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for All of Us®

August 4, 2015

RE: Cross City Trail – Upper Route Phase 3  
Update  
Duluth, Minn.  
SEH No. DULUT 109680

Mr. Patrick Loomis, PE  
City of Duluth Engineering  
411 West 1<sup>st</sup> Street  
Duluth, MN 55802

Dear Mr. Loomis:

As you are aware, SEH is under contract for \$706,000 to complete the planning and feasibility study for the entire Cross City Trail corridor along with completing final design for the first two sections and construction administration assistance for the first section.

In our letter dated January 30, 2015, we requested an amendment of \$97,000 to complete the project management and meetings, preliminary and final design of the trail and two bridges, right-of-way and permitting, and a project memorandum for Phase 4 from Greene Street to the Zoo. In that request we also included budgetary items for Construction Administration assistance for Phase 4 along with preliminary meetings and alternative analysis for Phase 3 from the Zoo to Spirit Mountain totaling \$21,000. Although a portion of the budgetary items were completed, the majority of the \$21,000 was spent on additional work items outside of our original scope. The tasks that were completed outside of the scope of our work from the January 30<sup>th</sup> letter included:

- **Bridge at Greene Street** – The preliminary borings indicated a standard spread footing design would not be adequate. Additional borings and analysis was performed and additional design for pile-supported abutments was completed.
- **St. Louis County Tax Forfeit Property** – During design, it was found a portion of the old DWP right-of-way was not owned by the City of Duluth. The land was tax forfeit and an easement had to be acquired through the County. We assisted the County in completing the applications, drawings, and legal descriptions for this process. The City of Duluth now retains an easement over this property.
- **Trail Easement** – The City had previously informed us they owned a 100' wide right-of-way which was the old DWP right-of-way. After reviewing the documentation provided to us, it was found that the City owned a series of lots and blocks that were not a continuous 100' swath. We completed field and office work to create the 100' wide trail easement through the property the City owned which was suitable for public recording.
- **USACE Permit** – In our original work plan, we had assumed the new trail bridge would be permitted as a transportation project and qualify for a general permit with the USACE. After reviewing our permit application, the USACE determined the project would require a general permit. We amended the application and provided the additional information requested to help secure the permit.
- **MnDOT Plan Review** – We were given direction from the State Aid review on how to set up and organize the final estimated quantities, tabulations, and engineer's estimate for the participating and non-participating items. After being approved at the local level, (during the federal review) it was decided to change how these items were organized. This required us to amend the EQ sheet, all tabulation sheets, and the engineer's estimate.

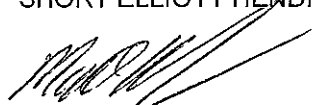
- **Environmental Meetings** – During our design stage, the City requested to work with Barr Engineering to help identify the known contaminated areas on the trail corridor and how they would be impacted by the project. We worked with Barr, City of Duluth staff, and the MPCA to identify and ultimately get approval to construct the trail through potentially contaminated areas.

At this time, we are not requesting any additional budget for our contract amount of \$706,000. The additional work that was completed was done so using the \$21,000 from the last contract amendment. The City has requested a proposal to complete the rest of the work of design through construction for all sections of the project which will be sent in a separate letter.

Please review this letter and contact me with any questions.

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.



Matt Bolf, PE  
Project Manager

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ur phase 3 task explanation.docx



Project Name: Cross City Trail Upper Route DWP Zoo to Spirit Mountain  
 SEH Project No: DULUT 109680  
 Date: July 21, 2015  
 Estimator: John Krysiak  
 Description: Preliminary Opinion of Cost

SITE PREPARATION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
CLEAR AND GRUB	ACRE	3.46	\$ 5,000.00	\$ 17,275.02
SILT FENCE	LIN FT	2000	\$ 3.00	\$ 6,000.00
WASHOUT GRADING	LUMP SUM	1	\$ 50,000.00	\$ 50,000.00
TRAIL	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
COMMON EXCAVATION	CU YD	1974	\$ 18.00	\$ 35,533.05
SUBGRADE EXCAVATION	CU YD	197	\$ 10.00	\$ 1,974.06
COMMON BORROW	CU YD	1500	\$ 12.00	\$ 18,000.00
BITUMINOUS WEAR	TON	1254	\$ 100.00	\$ 125,416.67
AGGREGATE BASE (CL 5)	CU YD	1394	\$ 31.00	\$ 43,199.07
PEDESTRIAN RAMP	EACH	2	\$ 2,500.00	\$ 5,000.00
PEDESTRIAN BRIDGE 1	EACH	1	\$ 280,000.00	\$ 280,000.00
PEDESTRIAN BRIDGE 2	EACH	1	\$ 420,000.00	\$ 420,000.00
PEDESTRIAN BRIDGE 2 RETAINING WALLS	SQ FT	800	\$ 55.00	\$ 44,000.00
PEDESTRIAN BRIDGE 3	EACH	1	\$ 560,000.00	\$ 560,000.00
PEDESTRIAN BRIDGE 3 EXCAVATION/STABILIZATION	CU YD	25000	\$ 10.00	\$ 250,000.00
BOX CULVERT EXTENSION	EACH	1	\$ 20,000.00	\$ 20,000.00
SPUR TO MUNGER TRAIL	LUMP SUM	1	\$ 24,000.00	\$ 24,000.00
STORM SEWER COLLECTION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
15" REINFORCED CONC. PIPE	LIN FT	100	\$ 50.00	\$ 5,000.00
36" REINFORCED CONC. PIPE	LIN FT	250	\$ 150.00	\$ 37,500.00
15" RCP APRON	UNIT	6	\$ 650.00	\$ 3,900.00
36" RCP APRON	UNIT	5	\$ 1,500.00	\$ 7,500.00
RIP RAP CLASS III	CU YD	107	\$ 65.00	\$ 6,933.33
RESTORATION	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
TOPSOIL BORROW (3" DEPTH)	CU YD	2787	\$ 20.00	\$ 55,740.74
FENCE	LIN FT	900	\$ 50.00	\$ 45,000.00
SEED AND MULCH	ACRE	7	\$ 450.00	\$ 3,109.50
EROSION CONTROL BLANKET	SQ YD	12222	\$ 2.50	\$ 30,555.56
STREET TREES	EACH	25	\$ 450.00	\$ 11,250.00
RIGHT OF WAY	UNIT	EST. QUANTITY	UNIT PRICE	AMOUNT
SPIRIT VALLEY LAND CO. EASEMENT ACQUISITION	LUMP SUM	1	\$ 5,000.00	\$ 5,000.00
85TH AVE. WEST/DWP TRAIL DIVERSION	LUMP SUM	1	\$ 30,000.00	\$ 30,000.00
<b>SUB TOTAL</b>				<b>\$ 2,141,887.01</b>
TRAFFIC CONTROL			1%	\$ 21,419.00
MOBILIZATION			15%	\$ 321,283.00
EROSION CONTROL			2%	\$ 42,838.00
MISCELLANEOUS CONSTRUCTION			5%	\$ 107,094.00
CONTINGENCIES			15%	\$ 321,283.00
<b>TOTAL CONSTRUCTION</b>				<b>\$ 2,955,804.01</b>

**ASSUMPTIONS:**

Length = 7525'

New Bridge 1 = 100' x 12'

New Bridge 2 = 150' x 12'

New Bridge 3 = 200' x 12'

Spur Length = 230'

No additional cost included for moving material from east side of Knowlton Creek to west side of creek