

June 20, 2024

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

Re: Proposal for Construction Related Engineering Services for the Construction of Woodland Booster Station Improvements

Dear Mr. Soderlund:

MSA Professional Services, Inc. (MSA) is pleased to submit this proposal for construction-related services for the proposed Woodland Booster Station Improvements. The MSA team will provide services limited to technical support during the construction phase.

SCOPED A/E SERVICES TO BE PROVIDED BY MSA:

- Attend Pre-Construction meeting.
- Provide up to 216 hours to review Shop Drawings. A single review of each submitted shop drawing is included within this scope of services. MSA will require Contractor to provide statement of compliance with BABA or declaration of De Minimus status for materials and equipment. MSA will not validate or investigate product compliance above or beyond certification from Contractor. Compliance of the materials is the responsibility of the contractor.
- Coordinate/respond to contractor questions. Respond to up to four (4) RFI/CB in 2024, up to four (4) RFI/CB in 2025, and up to two (2) RFI/CB in 2026.
- Provide up to 69 hours of assistance for the contractor with construction staking and layout in 2024. Provide 19 hours of as-built surveying in 2025. Staking will be placed once, as requested by the contractor.
- Provide up to 300 hours of resident project representative services in 2024; Provide up to 480 hours of resident project representative services in 2025.
- Provide up to 120 hours of resident project representative services in 2026; RPR services are further described in the attached.
- Provide review of up to six (6) contractor pay applications in 2024, twelve (12) contractor pay applications in 2025, and up to two (2) in 2026. MSA will require BABA Compliance Certification or formal declaration of De Minimus for materials and equipment included in the pay application. MSA will not validate or investigate product compliance. Compliance of the materials is the responsibility of the contractor.
- Prepare and implement up to two (2) Change Orders in 2024, up to two (2) Change Orders in 2024, and up to two (2) in 2026.

- Attend up to four (4) progress meetings in 2024, up to six (6) progress meetings in 2025, and up to one (1) in 2026.
- Witness and document equipment start up and performance tests required to demonstrate compliance with contract documents.
- Submittals. A single review of each submitted O&M submittal drawing is included within this scope of services.
- Conduct final walk-through and develop a punch list.
- Conduct site visits to confirm completion of the punch list.
- Complete an 11-month warranty review. To be scheduled approximately 11 months after the substantial completion of the project.
- Provide up to sixteen (16) hours of operator training and assistance.
- Develop as-built drawings from contractor record drawings depicting the nature of the construction modifications.
- Develop Record Drawing, O&Ms, and close out documents per City standards.
- Provide overall project management.

A/E DELIVERABLES:

- Shop Drawing Reviews
- RPR Field Reports
- Contractor Pay Applications including contractor furnished BABA Certifications and Lien Waivers.
- O&M Reviews
- Punch list.
- Email confirmation that punch list is complete.
- Record drawings conforming to City of Duluth standards.
- O&M conforming to City of Duluth standards
- Close-out Documents conforming to City of Duluth standards.

Attached is a schedule of estimated time and expenses for the proposed services described above assumed to be provided in 2024, 2025, and 2026. The total estimated fee is \$416,321 for time and materials (T&M) for the construction services. Our proposal to proceed is based on time and material during the construction phase of the project.

We look forward to working with you to construct the Woodland 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.



Scott R. Chilson, P.E.
Principal Project Manager



Jason Miller, P.E.
Water Service Line Leader

SRC:

Enc.

Construction Engineering Services Woodland Booster Station - City of Duluth

Phase	2024		2025		2026		Total	
	(Hours)	(Dollars)	(Hours)	(Dollars)	(Hours)	(Dollars)	(Hours)	(Dollars)
100 Contract Administration	57	\$ 12,493	94	\$ 21,943	23	\$ 5,179	174	\$ 39,615.00
200 Project Coordination	349	\$ 56,061	132	\$ 24,296	33	\$ 6,470	514	\$ 86,826.40
300 Field Services	69	\$ 14,242	19	\$ 5,457	0	\$ -	88	\$ 19,698.00
400 Construction Observation	414	\$ 70,210	673	\$ 121,641	162	\$ 32,083	1,249	\$ 223,932.90
500 Close-out Services	0	\$ -	172	\$ 30,884	68	\$ 15,364	240	\$ 46,248.40
900 Non-Reimbursible Expenses	48	\$ -	96	\$ -	48	\$ -	192	\$ -
Annual Totals	937	153,005	1,186	204,220	334	59,096		
Total							2,457	\$ 416,320.70

