



November 5, 2014

W140034.00

Mr. David S. Gulgowski, P.E.  
Managing Engineer – Site Development  
Milwaukee County Department of Administration Services  
2711 W. Wells Street, Room 238  
Milwaukee, Wisconsin 53208

**Fee Increase Request  
Menomonee River Parkway Reconstruction - Burleigh St. to Congress St.  
Milwaukee County Project #P280-13626**

Dear Mr. Gulgowski:

Per your request and in agreement with Section 3.4.1 of the Consultant Agreement, GAI Consultants is pleased to provide this proposal to amend our services to Milwaukee County (Client). An executed copy of this proposal will amend our Agreement for the above referenced project dated May 2, 2014.

This proposal is for professional services for the reconstruction of the Menomonee River Parkway from Church Street to Congress Street. This proposal is subject to the County's Consultant Agreement for Professional Services which were attached to our original proposal.

For this project GAI Consultants proposes to provide the following additional Basic Services:

**Archeological Survey**

An initial screening by the DNR identified an archeological resource that must be cleared by both the Wisconsin Historical Society and the Department of Natural Resources. Performing a Phase 1 and Phase 2 was not included in our initial proposal. A proposal was requested from Mark Dudzik of the DNR to perform a Phase 1 and Phase 2. This includes field work and a report and is required to obtain a DNR permit. This field work and report must be completed by an archeologist.

**The fee will be based on the invoice amount and is expected to be \$4,122**

**Manhole and Catch Basin Survey**

Per the Request for Proposal (RFP), Milwaukee County was to provide the initial survey for the design. An inventory of manhole and catch basin depths was not provided as part of the original survey. Due to work load of the County surveyors, Milwaukee County requested that GAI pick up the required depths of structures. These depths were required to final the design and include in the improvements.

Senior Survey 2:	18 hours @ \$75.00/hr.	\$1350.00
Surveyor 1:	18 hours @ \$69.00/hr.	\$1,242.00
Intern:	7 hours @ 78.00/hr.	\$546.00
Project Manager:	1 hour @ \$136.00/hr.	\$136.00

**Total Fee for Manhole and Catch Basin Survey: \$3,346**

**Green Infrastructure Grant Coordination**

Per the original proposal the project included minor coordination time with MMSD and DNR for Storm Water Quality Improvements and the respective Green Infrastructure. In order to secure additional funding for the project including Stewardship Grants from Wisconsin DNR and Green Infrastructure Grants from MMSD the County was required to provide detailed applications and supporting documentation of these improvements. GAI provided application reviews and assistance, additional meetings (2) and provided detailed modeling of the rain gardens and biofiltration basins, including Hydrology, Hydraulic and SLAMM modeling.

Project Engineer:	12 hours @ \$78/hr.	\$936.00
Project Manager:	12 hours @ \$136/hr.	\$1,632.00
Principal-In-Charge:	2 hours @ \$164/hr.	\$328.00
<b>Total Fee for Green Infrastructure:</b>		<b>\$2896</b>

**Rain Garden Design**

The original proposal anticipated approximately 8 rain gardens and biofiltration basins, which included the grading and landscaping design for each individual item. As the project proceeded additional green infrastructure was added, in part due to seek additional funding as mentioned above, and for possible funding assistance from the city of Milwaukee and Wauwatosa. The final design included 16 rain gardens and biofiltration basins, each requiring individual grading, landscaping and planting plans.

Landscape Architect Lead:	2 hours @\$150/hr.	\$300.00
Landscape Architect:	20 hours @\$110/hr.	\$2,200.00
Project Engineer:	16 hours @\$78/hr.	\$1,248.00
<b>Total Fee for Rain Garden Design:</b>		<b>\$3,748</b>

**Archeological Permits and Coordination**

As required as part of the clearing of the potential archeological sources identified there are multiple permit applications and submittals to the State Historical Society and DNR, with separate permits for the potential burial mound assessment. GAI will perform these services, including the coordination of the Archeologist.

