parallel to the Interchange Railroad track in the span 1 area on the northeast of the west abutment and possibly a small MSE wall southeast of the west abutment on the east side of the Fox River.
- 2. A new Mixed-use path ramp will be constructed along the Fox River, north and south of the proposed bridge on the east bank of the Fox River.

Our original proposal (P070814 dated October 2, 2007) included geotechnical work for IL Route 25 portion at the intersection of New Stearns Road. However, we now understand that the IDOT will provide geotechnical engineering services for IL Route 25 which will include performing borings and engineering analysis, and providing complete Roadway Geotechnical Report. Per your request, this supplemental proposal includes cost saving for not performing geotechnical work in this proposal.

Based on this project understanding and discussion with Baker Engineering, Inc. (Baker), the following describes our geotechnical services, as well as our proposed scope of work and cost estimate.

Scope of Work:

The purpose of our geotechnical investigations will be to determine the soil and groundwater conditions, perform geotechnical engineering analyses, and provide recommendations for the design of the new retaining wall and the Mixed-use path ramp structure. WEI will perform borings, laboratory testing, engineering analyses, and prepare geotechnical reports as per IDOT procedure/criteria. IDOT 1999 Geotechnical Manual and 2006 Bridge Manual requirements will be followed. We propose the following geotechnical engineering services.

New Stearns Road WEI No. P070814S1 March 11, 2008 Page 2 of 3



- Perform one structure borings for a new MSE retaining wall parallel to Interchange Railroad. For estimating purposes we assumed one boring to a depth of 80 feet. A separate SGR will be prepared.
- Perform 4 structure borings, 2 north and 2 south of the bridge, for a new Mixed-use path ramp structure. For estimating purposes, we assumed 4 borings to 80 feet depth. A separate SGR will be prepared.

Geotechnical Drilling Services:

WEI will provide equipment, labor, and associated materials to drill and sample borings. The borings will be advanced with hollow stem augers or rotary mud. Soil samples will be collected with split barrel samplers according to AASHTO T 206-87, "Penetration Test and Split-Barrel Sampling of Soils." The soil will be sampled in accordance with 1999 IDOT Geotechnical Manual.

Field Supervision:

Before drilling, WEI will clear utilities through JULIE. WEI will also obtain the required permits. The field engineer will monitor drilling activities, maintain daily field notes and the soil boring logs, as well as receive, classify, and prepare soil samples for laboratory analysis. The field engineer will also perform penetrometer and Rimac unconfined compressive strength tests on cohesive soil samples; he will also monitor the groundwater level in boreholes.

Laboratory Testing:

After the completion of the drilling, all soil samples will be transported daily to our in-house laboratory in Lombard, Illinois. The soil-testing program will include natural moisture content, Atterberg limits and particle size analysis.

Engineering Analyses and Recommendations:

The geotechnical reports will include a detailed description of soil and groundwater conditions encountered, field and laboratory testing procedures and results, geotechnical engineering analyses performed, and recommendations and criteria for the design and construction of the proposed construction. The reports will also include site location map, boring location plan, boring logs, and soil profiles. The boring logs will also be provided in Microstation format to be included with the contract plans.

Scheduling:

WEI will start the project expediently upon receiving written authorization to proceed. We estimate that the field work would require 5 working days for completion after utilities clearance, permitting, and access agreements. The laboratory tests would be performed concurrent with the field investigation and would extend two weeks after the completion of field work. The geotechnical reports would be provided three weeks after the completion of laboratory program. WEI will expedite the project to our fullest means to meet your submittal deadlines.

> Geotechnical Construction Environmental Quality Engineering Services Since 1982

New Stearns Road WEI No. P070814S1 March 11, 2008 Page 3 of 3



Assumptions:

The cost estimate was prepared assuming the following conditions.