2024 Construction Engineering Services Woodland Booster Station - City of Duluth																															
		Job Title	PM	Lead RPR	RPR	Project Coordinator	Lead Civil PE	Lead Surveyor	Surveyor	Lead SE	Structural Eng	Lead Architect	Architectural Designer	Lead Plumbing & HVAC Eng	Plumbing & HVAC Eng	Process Mechanical Eng	Process Mechanical Designer	Electrical Designer	Admin.	Principal in Charge	Contract Admin.	TOTAL HOURS	LABOR COST	DIRECT EXPENSE	SUBS	TOTAL ACTUAL COST					
		Resource Last Name	Chilson	Locket	Abrams	Granberg	Loye	Schley	Olson	Gilles	Banko	Szymanski	Good	Wastlund	Eicher	Rockwieler	Yanke	Lutz	Moderson	Miller	Pribbenow										
		2024	\$245.00	\$160.00	\$130.00	\$130.00	\$170.00	\$170.00	\$145.00	\$190.00	\$130.00	\$210.00	\$130.00	\$170.00	\$150.00	\$170.00	\$110.00	\$130.00	\$95.00	\$250.00	\$95.00										
Contract Line No.	Phase No.	Task No.	Description	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours									
0 4	100		Contract Administration	41	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	2	2	57	\$	12,295	\$	198	\$	-	\$	12,493	
		0 10	CA- L Administration	2			2													2	2	8	\$	1,440	\$	35			\$	1,475	
		0 11	CA- L Owner Coorespondance/Meetings	12			2															14	\$	3,200	\$	125			\$	3,325	
		0 12	CA- L Team Coordination/Meetings	24			2															26	\$	6,140	\$	35			\$	6,175	
		0 13	CA- L Invoicing (up to 6 in 2024)	3			6															9	\$	1,515	\$	3			\$	1,518	
		0 14	CA- L Sub-Contractor(s)																												
1 4	200		Project Coordination	59	5	2	75	10	10	18	10	18	10	22	14	22	10	32	32	0	0	0	349	\$	55,535	\$	526	\$	-	\$	56,060.70
		1 10	PC- G Preconstruction Conference Meeting	8	2	2	8															20	\$	3,580	\$	112			\$	3,692	
		1 11	PC- G Value Engineering Workshop(s)	6			4															10	\$	1,990	\$	-			\$	1,990	
		1 12	PC- G Shop Drawings and Submittal Review	16			40	8	8	16	8	16	8	16	8	16	8	24	24			216	\$	32,400	\$	250			\$	32,650	
		1 13	PC- G O&M Review	4			8							4	4	4		6	6			36	\$	5,260	\$	125			\$	5,385	
		1 14	PC- G Pay Request (up to 6 in 2024)	3	3		3															9	\$	1,605	\$	8			\$	1,613	
		1 15	PC- G RFI's(up to 4 in 2024)	8			4	1	1	1	1	1	1	1	1	1	1	1	1			24	\$	4,355	\$	18			\$	4,373	
		1 16	PC- G Construction Bulletins/Proposal Requests/WD/WCD (up to 4 in 2024)	8			4	1	1	1	1	1	1	1	1	1	1	1	1			24	\$	4,355	\$	8			\$	4,363	
		1 17	PC- G Change Orders (up to 1 in 2024)	2			2															4	\$	750	\$	3			\$	753	
		1 18	PC- G Regulator Coordination	2			1															3	\$	620	\$	2			\$	622	
		1 19	PC- G Funding Agency Coordination	2			1															3	\$	620	\$	2			\$	622	
2 4	300		Field Services	3	4	24	0	2	12	24	0	0	0	0	0	0	0	0	0	0	0	69	\$	10,355	\$	3,887	\$	-	\$	14,242	
		1 10	FS- G Staking/Topo/Survey/Boundry	1	4	24		2	12	24												67	\$	9,865	\$	3,837			\$	13,702	
		1 11	FS- G Material Testing	2																		2	\$	490	\$	50			\$	540	
3 4	400		Construction Observiation	72	136	184	10	8	0	0	0	0	0	0	0	0	0	0	4	0	0	414	\$	66,500	\$	3,710	\$	-	\$	70,209.50	
		1 10	CO- G Contractor Coorespondance	24	4	4	4															36	\$	7,560	\$	33			\$	7,593	
		1 11	CO- G Weekly Progress Check-ins (up to 16 virtual in 2024)	8																		8	\$	1,960	\$	-			\$	1,960	
		1 12	CO- G Monthly Progress Meetings (up to 4 in 2024)	16																		16	\$	3,920	\$	23			\$	3,943	
		1 13	CO- G RPR Observation		120	180																300	\$	42,600	\$	3,519			\$	46,119	
		1 14	CO- G Pre-Installation Workshops					8														8	\$	1,360	\$	20			\$	1,380	
		1 15	CO- G Startup Services																			0	\$	-	\$	-			\$	-	
		1 16	CO- G Coordination with Utilities	16	4		4												4			28	\$	5,600	\$	115			\$	5,715	
		1 17	CO- G Coordination with other stakeholders	8	8		2															18	\$	3,500	\$	-			\$	3,500	
4 4	500		Close-out Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$	-	\$	-	\$	-	\$	-	
		1 10	CLO- G Operator Training																			0	\$	-	\$	-			\$	-	
		1 10	CLO- G Punchlist																			0	\$	-	\$	-			\$	-	
		1 10	CLO- G Close Out Documents																			0	\$	-	\$	-			\$	-	
		1 10	CLO- G Record Drawings																			0	\$	-	\$	-			\$	-	
		1 10	CLO- G 11 Month Warranty Review																			0	\$	-	\$	-			\$	-	
9 4	900		Non-Reimbursible Expenses	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	\$	-	\$	-	\$	-	\$	-	
		1 10	TBD- G Travel (up to 4 trips in 2024)	48																		48	\$	11,760	\$	-			\$	-	
GRAND TOTAL				223	145	210	97	20	22	42	10	18	10	22	14	22	10	32	36	0	2	2	937	\$	144,685.00	\$	8,319.70	\$	-	\$	153,004.70

