

MIDDLE SCHOOL ENGINEER FEES

August 19, 2022
PND 192062

PND Engineers Inc.
9360 Glacier Highway Suite 100
Juneau, Alaska 99801

Craig Middle School Renovation MRV Architects Structural Engineering Fee Proposal

**Engineering Services
LABOR**

Task	Hourly Rate	Professional					Technical		Administrative		Task Costs	Phase Subtotal
		Struct. Eng. Principal	Senior Eng. III	Senior Eng. I	Senior Land Surveyor	Staff Engineer V	CADD Tech. V	Tech V				
A Construction Documents (100%)												
Review 65% drawings		6									\$1,260	
Foundation and Floor Framing Plans and Details Design Refinement		8	2				8				\$2,970	
Roof Framing Plans and Details Design Refinement		8	2				8				\$2,970	
Lateral Load Design Completion		8	2				8				\$2,970	
Specifications		8						12			\$3,240	
Review 95% Cost Estimate		4									\$840	\$14,250
B Bid Support												
Respond to Bidder Questions		4	4								\$1,500	\$1,500
C Construction Administration												
Submittal Reviews												
Concrete Mix Design			2								\$330	
Concrete Reinforcing Shop Drawings			4								\$660	
Timber Submittals			4								\$660	
Respond to RFIs		4	12								\$2,820	
Site Visit		1	12								\$2,190	\$6,660
Total Labor		51	44				24		12		\$22,410	\$22,410

EXPENSES

Construction Site Visit Airfare JNU-KTN	1 RT at	\$600									\$600
Construction Site Visit Airfare KTN-Craig	1 RT at	\$219									\$219
Construction Site Visit Car Rental	1 Day at	\$115	per day								\$115
Construction Site Visit Lodging	1 Day at	\$200	per day								\$200
Construction Site Visit Food	1.5 Days at	\$80	per day								\$120
Airport Parking	1 Day at	\$25	per day								\$25
Expenses Mark up	10%										\$130
Total Expenses											\$1,409

Total Structural Engineering Services

\$23,819



August 26, 2022

Paul Voelckers, Zane Jones
 MRV Architects
 Juneau, Alaska 99801

**RE: Fee Proposal – Craig Middle and Elementary Schools Renovation
 Engineering Fee Proposal Revised**

Dear Paul and Zane:

As requested, we are submitting a fee proposal for providing engineering for the Craig Schools projects (Elementary and Middle Schools). RESPEC Scope of Work includes completion of the M&E design documents from the previous 65% documents for both projects, bidding services, and Construction Administration services. You have requested that the two projects be broken out for fees, although the intention is to bid them at the same time. In addition it has been requested to provide a separate design task service for additional work at the Middle School involving boiler replacements and gym boiler removal. Elementary School RESPEC fees include mechanical, electrical, and civil engineering proposals. Middle School RESPEC fees include mechanical and electrical engineering proposals.

We will provide the design services on a fixed fee basis amount. We can provide Bidding and Construction Administration services on a time & expense to the budgets presented in the fee schedules. Summary of the fees is below. See Fee Schedules attached for breakdown.

Elementary School Renovation								
Phase	Project Management	Civil	Structural	Mechanical	Electrical	ODCs	Total	
1 #440 - Construction Documents (100%)	\$0.00	\$7,965.00	\$0.00	\$23,360.00	\$11,390.00	\$2,374.00	\$45,089.00	
2 #490 - Bid Phase Services	\$0.00	\$1,250.00	\$0.00	\$1,500.00	\$1,375.00	\$0.00	\$4,125.00	
3 #900 - Construction Administration	\$0.00	\$7,245.00	\$0.00	\$24,335.00	\$12,900.00	\$9,696.00	\$54,176.00	
Subtotal	\$0.00	\$16,460.00	\$0.00	\$49,195.00	\$25,665.00	\$12,070.00	\$103,390.00	

Middle School Renovation						
Phase	Project Management	Mechanical	Electrical	ODCs	Total	
1 #440 - Construction Documents (100%)	\$0.00	\$38,250.00	\$21,140.00	\$1,262.00	\$60,652.00	
2 #490 - Bid Phase Services	\$0.00	\$2,105.00	\$2,040.00	\$0.00	\$4,145.00	
3 #900 - Construction Administration	\$0.00	\$33,715.00	\$19,020.00	\$8,309.00	\$61,044.00	
4 # - Construction Documents (100%) - MS Boiler Replacement	\$0.00	\$6,830.00	\$3,000.00	\$0.00	\$9,830.00	
Subtotal	\$0.00	\$80,900.00	\$45,200.00	\$9,571.00	\$135,671.00	

9109 MENDENHALL MALL RD.
 SUITE 4
 JUNEAU, AK 99801
 907.780.6060



Design fee for the Elementary school M, E, C:	\$45,089.
Design Fee for the Middle School M, E:	\$60,652.
Additional Design Fee for MS Boiler Replacement M, E:	\$ 9,830.
B-CA Fees for Elementary School M, E, C:	\$58,301.
B-CA Fees for Middle School M, E:	\$65,189.

