Solicitation 21-AA08: Coastal Engineering Services for Duluth Seawall, Baywalk, and Harbor Drive Cost Estimate

©2021 AMI Consulting Engineers, P.A.
The information contained in this Proposal was prepared specifically for you and contains proprietary information. We would appreciate your discretion in its reproduction and distribution.
This information has been tailored to your specific project based on our understanding of your needs. Its aim is to demonstrate our ideas and approach to your project compared to our competition. We respectfully request that distribution be limited to individuals involved in your selection process.

AMI Consulting Engineers P.A.

Resource	AMI																								Gausman & Moore							
	Chad Scott, QA/QC		Chase Dewhirst, PM & Structural Lead		Zac Morris, Coastal Engineering Lead		Angly Ulschmid, Permitting Lead		Mat Burich, Const. Admin & Special Inspections		Ryan Dagger, Coastal Engineer		Kristi Mehrman, Structural Engineer & Inspections		Coating Inspector, NACE/SSPC Level 1		Entry Level Engineer & Inspections		Onsite Constr. Admin		1-Man Survey Crew		3-Man, Engineer Led Dive Team		Ed Studniski, Electrical Engineer		Lyssa Goranson, Electrical Designer					
Billing Rate	$235.00		$145.00		$145.00		$135.00		$120.00		$115.00		$115.00		$135.00		$100.00		$60.00		$150.00		$425.00		$260.00		$130.00					
Task 1 - Pre-Design	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs Subtotal	Labor Cost Subtotal	Expenses	Totals
Preliminary Engineering	3.00	$ 705.00	4.00	$ 580.00	4.00	$ 580.00	12.00	$ 1,620.00		$ -	29.25	$ 3,363.75	24.00	$ 2,760.00		$ -		$ -		$ -		$ -		$ -	2.25	$ 585.00	4.50	$ 585.00	83.00	$ 10,778.75	$ -	$ 10,778.75
Drafting & Renderings		$ -		$ -		$ -		$ -		$ -	72.00	$ 8,280.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	72.00	$ 8,280.00	$ -	$ 8,280.00
Stakeholder Meetings		$ -	9.00	$ 1,305.00	9.00	$ 1,305.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	18.00	$ 2,610.00	$ -	$ 2,610.00
Preliminary Cost Estimations	1.00	$ 235.00		$ -		$ -		$ -		$ -	12.00	$ 1,380.00	12.00	$ 1,380.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	25.00	$ 2,995.00	$ -	$ 2,995.00
Site Investigation		$ -		$ -		$ -		$ -	30.50	$ 3,660.00	17.00	$ 1,955.00		$ -		$ -	19.50	$ 1,950.00		$ -		$ -		$ -		$ -		$ -	67.00	$ 7,565.00	$3,456.50	$ 11,021.50
Coordination & A/E Design Team Meetings		$ -	16.00	$ 2,320.00		$ -		$ -	32.00	$ 3,840.00	16.00	$ 1,840.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	4.50	$ 585.00	68.50	$ 8,585.00	$ -	$ 8,585.00
Subtotal	**4.00**	**$ 940.00**	**29.00**	**$ 4,205.00**	**13.00**	**$ 1,885.00**	**12.00**	**$ 1,620.00**	**62.50**	**$ 7,500.00**	**146.25**	**$16,818.75**	**36.00**	**$ 4,140.00**	**0.00**	**$ -**	**19.50**	**$ 1,950.00**	**0.00**	**$ -**	**0.00**	**$ -**	**0.00**	**$ -**	**2.25**	**$ 585.00**	**9.00**	**$ 1,170.00**	**333.50**	**$ 40,813.75**	**$3,456.50**	**$ 44,270.25**