2024 Construction Engineering Services Woodland Booster Station - City of Duluth - Estimated Expenses														
2024														
0% Annual Escalation Percentage														
Unit Cost \$ 0.15 \$ 1.00 \$ 0.72 \$ 5.00 \$ 1.00 \$ 40.00 \$ 0.85 \$ 1.00 \$1.00 \$1.00														
Contract Line No.	Phase No.	Task No.	Description	Units	Each	Each	Miles	Day	Dollars	Hours	Miles	Dollars	Dollars	Dollars
0	4	100				200	100	0	0 \$ 20.00	0	0	\$ -	\$ -	\$ 10 \$ 198
		0	10	CA- L		Administration			10					\$ 10 \$ 35
		0	11	CA- L		Owner Coorespondance/Meetings			10					\$ 125
		0	12	CA- L		Team Coordination/Meetings			20					\$ 35
		0	13	CA- L		Invoicing (up to 6 in 2024)			20					\$ 3
		0	14	CA- L		Sub-Contractor(s)								\$ -
1	4	200				Project Coordination			1750	220	60	0 \$ -	0	\$ - \$ 526
		1	10	PC- G		Preconstruction Conference Meeting		60	60	60				\$ 112
		1	11	PC- G		Value Engineering Workshop(s)								\$ -
		1	12	PC- G		Shop Drawings and Submittal Review		1000	100					\$ 250
		1	13	PC- G		O&M Review		500	50					\$ 125
		1	14	PC- G		Pay Request (up to 6 in 2024)		50						\$ 8
		1	15	PC- G		RFI's(up to 4 in 2024)		50	10					\$ 18
		1	16	PC- G		Construction Bulletins/Proposal Requests/WD/WCD (up to 4 in 2024)		50						\$ 8
		1	17	PC- G		Change Orders (up to 1 in 2024)		20						\$ 3
		1	18	PC- G		Regulator Coordination		10						\$ 2
		1	19	PC- G		Funding Agency Coordination		10						\$ 2
2	4	300				Field Services			10	50	0	3 \$ 50.00	64	600 \$ 100 \$ - \$ 600 \$ 3,887
		1	10	FS- G		Staking/Topo/Survey/Boundry		10	50			3	64	600 \$ 100 \$ 600 \$ 3,837
		1	11	FS- G		Material Testing						50		\$ 50
3	4	400				Construction Observation			270	340	3200	200 \$ 25.00	0	0 \$ - \$ - \$ - \$ 3,710
		1	10	CO- G		Contractor Coorespondance		50				25		\$ 33
		1	11	CO- G		Weekly Progress Check-ins (up to 16 virtual in 2024)								\$ -
		1	12	CO- G		Monthly Progress Meetings (up to 4 in 2024)		20	20					\$ 23
		1	13	CO- G		RPR Observation		100	200	3200	200			\$ 3,519
		1	14	CO- G		Pre-Installation Workshops			20					\$ 20
		1	15	CO- G		Startup Services								\$ -
		1	16	CO- G		Coordination with Utilities		100	100					\$ 115
		1	17	CO- G		Coordination with other stakeholders								\$ -
4	4	500				Close-out Services			0	0	0	0 \$ -	0	0 \$ - \$ - \$ - \$ -
		1	10	CLO- G		Operator Training								\$ -
		1	10	CLO- G		Punchlist								\$ -
		1	10	CLO- G		Close Out Documents								\$ -
		1	10	CLO- G		Record Drawings								\$ -
		1	10	CLO- G		11 Month Warranty Review								\$ -
9	4	900				Non-Reimbursible Expenses			0	0	2,400	0 \$ -	0	0 \$ - \$ - \$ 1,000 \$ -
		1	10	TBD- G		Travel (up to 4 trips in 2024)				2,400				\$ 1,000
								2230	710	5,660	203	\$ 95.00	64	600 \$ 100 \$ - \$ 1,610 \$ 8,320