- 1. It is our understanding that Baker or the Kane County Division of Transportation (KDOT) will send letter to the properties owners informing about our work and provide us access approval to enter the property,
- 2. Baker will assist WEI in accessing the property,
- 3. The borings will be located in the field by WEI and as-drilled boring locations would be surveyed by Baker or their surveying Subconsultant,
- 4. No hazardous materials will be encountered, and
- 5. The current prevailing wages for the drilling personnel are reflected in the drilling cost.

If any of the above mentioned assumptions are not confirmed during the execution of the described scope of work in this proposal, additional costs might be incurred.

Estimated Cost:

WEI proposes to provide the above tasks on time and expense basis according to the attached cost estimates prepared separately for each scope of work. WEI will not exceed this upper limit without the KDOT and Baker approval. The breakdown of the cost is as follow.

1. Cost estimate for the MSE wall:	\$12,928.55
2. Cost estimate for the ramp structure:	\$31,583.50
3. Cost saving for IL Route 25 work:	\$7,698.01

Considering additional costs and saving as described above, the net supplemental cost is estimated to be \$36,814.04.

Wang Engineering, Inc. appreciates the opportunity to present this proposal. We look forward to continue our work with Baker Engineering, Inc. and the Kane County Division of Transportation on this project. If you have questions or if you require additional information, please contact us at (630) 953-9928.

Sincerely,

WANG ENGINEERING, INC.

Corina T. Farez, P.E., P.G. Vice President

Attachments: Cost Estimate for Consultant Services

Mohammed (Mike) A. Kothawala, P.E. Project Manager

Geotechnical Construction Environmental Quality Engineering Services Since 1982

COST ESTIMATE ADDITIONAL GEOTECHNICAL ENGINEERING SERVICES MSE RETAINING WALLS FOR BAKER ENGINEERING, INC.

WEI # P070814S1

			WEI Project # Date:	707-11-01 11-Mar-08
FITTO INVESTIGA	TIONS			
Task Description	Units	Unit	Price	Extended Co:
Drilling Coordination	0	\$115.00	/Hour	\$0.00
Mobilization (Truck Mounted Drill Rig)	· 0	\$623.15	/Each	\$0.00
Mobilization (ATV Mounted Drill Rig)	1	\$963,05	/Each	\$963.05
ATV Daily Charge	0.	\$283.25	/Day	\$0.00
Daily Mobilization	0	\$141.63	/Day	\$0.00
Stand-By Time Drill Mounted on Truck	0	\$283.25	/Hour	\$0.00
Stand-By Time Drill Mounted on ATV	0	\$283.25	/Hour	\$0.00
Drilling and Sampling				
Retaining Wall Borings				
Drilling including split spoon sampling at 2.5' sample interval to 30', 5' samp	le interval thereafte	217		
(SPT, Penetrometer, Rimac, Visual Classification Included)				
1 Boring @ 80 bgs				
Between 0 and 30 Feet				
Normal Working Hours	30.0	\$20.60		\$618.00
Restricted Hours (6 Hrs)	0.0	\$26.63		\$0.00
Night Work	0.0	\$25,50	/Foot	. \$0.00
Botween 30 and 50 Feet	•••			
Normal Working Hours	20.0	\$23.79		\$475.80
Restricted Hours (6 Hrs)	0.0	\$30.59		\$0.00
Night Work	0.0	\$29.46	/Foot	\$0.00
Between 50 and 75 Feet				
Normal Working Hours	25.0	\$26.63		\$665.75
Restricted Hours (6 Hrs)	0.0	\$33.42		\$0.00
Night Work	0.0	\$31.72	/Foot	\$0.00
Between 75 and 100 Feet				
Normal Working Hours	5.0	\$28.32		\$141.60
Restricted Hours (6 Hrs)	0.0	\$35.41		\$0.00
Night Work	0.0	\$35.12	/Foot	\$0.00
Borehole Abandonment and Surface Restoration				
Boring Backfilling with Lean Grout for Structure Borings Only			.	*** *
Normal Working Hours	80	\$7.36		\$588.80
Restricted Hours (6 Hrs)	0	\$8.50		\$0.00
Night Work	0	\$8.50	/F00t	\$0.00

Total Field Investigation

\$3,453.00

Page tof 2

WANG ENGINEERING, INC.