Project Manager:	18 hours @ \$136/hr.	\$2,448.00
Principal-In-Charge:	2 hours @ \$164/hr.	\$328.00
<b>Total Fee for Archeological Permits and Coordination:</b>		<b>\$2,776</b>

### **Storm Sewer Analysis**

With the construction season winding down, there was consideration of beginning the construction still in 2014, however only requiring the storm sewer to be completed. This was requested by the County to see what the costs would be just to construct the storm sewer outside the roadway, what could be done knowing there were DNR permitting implications, and what the cost would be for various options. This analysis was critical as it might have impacted the rejection of a \$200,000 credit. Time also included looking at various elevations to see what could be constructed without causing stormwater back-ups or additional work in the field.

Project Engineer:	19 hours @\$78	\$1,482.00
Project Manager:	2 hours @\$136	\$272.00
<b>Total Fee for Storm Sewer Analysis:</b>		<b>\$1,754</b>

### **Floodplain Analysis and ER Analysis**

As part of the DNR Chapter 30 permitting review the DNR required additional floodplain analysis including surveyed elevations of the floodplain, a City of Wauwatosa floodplain permit, additional FEMA floodplain mapping and the Environmental Resource Analysis. The original anticipation for the CH 30 permitting, based upon meetings with the DNR on site did not require floodplain analysis, nor did the City require a floodplain permit or any mention of the ER Analysis. In order to obtain the CH 30 permit and proceed with the project, these items, including meetings with the City were required.

CADD Technician	20 hours @\$65	\$1,300.00
Project Engineer	17 hours @\$78	\$1,326.00
Project Manager	4 hours @ \$136	\$544.00
Landscape Architect	4 hours @\$81	\$324.00
<b>Total Fee for Floodplain Analysis</b>		<b>\$3,494</b>

### **MMSD Manhole Reconstructs**

AS part of the review of plans MMSD is requiring 4 manholes to be reviewed to see if it is cost prohibitive to reconstruct these manholes and structures to match the new roadway elevation after construction. The original plan includes costs to adjust manholes to finished grade. However, there are 4 structures, determined after design and during the MMSD review process, that adjustments will not be feasible. GAI worked with the Contractor and MMSD, including site visits, meetings, coordination with the contractor and detail drafting to determine that it would be more cost effective to eliminate 2 of the MMSD 4 manholes adjustments by adjusting the road and adding additional storm sewer at Keefe Avenue.

Project Engineer	18 hours @\$78	\$1,404.00
Project Manager	12 hours @\$136	\$1,632.00
CADD Technician	18 hours @\$65	\$1,170.00
<b>Total Fee for Manhole Reconstructs</b>		<b>\$4,206</b>

**Total Fee Increase:**

**\$26,342**

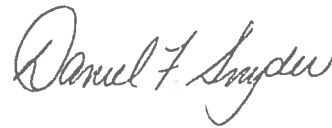
Thank you for the opportunity to submit this GAI proposal and we look forward to finalizing the project and seeing through construction.