2025 Construction Engineering Services Woodland Booster Station - City of Duluth																											
		Job Title	PM	Lead RPR	RPR	Project Coordinator	Lead Civil PE	Lead Surveyor	Surveyor	Lead SE	Structural Eng	Lead Architect	Architectural Designer	Lead Plumbing & HVAC Eng	Plumbing & HVAC Eng	Process Mechanical Eng	Process Mechanical Designer	Electrical Designer	Admin.	Principal in Charge	Contract Admin.	TOTAL HOURS	LABOR COST	DIRECT EXPENSE	SUBS	TOTAL ACTUAL COST	
		Resource Last Name	Chilson	Locket	Abrams	Granberg	Loye	Schley	Olson	Gilles	Banko	Bicknell	Good	Wastlund	Eicher	Rockwieler	Yanke	Lutz	Moderson	Miller	Pribbenow						
4% Annual Escalation Percentage		2025	\$260.00	\$170.00	\$140.00	\$140.00	\$180.00	\$180.00	\$160.00	\$200.00	\$140.00	\$220.00	\$140.00	\$180.00	\$160.00	\$180.00	\$120.00	\$140.00	\$100.00	\$260.00	\$100.00						
Contract Line No.	Phase No.	Task No.	Description	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours					
0	4	100	Contract Administration	71	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	94	\$ 21,760	\$ 183	\$ -	\$ 21,943
		0 10	CA- L Administration	1			1														1	1	4	\$ 760	\$ 20	\$ 780	
		0 11	CA- L Owner Coorespondance/Meetings	32			4																36	\$ 8,880	\$ 125	\$ 9,005	
		0 12	CA- L Team Coordination/Meetings	32			4																36	\$ 8,880	\$ 35	\$ 8,915	
		0 13	CA- L Invoicing (up to 12 in 2025)	6			12																18	\$ 3,240	\$ 3	\$ 3,243	
		0 14	CA- L Sub-Contractor(s)																							\$ -	
1	4	200	Project Coordination	36	6	0	36	2	2	2	4	6	4	6	8	2	2	8	8	0	0	0	132	\$ 24,020	\$ 276	\$ -	\$ 24,295.70
		1 10	PC- G Preconstruction Conference Meeting																				0	\$ -	\$ 112	\$ 112	
		1 11	PC- G Value Engineering Workshop(s)																				0	\$ -	\$ -	\$ -	
		1 12	PC- G Shop Drawings and Submittal Review																				0	\$ -	\$ -	\$ -	
		1 13	PC- G O&M Review	8			12			2	4	2	4	6			6	6					50	\$ 8,360	\$ 125	\$ 8,485	
		1 14	PC- G Pay Request (up to 12 in 2025)	6	6		12																24	\$ 4,260	\$ 8	\$ 4,268	
		1 15	PC- G RFI's(up to 4 in 2025)	8			4	1	1	1	1	1	1	1	1	1	1	1	1				24	\$ 4,640	\$ 18	\$ 4,658	
		1 16	PC- G Construction Bulletins/Proposal Requests/WD/WCD (up to 4 in 2025)	8			4	1	1	1	1	1	1	1	1	1	1	1	1				24	\$ 4,640	\$ 8	\$ 4,648	