COST ESTIMATE ADDITIONAL GEOTECHNICAL ENGINEERING SERVICES <u>MSE RETAINING WALLS</u> FOR

BAKER ENGINEERING, INC.

	intes and the			
· · · ·	Units	Unit Price		Extended Cost
Permitting and Coordination of Field Activities (JULIE)				
Project Manager	1 Hrs.	\$133.95	/Hour	\$133.95
Staff Engineer	6 Hrs.	\$84.60	/Hour	\$507.60
Drilling and Sampling Supervision				
Field Inspector including travel time	10 Hrs.	\$55.80	/Hour	\$558.00
Support Vehicle including tolls	2 Days	\$50.50	/Day	\$101.00
	Cost Estim	ate for Field	Supervision	\$1,300.55

LAHORATORYTESTING

Item Description	Units	Unit J	Price	Extended Cos
Natural Moisture Content Determination	25 No.	\$5.92	/Test	\$148.00
Atterberg Limit Testing	2 No.	\$62.00	/Test	\$124.00
Particle Size Analysis				
Unwashed Sieve Analysis	0 No.	\$53.60	/Test	\$0.00
Washed Sieve Analysis	0 No.	· \$62.00	/Test	\$0.00
Hydrometer Analysis	0 No.	\$68.70	/Test	\$0.00
Combined Sleve and Hydrometer Analysis	2 No.	\$100.40	/Test	\$200.80
Soil Finer than #200 Sieve	0 No.	\$41.20	/Test	\$0.00

Classification	Units	Hourly Rates	Extended Cost
Principal-in-Charge	l Hrs.	\$160.50 /Hr.	\$160.50
QA/QC Reviewer	2 Hrs.	\$160.50 /Hr.	\$321.00
Project Manager	4 Hrs.	\$133.95 /Hr.	\$535.80
Senior Engineer	24 Hrs.	\$133.95 /Hr.	\$3,214.80
Project Engineer	16 Hrs.	\$86.07 /Hr.	\$1,377.12
StaffEngineer	20 Hrs.	\$84.60 /Hr.	\$1,692.00
Assistant Staff Engineer	4 Hrs.	\$55.80 /Hr.	\$223,20
Laboratory Technician	2 Hrs.	\$55.80 /Hr.	\$111,60
Project Administrative Assistant	1 Hrs.	\$66.18 /Hr.	\$66.18
	Engineering an	d Analysis and Reporting	\$7,702.20

Total Geotechnical Investigation Cost 312:028:55

Page 2of 2

WANG ENGINEERING, INC.

COST ESTIMATE ADDITIONAL GEOTECHNICAL ENGINEERING SERVICES MIXED-USE RAMP BORINGS . FOR BAKER ENGINEERING, INC.