Sincerely,

**GAI Consultants, Inc.**



Troy T. Hartjes, P.E.  
Project Manager



Daniel F. Snyder, P.E.  
Senior Director

DFS/pat

Hourly Rate	\$164	\$136	\$136	\$81	\$114	\$81	\$66	\$65	\$81	\$75	\$110	\$50	\$150	\$110	\$70	\$155	\$100	\$4	\$143	\$48	\$35	\$115	\$65	TOTAL	
	Principal Charge	Project Technical	Project Assistant/CA-Dation PE	Bio-Ped Planning/LED AP	Design - Carter, PE	Design - Garrison, PE	GIS - Penning	CADD Technician	Stormwater Modeling and Erosion	Supplemental Field Survey/Photore	QA/QC	Contract Administration	General	Project Technical Lead	Landscape Architect	Landscape Architect	Site Plan, P.L.A.	Landscape Architect	Stormwater Expeditors	Storm/TV/Structure Evaluation - Mac	Multimedia Production	Lighting/Electrical Design	Lighting/Electrical Design	Technician	
Phase 2 Contract/Docs/Design																									
Burleigh to Church																									
CAD/Survey Review and Surface Modeling		4																							
Preliminary & Final Drafting						16		24		24														68	
Utility (TV/Cable/Gas) Coordination						12		262																262	
Roadway: Horiz., vert., X-sections						80		20																12	
Roadway: Calming, Int., Pinch Points/Rain Gardens						24																		100	
Landscape Design at Bioswale/RainGardens/Swales				16																				64	
Public Coordination Assistance	4	4				4																		231	
Path Design																								56	
Pavement Marking																								60	
Construction Staging & Traffic Control																								12	
Storm water Grading/Bioswales/Grass Swale Design						20			20															12	
Stormwater Quality/Modeling Design						16																		40	
Storm Sewer Design/Layout						40																		16	
Lighting (electrical and fixture; no illumination study)						24																		96	
Cost estimates/Quantities						20																		150	
Erosion Control/Storm Water Management Plan						32																		24	
Specifications						48																		96	
Permit Submittals (NOI/WRAPP, CH, 30 outlet, MMMSD)		48				48																		150	
Quality Control	8		60																					24	
Project Management including Subc. Coordination	20	50																						20	
Client Meetings (bi-weekly, 12 weeks)	24	32		2		16																		32	
City/MMMSD/DNR Coordination and MTGs for Stm Wat	8	30		12		20																		200	
Site Visits (During Design)	4	12		10		16																		108	
Construction observation and assist.																								70	
Storm Televising (3,800' Estimated)																								42	
Geotechnical (None-completed on phase I)																								3856	
Bidding	2					4																		6	
Phase 2 - Hours	68	182	60	120	64	392	28	306	20	24	40		3	80	168	44		3,800	112	40	20	112	38	5,721	
Phase 2 - Fee	\$13,152	\$24,752	\$8,160	\$9,720	\$7,296	\$31,752	\$1,848	\$19,890	\$1,620	\$1,800	\$4,400		\$450	\$8,800	\$11,760	\$6,820		\$14,516	\$15,997	\$1,920	\$700	\$12,880	\$2,470	\$398,709	
Phase 2 Expenses				\$7,118				\$500				\$200				\$500									\$4,018
Phase 2 - Fee and Expense	\$13,152	\$24,752	\$8,160	#####	\$7,296	\$31,752	\$1,848	\$20,390	\$1,620	\$1,800	\$4,400	\$200	\$450	\$8,800	\$11,760	\$7,320		\$14,516	\$15,997	\$1,920	\$700	\$12,880	\$2,470	\$202,721	
Phase 2 - DBE total and % Participation													0.22%	4.34%	5.80%	3.61%		7%	7.89%	0.95%				29.97%	

**\* Milwaukee County Certified DBE includes total contract**

Costs are through bidding, and include Storm Televising; Construction Observation Costs and record drawings are under separate section.

Bi-Weekly meetings costs include time for weekly meetings over the last 4 weeks prior to bidding. Meetings estimated at 2 hours each.

Assumes 10 rain gardens and 2 biofiltration basins per concept.

Permits include NOI, CH, 30 for stream/outfall GP, Wetland disturbance GP, MMMSD water course connection and MH adjustments and City of Wauwatosa Floodplain.

Path design assumes no boardwalk or retaining wall required

Environmental permits assume no mitigation, floodplain modeling or shoreline rezoning.

Fees are based upon 2014 hourly rates and are up to bidding.

Bidding costs includes questions during bidding, but no evaluations or adden

Reimbursables include 6 permits at \$303, 1 permit at \$500, 30 day notice ad i

**Phase II**  
 Total Contract with CRS/Televising \$227,889  
 Total Phase I and II DBE (Incl Ph I to date) 25.48%  
 26.77%