		1 17	PC- G Change Orders (up to 1 in 2025)	2			2																4	\$ 800	\$ 3	\$ 803	
		1 18	PC- G Regulator Coordination	2			1																3	\$ 660	\$ 2	\$ 662	
		1 19	PC- G Funding Agency Coordination	2			1																3	\$ 660	\$ 2	\$ 662	
2	4	300	Field Services	3	4	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	\$ 3,140	\$ 2,317	\$ -	\$ 5,457
		1 10	FS- G Staking/Topo/Survey/Boundary	1	4	8																	13	\$ 2,060	\$ 2,267	\$ 4,327	
		1 11	FS- G Material Testing	2			4																6	\$ 1,080	\$ 50	\$ 1,130	
3	4	400	Construction Observation	126	208	284	6	4	0	0	4	0	4	4	16	0	8	0	9	0	0	0	673	\$ 117,260	\$ 4,381	\$ -	\$ 121,640.50
		1 10	CO- G Contractor Coorespondance	32	4	4	4	4			4		4	4	4		8		8				76	\$ 15,800	\$ 33	\$ 15,833	
		1 11	CO- G Weekly Progress Check-ins (up to 24 in 2025)	30																			30	\$ 7,800	\$ -	\$ 7,800	
		1 12	CO- G Monthly Progress Meetings (up to 6 in 2025)	24																			24	\$ 6,240	\$ 23	\$ 6,263	
		1 13	CO- G RPR Observation		200	280																	480	\$ 73,200	\$ 4,264	\$ 77,464	
		1 14	CO- G Pre-Installation Workshops	16									4	12									32	\$ 6,880	\$ 50	\$ 6,930	
		1 15	CO- G Startup Services	16																			16	\$ 4,160	\$ -	\$ 4,160	
		1 16	CO- G Coordination with Utilities	4	2		1												1				8	\$ 1,660	\$ 12	\$ 1,672	
		1 17	CO- G Coordination with other stakeholders	4	2		1																7	\$ 1,520	\$ -	\$ 1,520	
4	4	500	Close-out Services	28	16	12	8	4	0	0	4	8	20	8	4	8	0	16	20	16	0	0	172	\$ 29,280	\$ 1,604	\$ -	\$ 30,884.20
		1 10	CLO- G Operator Training																				0	\$ -	\$ 71	\$ 71	
		1 10	CLO- G Punchlist	8	8	4		4			4		20	4					4				56	\$ 11,200	\$ 1,204	\$ 12,404	
		1 10	CLO- G Close Out Documents	12	8	8	8														16		52	\$ 8,320	\$ 130	\$ 8,450	
		1 10	CLO- G Record Drawings	8									8	8		8		16	16				64	\$ 9,760	\$ 200	\$ 9,960	
		1 10	CLO- G 11 Month Warranty Review																				0	\$ -	\$ -	\$ -	
9	4	900	Non-Reimbursible Expenses	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	\$ -	\$ -	\$ -	
		1 10	TBD- G Travel (up to 8 trips in 2025)	96																			96	\$ 24,960	\$ -	\$ -	
GRAND TOTAL				360	234	304	75	10	2	2	12	14	28	18	28	10	10	24	37	16	1	1	1186	\$195,460.00	\$ 8,759.90	\$ -	\$ 204,219.90