	<u></u>	WEI Proje D	ct# 707-11-01 ate: 11-Mar-08
THE REPORT OF THE PARTY OF THE	STIGATIONS		
Task Description	Units	Unit Price	Extended Cos
Drilling Coordination	0	\$115.00 /Hour	\$0.00
Mobilization (Truck Mounted Drill Rig)	0	\$623.15 /Each	\$0.00
Mobilization (ATV Mounted Drill Rig)	1	\$963.05 /Each	\$963.05
ATV Daily Charge	1 .	\$283.25 /Day	\$283.25
Daily Mobilization	1	\$141.63 /Day	\$141.63
Stand-By Time Drill Mounted on Truck	1	\$283,25 /Hour	\$283.25
Stand-By Time Drill Mounted on ATV	0	\$283.25 /Hour	\$0.00
Drilling and Sampling			
Structure Borings			
Drilling including split spoon sampling at 2.5' sample interval to 30',	5' sample interval thereafte	n [*]	
(SPT, Penetrometer, Rimac, Visual Classification Included)		•	
4 Borings @ 80 feet bgs			
Between 0 and 30 Feet		•	
Normal Working Hours	120.0	\$20.60 /Foot	\$2,472.00
Restricted Hours (6 Hrs)	0.0	\$26.63 /Foot	\$0.00
Night Work	0.0	\$25.49 /Poot	\$0,00
Between 30 and 50 Feet			
Normal Working Hours	80.0	\$23.79 /Foot	\$1,903.20
Restricted Hours (6 Hrs)	0.0	\$30.59 /Foot	\$0.00
Night Work	0.0	\$29.46 /Foot	\$0.00
Between 50 and 75 Feet			
Normal Working Hours	100.0	\$26.63 /Foot	\$2,663.00
Restricted Hours (6 Hrs)	0.0	\$33.42 /Foot	\$0.00
Night Work	0.0	\$31.72 /Foot	\$0.00
Between 75 and 100 Feet			
Normal Working Hours	20.0	\$28.32 /Foot	\$566.40
Restricted Hours (6 Hrs)	0.0	\$35.41 /Foot	\$0.00
Night Work	0.0	\$35.12 /Foot	\$0.00
Borehole Abandonment and Surface Restoration			
Borehole Abandonment and Surface Restoration Boring Backfilling with Lean Grout for Structure Borings O	nìv		
Boring Backfilling with Lean Grout for Structure Borings O	nly 320	\$7.36 /Foot	\$2,355,20
		\$7.36 /Foot \$8.50 /Foot	\$2,355.20 \$0.00

Total Field Investigation \$11,630.98

Page 1of 2

WANG ENGINEERING, INC.

.

COST ESTIMATE ADDITIONAL GEOTECHNICAL ENGINEERING SERVICES MIXED-USE RAMP BORINGS FOR BAKER ENGINEERING, INC.

WEI # P070814S1

FIELD ACTIVICI	es in the later			
	Units	Unit Price		Extended Cost
Permitting and Coordination of Field Activities (JULIE)				
Project Manager	8 Hrs.	\$133.95	/Hour	\$1,071.60
Staff Engineer	8 Hrs.	\$84.60	/Hour	\$676.80
Drilling and Sampling Supervision				
Field Inspector including travel time	48 Hrs.	\$55.80	/Hour	\$2,678.40
Support Vehicle including talls	5 Days	\$50.50	/Day	\$252.50
· · ·	Cost Estim	ate for Field	Supervision	\$4,679.30



Item Description	Units	Unit Price	Extended Cost
Natural Moisture Content Determination	100 No.	· \$5.92 /Test	\$592.00
Atterberg Limit Testing	4 No.	\$62.00 /Test	\$248.00
Particle Size Analysis			
Unwashed Sieve Analysis	0 No.	\$53.60 /Test	\$0.00
Washed Sieve Analysis	4 No.	\$62.00 /Test	\$248.00
Hydrometer Analysis	0 No.	\$68.70 /Test	\$0.00
Combined Sieve and Hydrometer Analysis	4 No.	\$100.40 /Test	\$401.60
Soil Finer than #200 Sieve	0 No.	\$41.20 /Test	\$0.00
•		Total Laboratory Testing	\$1,489.60
CNGDNEERING ANA	LYSIS AND REPORT	KG IIII IIIIII	