Task 2 - Design Development	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
Engineering	12.50	$2,937.50	16.00	$ 2,320.00	4.00	$ 580.00		$ -	70.00	$ 8,400.00	39.00	$ 4,485.00	120.00	$13,800.00		$ -		$ -		$ -		$ -		$ -	3.00	$ 780.00	24.00	$ 3,120.00	288.50	$ 36,422.50	$ -	$ 36,422.50
Technical Specifications		$ -		$ -		$ -		$ -	40.00	$ 4,800.00		$ -		$ -		$ -	15.25	$ 1,525.00		$ -		$ -		$ -		$ -	4.00	$ 520.00	59.25	$ 6,845.00	$ -	$ 6,845.00
Cost Estimation	1.00	$ 235.00		$ -		$ -		$ -	24.00	$ 2,880.00	12.00	$ 1,380.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	4.00	$ 520.00	41.00	$ 5,015.00	$ -	$ 5,015.00
Drafting & Rendering		$ -		$ -		$ -		$ -		$ -	240.00	$27,600.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	24.00	$ 3,120.00	264.00	$ 30,720.00	$ -	$ 30,720.00
Permitting		$ -		$ -		$ -	77.00	$10,395.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	77.00	$ 10,395.00	$ -	$ 10,395.00
Project Meetings		$ -	12.00	$ 1,740.00	8.00	$ 1,160.00		$ -	12.00	$ 1,440.00	8.00	$ 920.00	8.00	$ 920.00		$ -		$ -		$ -		$ -		$ -		$ -	6.00	$ 780.00	54.00	$ 6,960.00	$ -	$ 6,960.00
Coordination (EDA funding, Landscape Architect, Civil Engineering)		$ -	42.00	$ 6,090.00		$ -		$ -	26.00	$ 3,120.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	68.00	$ 9,210.00	$ -	$ 9,210.00
Site Inspections									17.00	$ 2,040.00		$ -		$ -		$ -	5.75	$ 575.00		$ -		$ -	6.00	$2,550.00		$ -		$ -	28.75	$ 5,165.00	$ 375.00	$ 5,540.00
Subtotal	**13.50**	**$3,172.50**	**70.00**	**$10,150.00**	**12.00**	**$ 1,740.00**	**77.00**	**$10,395.00**	**189.00**	**$ 22,680.00**	**299.00**	**$34,385.00**	**128.00**	**$14,720.00**	**0.00**	**$ -**	**15.25**	**$ 1,525.00**	**0.00**	**$ -**	**0.00**	**$ -**	**0.00**	**$ -**	**3.00**	**$ 780.00**	**62.00**	**$ 8,060.00**	**880.50**	**$ 110,732.50**	**$ 375.00**	**$ 111,107.50**

Task 3 - Final Design & Bidding	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
Final Engineering	7.25	$1,703.75	12.00	$ 1,740.00	8.00	$ 1,160.00		$ -		$ -	36.75	$ 4,226.25	80.00	$ 9,200.00		$ -		$ -		$ -		$ -		$ -	4.00	$1,040.00	28.00	$ 3,640.00	176.00	$ 22,710.00	$ -	$ 22,710.00
Technical Specifications	3.25	$ 763.75		$ -		$ -		$ -	16.00	$ 1,920.00		$ -		$ -		$ -	22.00	$ 2,200.00		$ -		$ -		$ -		$ -	4.00	$ 520.00	45.25	$ 5,403.75	$ -	$ 5,403.75
Cost Estimation		$ -		$ -		$ -		$ -	8.00	$ 960.00		$ -		$ -		$ -	7.75	$ 775.00		$ -		$ -		$ -		$ -	4.00	$ 520.00	19.75	$ 2,255.00	$ -	$ 2,255.00
Drafting & Rendering		$ -		$ -		$ -		$ -		$ -	100.00	$11,500.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -	24.00	$ 3,120.00	124.00	$ 14,620.00	$ -	$ 14,620.00
Final Permitting		$ -		$ -		$ -	30.00	$ 4,050.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	30.00	$ 4,050.00	$ -	$ 4,050.00
Project Meetings		$ -	8.00	$ 1,160.00	8.00	$ 1,160.00		$ -	12.00	$ 1,440.00	8.00	$ 920.00	8.00	$ 920.00		$ -		$ -		$ -		$ -		$ -		$ -	6.00	$ 780.00	50.00	$ 6,380.00	$ -	$ 6,380.00
Bidding Assistance		$ -	24.00	$ 3,480.00		$ -		$ -	40.00	$ 4,800.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	4.00	$ 520.00	68.00	$ 8,800.00	$ -	$ 8,800.00
Coordination (EDA funding, Landscape Architect, Civil Engineering)		$ -	28.00	$ 4,060.00		$ -		$ -	32.00	$ 3,840.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	60.00	$ 7,900.00	$ -	$ 7,900.00
Subtotal	**10.50**	**$2,467.50**	**72.00**	**$10,440.00**	**16.00**	**$ 2,320.00**	**30.00**	**$ 4,050.00**	**108.00**	**$ 12,960.00**	**144.75**	**$16,646.25**	**88.00**	**$10,120.00**	**0.00**	**$ -**	**29.75**	**$ 2,975.00**	**0.00**	**$ -**	**0.00**	**$ -**	**0.00**	**$ -**	**4.00**	**$1,040.00**	**70.00**	**$ 9,100.00**	**573.00**	**$ 72,118.75**	**$ -**	**$ 72,118.75**