2025 Construction Engineering Services Woodland Booster Station - City of Duluth - Estimated Expenses

2025														Prints / Copies	Plots	Mileage	Dialy Wear and Tear Allowance	Postage	Survey GPS	Survey Truck	Survey Supplies	Sub-Contractor	Misc. Expenses	Total Expenses
0% Annual Esculation Percentage														Unit Cost	\$ 0.15	\$ 1.00	\$ 0.72	\$ 5.00	\$ 1.00	\$ 40.00	\$ 0.85	\$ 1.00	\$1.00	\$1.00
Contract Line No.	Phase No.	Task No.	Description	Units	Each	Each	Miles	Day	Dollars	Hours	Miles	Dollars	Dollars	Dollars										
0	4	100				100	100	0	\$ 20.00	0	0	\$ -	\$ -	\$ 10	\$ 183									
		0	10	CA- L					10					\$ 10	\$ 20									
		0	11	CA- L					10						\$ 125									
		0	12	CA- L											\$ 35									
		0	13	CA- L											\$ 3									
		0	14	CA- L											\$ -									
1	4	200				750	120	60	\$ -	0	0	\$ -	\$ -	\$ -	\$ 276									
		1	10	PC- G				60			60				\$ 112									
		1	11	PC- G											\$ -									
		1	12	PC- G											\$ -									
		1	13	PC- G							500				\$ 125									
		1	14	PC- G							50				\$ 8									
		1	15	PC- G							50	10			\$ 18									
		1	16	PC- G							50				\$ 8									
		1	17	PC- G							20				\$ 3									
		1	18	PC- G							10				\$ 2									
		1	19	PC- G							10				\$ 2									
2	4	300				10	50	0	\$ 50.00	40	0	\$ -	\$ -	\$ 600	\$ 2,317									
		1	10	FS- G					3		40			\$ 600	\$ 2,267									
		1	11	FS- G							50				\$ 50									
3	4	400				130	130	4800	\$ 25.00	0	0	\$ -	\$ -	\$ -	\$ 4,381									
		1	10	CO- G					25						\$ 33									
		1	11	CO- G											\$ -									
		1	12	CO- G											\$ 23									
		1	13	CO- G							50	4800	150		\$ 4,264									
		1	14	CO- G							50				\$ 50									
		1	15	CO- G											\$ -									
		1	16	CO- G							10	10			\$ 12									
		1	17	CO- G											\$ -									
4	4	500				300	340	860	\$ -	0	0	\$ -	\$ -	\$ 600	\$ 1,604									
		1	10	CLO- G							50	20	60		\$ 71									
		1	10	CLO- G							50	20	800	\$ 600	\$ 1,204									
		1	10	CLO- G							200	100			\$ 130									
		1	10	CLO- G								200			\$ 200									
		1	10	CLO- G											\$ -									
9	4	900				0	0	5,000	\$ -	0	0	\$ -	\$ -	\$ 2,000	\$ -									
		1	10	TBD- G										\$ 2,000	\$ -									
						1290	740	10,720	\$ 95.00	40	0	\$ -	\$ -	\$ 3,210	\$ 8,760									