Classification	Units	Hourly Rates	Extended Cost
Principal-in-Charge	· 2 Hrs.	\$160.50 /Hr,	\$321.00
QA/QC Reviewer	4 Hrs.	\$160.50 /Hr.	\$642.00
Project Manager	12 Hrs.	\$133.95 /Hr.	\$1,607.40
Senior Engineer	40 Hrs.	\$133.95 /Hr.	\$5,358.00
Project Engineer	32 Hrs.	\$86.07 /Hr.	\$2,754.24
Staff Engineer	24 Hrs.	\$84.60 /Hr.	\$2,030.40
Assistant Staff Engineer	16 Hrs.	\$55.80 /Hr.	\$892,80
Laboratory Technician	2 Hrs.	\$55.80 /Hr.	\$111.60
Project Administrative Assistant	1 Hrs.	\$66.18 /Hr.	\$66.18
	Engineering and	Analysis and Reporting	\$13.783.62

Total Geotechnical Investigation Cost

Page 2of 2

WANG ENGINEERING, INC.

COST SAVING GEOTECHNICAL ENGINEERING FOR IL ROUTE 25 KANE COUNTY, ILLINOIS FOR BAKER ENGINEERING, INC.

WEI Proposal No. P070814 Date: March 11, 2008

	TIGNTIONS	Unit Price	Extended Co
Mobilization (Truck Monmed Drill Rig)	0 No.	S605.00 /Each	So.o
Mobilization (ATV Mounted Drill Rig)	0 No.	\$935.00 /Each	\$0.0
ATV I/Day	0 Day		\$0.0
Alviday	0 Day	\$275.00 /Day	20.01
Stand-By Time Drill Mounted on Truck	0 Hrs.	\$275.00 /Hour	\$0,0
Stand-By Time Drill Mounted on ATV	0 Hrs.	\$275.00 /Hour	\$0,02
Support Auxiliary Truck	1 Days	\$100.00 /Day	\$100.00
Drilling Coordination and Project Management	2 Hrs.	\$115.00 /Hour	\$230,0
Water Truck to Service Coring	0 Days	\$137.50 /Day	\$0,00
Drilling and Samuling		•	
Ten Roadway Borings			
Drifting including spill spoon sampling @ 2.0 feat comissions sampling	e m 10'		•
(SPT, Pensironustar, Visual Classification Included)			
Continuous Sampling			
Normal Hours	100.0 Fest	\$ 24.75 /Foot	\$2,475.0
Restricted Hours (6 Hrs)	0.0 Feet	\$ 29.70 /Foot	\$0.0
Night Hours (8 Hrs)	0.0 Feet	\$ 29.70 /Foot	\$0.0
Between 10 and 30 Feet			
Normal Working Hours	0.0 Feet	\$20,00 /Foot	\$0.0
Restricted Hours (6 Hrs)	O.0 Feet	\$25.85 /Foot	\$0.00
Night Work	0.0 Feet	\$24,75 /Foot	\$0.00
Batween 30 and 50 Fest			
Normal Working Hours	0.0 Feet	\$23.10 /Foot	50.0
Restricted Hours (6 Hrs)	0.0 Feet	\$29.70 /Foot	S0.00
Night Work	0.0 Fast	\$28.60 /Foot	50,00
Between 50 and 75 Feet			
Normal Working Hours	0.0 Feet	\$25,85 /Foot	\$0.02
Restricted Hours (6 Hrs)	0.0 Feet	\$32.45 /Foot	50.00
Night Work	0.0 Feet	\$30,80 /Foot	\$0,00
Structure Borings			
Drilling including split spoon sampling at 2.5' sample interval	to 30!. 5' samola interv	ni tharanftar	
(SPT, Penetrometer, Rimae, Visual Classification Included)			
Between 0 and 30 Fact			
Normal Working Hours	0.0 Feet	\$20.00 /Poot	\$0.02
Restricted Hours (6 His)	0.0 Feet	\$25.85 /Foot	\$0.00
Night Work	0.0 Feet	\$24.75 /Foot	50.00
Between 30 md 50 Feet			
Normal Working Hours	0.0 Feet	\$23.10 /Foot	\$0.02
Restricted Hours (6 Hrs)	0.0 Feet	\$29.70 /Foot	
Night Work	0.0 Feet	\$29,70 /Poot \$28,60 /Font	\$0.00
	U.U. Peet	528.60 (Pont	\$0.00

