EXHIBIT A



21 West Superior Street, Suite 500 Duluth, Minnesota 55802 218 727-8446 Fax 218 727-8456 www.LHBcorp.com

February 13, 2018

Duncan C. Schwensohn, PE Senior Engineer City of Duluth 411 West First Street, Room 211

SUPERIOR STREET RECONSTRUCTION LAKE AVENUE – 2ND AVENUE EAST (RE-DESIGN) CITY PROJECT 1507TR CITY CONTRACT NO. 22759

The City is requesting revisions to the current project design between Lake Avenue and 2nd Avenue East to shorten the left turn lane at Lake Avenue and eliminate the center left turn lane between 1st Avenue East and 2nd Avenue East.

The proposed changes are intended to increase the pedestrian and bump out spaces along these blocks. The elimination of the 11-ft turn lane and center left turn lane from the roadway will add approximately 5.5-ft of additional walk width at each block face.

The current design included traffic study (SRF Report No. 013-8265, dated December 2, 2013) and design recommendations as follows (in part):

- At Lake Avenue: The westbound queuing issue identified under both existing and year 2017 p.m. peak hour conditions at the Superior Street/Lake Avenue intersection is expected to continue under year 2035 conditions. The westbound queue is expected to extend approximately 500 feet, which will impact all approaches of the 1st Avenue E intersection, and impede overall intersection operations.
- At Lake Avenue: It is recommended that the westbound left-turn phase be modified to a lagging phase at the Superior Street/Lake Avenue intersection.
 - O A minimum of 100 feet of additional westbound left-turn lane storage is necessary to allow for efficient traffic operations. However, extending the westbound left-turn lane the entire length of the block would ensure that the westbound left-turning queue would not impede westbound through and rightturning vehicles at the Superior Street/Lake Avenue intersection.

The current design extends the turn lane the length of the block between Lake Avenue and 1st Avenue East. Turn lanes and center left turn lanes between 1st Avenue East and 2nd Avenue East are provided for intersection and operational symmetry and based on current use and operation

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Minneapolis, MN

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along the block, including the Hart Ramp, and which are expected to continue. The proposed changes will benefit pedestrian activities and intersection crossing length at the affected blocks however they are also likely to cause operational issues during peak hours or higher parking demand at the Hart Ramp including back-ups in westbound and eastbound traffic along Superior Street and at the intersections.

The proposed curb revisions will require the following primary changes to the plan:

- Revisions and re-design to project curb lines/grades and surface grades along the street, parking lanes, and amenity zones to ensure connections to building entries.
- Revisions to storm sewer to the new curb locations.
- Revisions to other project utilities including hot water, steam, and water dur to the storm sewer adjustments.
- Re-design of intersection grading and ADA pedestrian ramps.
- Revisions to vault plans.
- Revisions to the proposed signal designs and APA push button locations.
- Revisions to the project lighting, handholes and conduit routing.
- Revisions to the streetscape plans to adjust streetscape amenities and special concrete layout.
- Revisions to the project SWPPP.
- Revisions to the project typical sections.
- Revisions to the project cross sections.
- Revisions to project tabulation charts and quantities to capture the changes.
- Revisions to other sheets to update the revised layout background for overall plan completeness.
- Updates and revisions to the City's One Office system for quantity tracking.
- Change order preparation and management to re-issue the affected sheets.

A detailed fee estimate is attached for your review.

We appreciate the opportunity to continue providing services for this project. Upon review if you have any questions concerning our proposal or would like to meet to review please do not hesitate to call.

LHB

Brad Scott, P.E. Project Manager

Attachments: Fee Estimate Worksheet

AD SAIT

c: LHB File # 150714

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COST PROPOSAL

Project Name Superior Street Reconstruction Client City of Duluth Preparer LHB/SRF

LHB Project Number 150714 City Project No. 1507 Date 2/2/2018

Admin Project Project Project Project Project Project Civil Landscape Lead Civil Admin Project Landscape Landscape Sr. Lighting Lighting Lighting Roadway Sr. Traffic Traffic TC Traffic Phasing/ Manager Collection Asst. Total Architect Asst. Architect Architect Technician Manager Technician Engineer Principal Engineer Engineer Engineer Engineer Designer Technician Engineer Engineer Technician Engineer Engineer Engineer Labor Work Tom Roger Curt Joe Brad Nathan Megan Dan Heidi Barry Brent Nick Luke Clay Bri Plan Description Shaw Warner Wold Wieseler McHenry Richardson Prusak Erpelding Bayer Betts Sachi Hendrickson Sohn Costs Litman Scott Bruno Goplin Bringman Jasperson lames 218 \$ 183 \$ 165 S 150 S 140 S 97 S 112 S Task 125 \$ 85 S 111 \$ 100 S 75 S 65 S 221 \$ 114 \$ 89 S 110 S 133 \$ 83 S 86 \$ 155 S 115 \$ 89 S 169 S 96 Project Management 2 Public Involvement & Coord. Mtgs Initial Site Visits and Consultations Reconnaissance and Field Surveys Traffic Signal Design 30% Design 0 \$ 147,480 Final Design 144 175 227 327 Lighting / Electrical Design Streetscape Construction Sequencing, Staging 10 & Traffic Control 11 District Hot Water 12 Cost Estimating 13 Bidding Assistance 0 \$ 147,480 TOTALS 13 144 127 175 227 327 SUMMARY OTHER DIRECT COSTS (ODC) Labor Cost S 147,480 Description Other Direct Costs S Travel (mileage at \$0.575/mile) Total Est Cost \$ 147,480 Mail / Delivery Supplies/ Printing at Cost Survey Equipment Total ODC

Total Est Costs \$ 147,480

WORK PLAN & SUMMARY OF HOURS BY TASK





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WORK PLAN & SUMMARY OF HOURS BY TASK





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