2026 Construction Engineering Services Woodland Booster Station - City of Duluth																											
		Job Title	PM	Lead RPR	RPR	Project Coordinator	Lead Civil PE	Lead Surveyor	Surveyor	Lead SE	Structural Eng	Lead Architect	Architectural Designer	Lead Plumbing & HVAC Eng	Plumbing & HVAC Eng	Process Mechanical Eng	Process Mechanical Designer	Electrical Designer	Admin.	Principal in Charge	Contract Admin.	TOTAL HOURS	LABOR COST	DIRECT EXPENSE	SUBS	TOTAL ACTUAL COST	
		Resource Last Name	Chilson	Locket	Abrams	Granberg	Loye	Schley	Olson	Gilles	Banko	Bicknell	Good	Wastlund	Eicher	Rockwieler	Yanke	Lutz	Moderson	Miller	Pribbenow						
4% Annual Escalation Percentage		2026	\$280.00	\$180.00	\$150.00	\$150.00	\$190.00	\$190.00	\$170.00	\$210.00	\$150.00	\$230.00	\$150.00	\$190.00	\$170.00	\$190.00	\$130.00	\$150.00	\$110.00	\$280.00	\$110.00						
Contract Line No.	Phase No.	Task No.	Description	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours	Planned Hours					
0	4	100	Contract Administration	12	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	23	\$ 5,100	\$ 79	\$ -	\$ 5,179
		0	10 CA- L Administration	1			1														1	1	4	\$ 820	\$ 20	\$ -	\$ 840
		0	11 CA- L Owner Coorespondance/Meetings	4			1																5	\$ 1,270	\$ 33	\$ -	\$ 1,303
		0	12 CA- L Team Coordination/Meetings	4			1																5	\$ 1,270	\$ 23	\$ -	\$ 1,293
		0	13 CA- L Invoicing (up to 6 in 2026)	3			6																9	\$ 1,740	\$ 3	\$ -	\$ 1,743
		0	14 CA- L Sub-Contractor(s)																							\$ -	\$ -
1	4	200	Project Coordination	11	3	0	15	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	33	\$ 6,470	\$ -	\$ -	\$ 6,470.00
		1	10 PC- G Preconstruction Conference Meeting																				0	\$ -	\$ -	\$ -	\$ -
		1	11 PC- G Value Engineering Workshop(s)																				0	\$ -	\$ -	\$ -	\$ -
		1	12 PC- G Shop Drawings and Submittal Review																				0	\$ -	\$ -	\$ -	\$ -
		1	13 PC- G O&M Review				2												4				8	\$ 1,460	\$ -	\$ -	\$ 1,460
		1	14 PC- G Pay Request (up to 2 in 2026)	3	3		3																9	\$ 1,830	\$ -	\$ -	\$ 1,830
		1	15 PC- G RFI's(up to 2 in 2026)	2			4																6	\$ 1,160	\$ -	\$ -	\$ 1,160
		1	16 PC- G Construction Bulletins/Proposal Requests/WD/WCD (up to 1 in 2024)	2			4																6	\$ 1,160	\$ -	\$ -	\$ 1,160
		1	17 PC- G Change Orders (up to 1 in 2026)	2			2																4	\$ 860	\$ -	\$ -	\$ 860
		1	18 PC- G Regulator Coordination																				0	\$ -	\$ -	\$ -	\$ -
		1	19 PC- G Funding Agency Coordination																				0	\$ -	\$ -	\$ -	\$ -
2	4	300	Field Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -
		1	10 FS- G Staking/Topo/Survey/Boundry																				0	\$ -	\$ -	\$ -	\$ -
		1	11 FS- G Material Testing																				0	\$ -	\$ -	\$ -	\$ -
3	4	400	Construction Observation	24	130	2	2	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	162	\$ 31,320	\$ 763	\$ -	\$ 32,082.90
		1	10 CO- G Contractor Coorespondance	10	2	2	2																16	\$ 3,760	\$ 25	\$ -	\$ 3,785
		1	11 CO- G Weekly Progress Check-ins (up to 4 in 2026)	2																			2	\$ 560	\$ -	\$ -	\$ 560
		1	12 CO- G Monthly Progress Meetings (up to 1 in 2026)	4																			4	\$ 1,120	\$ -	\$ -	\$ 1,120
		1	13 CO- G RPR Observation		120																		120	\$ 21,600	\$ 730	\$ -	\$ 22,330
		1	14 CO- G Pre-Installation Workshops																				0	\$ -	\$ -	\$ -	\$ -
		1	15 CO- G Startup Services	8	8																		16	\$ 3,680	\$ 8	\$ -	\$ 3,688
		1	16 CO- G Coordination with Utilities																4				4	\$ 600	\$ -	\$ -	\$ 600
		1	17 CO- G Coordination with other stakeholders																				0	\$ -	\$ -	\$ -	\$ -
4	4	500	Close-out Services	26	22	0	4	0	0	0	0	0	0	0	0	0	0	8	0	8	0	0	68	\$ 13,760	\$ 1,604	\$ -	\$ 15,364.20
		1	10 CLO- G Operator Training	8	8																		16	\$ 3,680	\$ 71	\$ -	\$ 3,751
		1	10 CLO- G Punchlist	2	8																		10	\$ 2,000	\$ 1,204	\$ -	\$ 3,204
		1	10 CLO- G Close Out Documents	8	2		2																20	\$ 3,780	\$ 130	\$ -	\$ 3,910
		1	10 CLO- G Record Drawings	4																			12	\$ 2,160	\$ 200	\$ -	\$ 2,360
		1	10 CLO- G 11 Month Warranty Review	4	4		2																10	\$ 2,140	\$ -	\$ -	\$ 2,140
9	4	900	Non-Reimbursible Expenses	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	\$ -	\$ -	\$ -	\$ -
		1	10 TBD- G Travel (up to 2 trips in 2026)	48																			48	\$ 13,440	\$ -	\$ -	\$ -
GRAND TOTAL				121	155	2	30	0	0	0	0	0	0	0	0	0	0	8	8	8	1	1	334	\$ 56,650.00	\$ 2,446.10	\$ -	\$ 59,096.10