\$25,85 /Foot

\$32.45 /Foot \$30.80 /Foot

\$27.50 /Foot

\$34.38 /Foot

\$34.10 /Foot

\$0,00

\$0.02

\$0.00

00.02

\$0.02

\$0.00

\$0.00

\$0.00

\$0.00

Between 50 and 75 Feat Normal Working Hours 0.0 Feat Restricted Hours (6 Hrs) 0.0 Feet Night Work 0,0 Feet Between 75 and 100 Feet

Normal Working Hours 0.0 Feet Restricted Hours (6 Hrs) 0.0 Fect Night Work 0.0 Feet Botween 100 and 125 Fest Normal Working Hours

0.0 Feet \$34.10 /Foot Restricted Hours (6 Hirs) 0.0 Feet \$45.35 /Foot Night Work 0.0 Fest \$39.22 /Foot

S:\Netproposals\2007PROP\Augus\\P070814Baker-SleamsRcadBridge\Guppl-1 Proposal\20080311_Saving_P070814_Cost.xts

COST SAVING GEOTECHNICAL ENGINEERING FOR IL ROUTE 25 KANE COUNTY, ILLINOIS FOR BAKER ENGINEERING, INC.

WEI Proposal No. P070814 Date: March 11, 2008

Rock Coring				
Rock Coring Setup and 40' Casing				
Normal Working Hours	0 Each	\$310,00		50.02
Restricted Hours (6 Hrs)	0 Each	\$390.00		\$0.0
Nigut Wark	0 Each	\$385,00	/Each	. \$0.0
Set Casing Below 40				
Normal Working Hours	0.0 Feet	\$10,45		\$0.0
Restricted Hours (6 Hrs)	0.0 Feet	S13.20		\$0.0
Night Work	0.0 Fect	\$13.20	/Foot	\$0.0
Rock Coring				
Normal Working Hours	0.0 Feet	\$49.50		50,0
Restricted Hours (6 Hrs)	0.0 Feet	\$62.70	/Feot	\$0.0
Night Work	0.0 Feet	\$60.50	/Foot	0.02
Wooden Cars Boxes	0 No.	\$49.50	/Each	\$0.0
Cardboard Boxes				No Charge
Borchola Abandonment and Surface Restoration				•
Bering Backfilling with Lean Grout for Structure E				
Normal Working Hours	0.0 Feet	\$7.15		\$0.00
Restricted Hours (6 Hrs)	0.0 Feet	\$8,25		\$0.0
Night Work	0.0 Feet	\$8,25	/Foot	\$0,0
Pavement Patching				
Asphalt	3 Bags	\$15.00	/Bag	\$45.0
Concrete	0 Bags	\$16.50	/Bag	\$0.00
Patching of Full Deck Coring	0 No.	\$275.00	/Each	\$0,0
Soil Cutting Removal	. 0 Hrz.	\$275.00	/Hour	\$0.0
Spacialized Texting				
Pressuremeter Testing				
Pressuremeter Testing	0 Day	\$4,000.00	/Day	20.00
Modify, Equip and mobilize/demobilize, support	ATV			
to haul pressure meter equipment into river		Lu	ap Sam	\$0.00
Dilatometer Testing	0.0 Feet	\$13.20	Foot	\$0.00
Plezametric Cone Penetrameter				
Mobilization (Truck Mounted CPT)	0 No.	SL,100.00	/Each	\$0.00
CPTU	0.0 Feet	\$12.10		\$0.80
Seismic Wave Measurement	0 No.	\$110.00		\$0,00
Pore Pressure Dissipation Test	0 No.	\$330,00		0.02
The pressuremeter, ellistometer, and CPT tests will be bi provided for estimating purposes only.	lled at cast – tha above w	il prices are		
Traffle Control				
Shoulder Closure (1/2 mile)			.	
Daytime .	0 Each	\$ 660.00		\$0.00
Night time	0 Each	\$ 770.00	/Ench	\$0.00
Lano Closure (1 lane) (1/2 mile)				
Daytime	0 Each	\$1,155.00		\$0.04
Night time	0 Ench	\$1,320.00	/Each	0.02
Other Probable Project Related Cost				
-				
Other Probable Project Related Cost Boring Location Accessibility Private Utility Determination				
Other Probable Project Related Cost Boring Location Accessibility Private Utility Determination Tree Clearance				\$0.00
Other Probable Project Related Cost Boring Location Accessibility Private Utility Determination				At Cor \$0.00 At Cor