Task 4 - Construction Administration & Inspection	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost				
Field Work (40 hrs/wk in field + office time & special inspections)		$ -	138.00	$20,010.00	60.00	$ 8,700.00		$ -	120.00	$ 14,400.00	44.00	$ 5,060.00	44.00	$ 5,060.00	90.00	$ 12,150.00	373.00	$37,300.00	1,640.00	$ 98,400.00	24.00	$3,600.00	12.00	$5,100.00		$ -		$ -	2,545.00	$ 209,780.00	$2,550.00	$ 212,330.00
Weekly Reporting		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	360.00	$ 21,600.00		$ -		$ -		$ -		$ -	360.00	$ 21,600.00	$ -	$ 21,600.00
Submittal Review		$ -	40.00	$ 5,800.00		$ -		$ -	100.00	$ 12,000.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	4.00	$ 520.00	144.00	$ 18,320.00	$ -	$ 18,320.00
Payment App / Change Orders / EPR / RFI Review & Approval		$ -	24.00	$ 3,480.00		$ -		$ -	80.00	$ 9,600.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	12.00	$ 1,560.00	116.00	$ 14,640.00	$ -	$ 14,640.00
Field Engineering		$ -	8.00	$ 1,160.00		$ -		$ -		$ -	48.00	$ 5,520.00	40.00	$ 4,600.00		$ -		$ -		$ -		$ -		$ -		$ -	12.00	$ 1,560.00	108.00	$ 12,840.00	$ -	$ 12,840.00
Project Meetings & Coordination	4.00	$ 940.00	88.00	$12,760.00		$ -		$ -	264.00	$ 31,680.00		$ -		$ -		$ -	44.00	$ 4,400.00		$ -		$ -		$ -	2.00	$ 520.00	40.00	$ 5,200.00	442.00	$ 55,500.00	$ -	$ 55,500.00
EDA Funding Coordination		$ -	40.00	$ 5,800.00		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -		$ -	40.00	$ 5,800.00	$ -	$ 5,800.00
Subtotal	**4.00**	**$ 940.00**	**338.00**	**$49,010.00**	**60.00**	**$ 8,700.00**	**0.00**	**$ -**	**564.00**	**$ 67,680.00**	**92.00**	**$10,580.00**	**84.00**	**$ 9,660.00**	**90.00**	**$ 12,150.00**	**417.00**	**$41,700.00**	**2,000.00**	**$120,000.00**	**24.00**	**$3,600.00**	**12.00**	**$5,100.00**	**2.00**	**$ 520.00**	**68.00**	**$ 8,840.00**	**3,755.00**	**$ 338,480.00**	**$2,550.00**	**$ 341,030.00**

Project Totals	**32.00**	**$7,520.00**	**509.00**	**$73,805.00**	**101.00**	**$14,645.00**	**119.00**	**$16,065.00**	**923.50**	**$110,820.00**	**682.00**	**$78,430.00**	**336.00**	**$38,640.00**	**90.00**	**$ 12,150.00**	**481.50**	**$48,150.00**	**2,000.00**	**$120,000.00**	**24.00**	**$3,600.00**	**12.00**	**$5,100.00**	**11.25**	**$2,925.00**	**209.00**	**$27,170.00**	**5,542.00**	**$ 562,145.00**	**6,381.50**	**$ 568,526.50**