2026 Construction Engineering Services Woodland Booster Station - City of Duluth - Estimated Expenses

2026														Prints / Copies	Plots	Mileage	Dialy Wear and Tear Allowance	Postage	Survey GPS	Survey Truck	Survey Supplies	Sub-Contractor	Misc. Expenses	Total Expenses
0% Annual Esculation Percentage														Unit Cost \$	0.15 \$	1.00 \$	0.72 \$	5.00 \$	1.00 \$	40.00 \$	0.85 \$	1.00 \$	1.00 \$	1.00 \$
Contract Line No.	Phase No.	Task No.	Description	Units	Each	Each	Miles	Day	Dollars	Hours	Miles	Dollars	Dollars	Dollars										
0	4	100				20	20	0	0 \$	20.00	0	0 \$	-	-	10 \$	79 \$								
		0	10	CA- L						10					10 \$	20 \$								
		0	11	CA- L		20	20			10						33 \$								
		0	12	CA- L		20	20									23 \$								
		0	13	CA- L		20										3 \$								
		0	14	CA- L												- \$								
1	4	200				0	0	0	0 \$	-	0	0 \$	-	-	-	- \$								
																- \$								
		1	10	PC- G												- \$								
		1	11	PC- G												- \$								
		1	12	PC- G												- \$								
		1	13	PC- G												- \$								
		1	14	PC- G												- \$								
		1	15	PC- G												- \$								
		1	16	PC- G												- \$								
		1	17	PC- G												- \$								
		1	18	PC- G												- \$								
		1	19	PC- G												- \$								
2	4	300				0	0	0	0 \$	-	0	0 \$	-	-	-	- \$								
		1	10	FS- G												- \$								
		1	11	FS- G												- \$								
3	4	400				50	0	320	100 \$	25.00	0	0 \$	-	-	-	763 \$								
		1	10	CO- G						25						25 \$								
		1	11	CO- G												- \$								
		1	12	CO- G												- \$								
		1	13	CO- G				320	100							730 \$								
		1	14	CO- G												- \$								
		1	15	CO- G		50										8 \$								
		1	16	CO- G												- \$								
		1	17	CO- G												- \$								
4	4	500				300	340	860	0 \$	-	0	0 \$	-	-	600 \$	1,604 \$								
		1	10	CLO- G		50	20	60								71 \$								
		1	10	CLO- G		50	20	800						600 \$		1,204 \$								
		1	10	CLO- G		200	100									130 \$								
		1	10	CLO- G			200									200 \$								
		1	10	CLO- G												- \$								
9	4	900				0	0	1,200	0 \$	-	0	0 \$	-	-	500 \$	- \$								
		1	10	TBD- G				1,200							500 \$									
						370	360	2,380	100 \$	45.00	0	0 \$	-	-	1,110 \$	2,446 \$								