\$2,850.00 Cost Estimate for Field Investigations

ŀ

2

.

S:Weiproposals/2007PROP/August/P070814Baker-SteamsRoadEndge/Suppl-1 Proposal20080311_Saving_P070814_Cost.xis

٠

COST SAVING GEOTECHNICAL ENGINEERING FOR IL ROUTE 25 KANE COUNTY, ILLINOIS FOR BAKER ENGINEERING, INC.

	Units	Unit P	rice	Ext	ended Cost
Permitting and Coordination of Field Activities (JULIE)					
Project Manager	1 Hrs.	\$ 123	.88 /Hour	5	123.88
Project Engineer	2 Hrs.	S 82	.90 /Hour	\$	165.80
Drilling and Sampling Supervision	•				
Field Engineer including travel time	8 Hrs.	S 65	.38 /Hour	s	523,04
Support Vehicle including tolls	1 Days	S 44	.00 /Day	\$	44.00
- · · · · ·	Cost Estimate f	or Field S	lupervision		\$856,72

ANS ANALY MABOR	MORVITESTING	ORYTESTING UP THE REAL			
	Units	Unit Prica	Extended Cost		
Natural Moisture Content Determination	50 No.	\$5.75 /Test	\$287,50		
Atterberg Limit Testing	0 No.	\$60.00 /Test	\$0,00		
Specific Gravity Determination	0 No.	\$48.50 /Test	\$0.00		
Particle Size Analysis					
Univashed Slove Analysis	0 No.	\$52.00 /Test	\$0.00		
Washed Stova Analysis	0 No.	\$60.00 /Test	\$0,02		
Combined Slove and Hydroweter Analysis	2 No.	\$97.50 /Test	\$195,00		
· · ·	Cost Estimate for	Laboratory Testing	\$482.50		

HILDER HILLER STATE AND A S

Propare boring logs, soil profilas, and data reduction, Perform Engineering Analyses, Propare Geotechnical Report. Principal-in-Charge QA/QC Reviewer \$ 142.45 /Hour \$ \$ 142.45 /Hour \$ l Hrs. 2 Hrs. 142,45 284.90 Senior Engineer/Project Manager 4 Hrs. \$ 122.05 /Hour \$ 488.20 Project Engineer 8 Hrs. \$ 78.15 /Hour \$ 625,20 Staff/Field Engineer Assistant/Field Engineer \$ 68.66 /Hour \$ \$ 50.71 /Hour \$ 1,098,56 16 Hrs. 16 Hrs. 811.36 Project Administrative Assistant 1 Hirs. 5 58.12 /Hour S 58.12 Report Reproduction Lump Sum \$. Review existing data, plans and specifications: 0 Hirs. Senior Engineer/Project Manager Project Engineer S 122.05 /Hour S S 78.15 /Hour S -0 Hrs. . Cost Estimate for Engineering \$ 3,508.79 .

S:Netproposals/2007PROP/AugustiP070814Baker-SteamsRoadBridge/Suppl-1 Proposal/20080311_Saving_P070814_Cost.xis

1. 10.000

,

OLAL COST BST MATE SU 698 01

WEI Proposal No. P070814

Date: March 11, 2008