



June 24, 2021

City of Duluth
Attn: Mr. Aaron Soderlund, P.E.
411 West First Street, RM 211
Duluth, MN 55802

RE: Amendment Proposal for Design Services for the Middle Booster Station
City of Duluth Project Number: 1779
MSA Project Number: P00616140.0

Dear Mr. Soderlund:

MSA Professional Services, Inc. (MSA) is pleased to submit this Amendment proposal for additional design services for the proposed improvement to the Middle Booster Station. This effort will focus on additional scope add to the project. Additional work tasks relate to the removal and replacement of the building and the replacement of the under floor plumbing drain system, and additional process mechanical detailing to connect to the existing underfloor process water piping in the Middle Booster Station.

SCOPED A/E SERVICES TO BE PROVIDED BY MSA:

- Additional site civil design services to replace the existing sanitary lateral and add paved driveway surface.
- Additional Structural and Architectural services to design and detail the removal and replacement of the building floor.
- Plumbing design to replace the drain and vent plumbing under the building floor.
- Additional Process Mechanical service to design and detail the underfloor process piping required when the building floor was removed.
- Deploy pressure data recorders in the field for additional calibration of the surge and transient model.

A/E DELIVERABLES:

- Additional Drawing and details describing additional project work.

Attached is a schedule of estimated time and expenses for the proposed services described above. The total estimated fee is \$10,840 time and materials (T&M) for the design services. Our proposal to proceed is based on time and material during the design phase of the project.

We look forward to working with you to complete the design of the Middle Booster Station improvements. If you have any questions about our proposal, please call me at (608) 355-8868 or my cell phone at (608) 963-6527.

Sincerely,
MSA Professional Services, Inc.

A handwritten signature in black ink that reads "Scott R. Chilson".

Scott R. Chilson, P.E.
Senior Project Engineer

SRC:

Enc.

332 W. Superior Street
Suite 600
Duluth, MN 55802

P (218) 722-3915
TF (800) 777-7380
F (218) 722-4548

www.msa-ps.com

© 2021 MSA Professional Services

G:\00\00616\00616140\Contract\Amendment No.2\616140 MBS Amendment No.2 Proposal Ltr 2020-12-04.docx

Cost Proposal

City of Duluth - Middle Booster Station Improvements Design Amendment No.2

RFP-19-99446 / City Project Number 1779

Phase		Project Manager/ Process Mechanical/Electrical Chilson	Client Liason/ Field Services Lockett	Hydraulic Engineer Harnois	Process Mech. Technician Prybylski	Electrical Designer Lutz	Struct./Arch./Plumbing/ HVAC Engineer Wastlund	Arch./Struct. Designer/ Technician Phipps	Admin Marcott	TOTAL HOURS	LABOR COST	DIRECT EXPENSE	TOTAL COST
	Hourly Rate	\$190.00	\$105.00	\$150.00	\$100.00	\$110.00	\$145.00	\$80.00	\$75.00				
Phase No.	Deliverable	Task No.	Estimated Hours	Estimated Hours	Estimated Hours	Estimated Hours	Estimated Hours	Estimated Hours	Estimated Hours				
1600	Middle Pressure Zone Field Work		6	9	0	0	0	0	0	15	\$ 2,085	\$ 475.00	\$ 2,085.00
	Deploy Pressure Recorders	1602	4	4						8	\$ 1,180	\$ -	\$ 1,180.00
	Download of the Recorders	1604	4	4						4	\$ 420	\$ -	\$ 420.00
	Data Processing	1606	2	1						3	\$ 485	\$ -	\$ 485.00
1700	MBS Design Enhancements		0	0	0	0	0	0	0	0	\$ 8,755	\$ -	\$ 8,755.00
	Removal and Replacement of the Building Floor	1702								0	\$ -	\$ -	\$ -
	Archetectural and Structural Design and Detailing						8	8	1	17	\$ 1,875	\$ -	\$ 1,875.00
	Design of new underfloor drain and vent plumbing system		1				16	16	3	36	\$ 4,015	\$ -	\$ 4,015.00
	Process Mechanical detailing for under floor process piping and connections.		2	4	8					14	\$ 1,600	\$ -	\$ 1,600.00
	Additional Site Civil Design	1704								0	\$ -	\$ -	\$ -
	Provide specs and detail for paved driveway		1		2				1	4	\$ 465	\$ -	\$ 465.00
	Design replacemete sanitary lateral		1	2	4					7	\$ 800	\$ -	\$ 800.00
	GRAND TOTAL		8	9	4	0	0	0	0	21	\$ 14,705	\$ 475.00	\$ 10,840.00

Notes: * Non-Billable Expenses is time and expenses that will not be charged or paid by the City of Duluth. MSA is a local full service consultant committed to provides expert staff with skills specific to the project needs.

The above identifies labor hours and associated design fee for professional services. Hourly personnel rates will remain in effect until project completion or 12/31/21.