Assumptions and Exclusion are:

- Cost estimate review is provided in the fee proposal at 95% Documents.
- Site visit (1) are planned for Mechanical and Electrical during the 95% design period. The one site trip with mechanical and electrical engineers will be used for both schools. Civil engineer will not provide a trip but will rely on M&E site trip and the Owner to gather on-site data for civil work. If the projects design will not be done at the same time, an additional site trip may be required and will be negotiated at that time.
- Sprinkler system performance design and specification will be included for the Elementary school. Sprinkler fire suppression systems are required per State Fire Marshal requirements. Modification of existing Middle School system is included as a performance design also.
- Civil engineering fees will be provided for the Elementary school only with scope of work of a new water service for fire suppression sprinkler system. No previous civil engineering design work has been done for this project so we will proceed right to final design documents. Connections to the existing 8" ductile iron water main will be made for a new 6" fire sprinkler supply line to the building. Construction site visits will include 1 site visit at substantial inspection with punch list. No final insp visit.
- Topographic Survey for Civil Engineering: It is not known if existing topographic mapping or as-builts of the Craig Elementary School exist for designing the new 6" sprinkler service to the elementary school building. If no information exists for facilitating the design effort then we would suggest a fee amendment to include topographic mapping for the fire sprinkler water service line.
- Middle School Boiler replacement design services assume that design work will be done concurrent with the main base bid Middle School project.
- Conformed drawings are included at the end of the Bidding period.
- **Construction services are presented as two separate T&E projects. If the two projects are built at the same time then these fees could be reduced.**
- Electronic as-builts are not included in the Construction Services fee proposal. Review of Contractor redline as-builts is included.

Thank you for the opportunity to providing these services. We look forward to beginning this work. Please call if you have any questions or comments.

Sincerely,

Douglas Murray, PE
Principal, PDC Engineers
Attachments: Fee schedules.



Middle School Renovation

Phase	Project Management	Mechanical	Electrical	ODCs	Total
1 #440 - Construction Documents (100%)	\$0.00	\$38,250.00	\$21,140.00	\$1,262.00	\$60,652.00
2 #490 - Bid Phase Services	\$0.00	\$2,105.00	\$2,040.00	\$0.00	\$4,145.00
3 #900 - Construction Administration	\$0.00	\$33,715.00	\$19,020.00	\$8,309.00	\$61,044.00
4 # - Construction Documents (100%) - MS Boiler Replacement	\$0.00	\$6,830.00	\$3,000.00	\$0.00	\$9,830.00
Subtotal	\$0.00	\$80,900.00	\$45,200.00	\$9,571.00	\$135,671.00
Est Tax					\$0.00
Total					\$135,671.00



Phase 1

#440 - Construction Documents (100%)	Principal Mech Eng	Senior Mech Eng	Project Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$180.00	\$165.00	\$130.00	\$110.00	\$95.00		
Set Up Project	1	1	2		2		6	\$980.00
Update Calculations		1	2	4			7	\$1,030.00
Equip Selection		1	3	10			14	\$1,975.00
Mech - Plumbing		6	24		32		62	\$8,560.00
Mech - Ventilation/Exh		8	72		64		144	\$20,360.00
Specifications		7					7	\$1,260.00
Project Coordination		2	4		2		8	\$1,240.00
Review Cost Estimate			2				2	\$330.00
Project Review Meeting		2	3				5	\$855.00
QC	3						3	\$750.00
Submittals; 95%, 100%		2	2		2		6	\$910.00
Hourly Subtotal	4	30	114	14	102	0	264	
Cost	\$1,000.00	\$5,400.00	\$18,810.00	\$1,820.00	\$11,220.00	\$0.00		\$38,250.00

Phase 2

#490 - Bid Phase Services	Principal Mech Eng	Senior Mech Eng	Project Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$180.00	\$165.00	\$130.00	\$110.00	\$95.00		
Bidding Coordination		1	7		2		10	\$1,555.00
Conformed Documents			2		2		4	\$550.00
Hourly Subtotal	0	1	9	0	4	0	14	
Cost	\$0.00	\$180.00	\$1,485.00	\$0.00	\$440.00	\$0.00		\$2,105.00

Phase 3

#900 - Construction Administration	Principal Mech Eng	Senior Mech Eng	Project Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$180.00	\$165.00	\$130.00	\$110.00	\$95.00		
Pre-Construction Mtg			2				2	\$330.00
Project Coord RFI's, RFP's		4	78	10	12		104	\$16,210.00
Submittal Review			8	24			32	\$4,440.00
Progress Meetings (4)			7				7	\$1,155.00
Progress Observation (2)			24				24	\$3,960.00
Sub Compl Insp (1)			20				20	\$3,300.00
Final Compl Insp (1)			16				16	\$2,640.00
Close-out Reviews/Coord		2	8				10	\$1,680.00
Hourly Subtotal	0	6	163	34	12	0	215	
Cost	\$0.00	\$1,080.00	\$26,895.00	\$4,420.00	\$1,320.00	\$0.00		\$33,715.00



Phase 4

- Construction

Documents (100%) - MS Boiler Replacement	Principal Mech Eng	Senior Mech Eng	Project Mech Eng	Mech. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$180.00	\$165.00	\$130.00	\$110.00	\$95.00		
Set Up Project - in Base			1		1		2	\$275.00
Calculations			2				2	\$330.00
Equip Selection		1	6				7	\$1,170.00
Mech - Boilers		2	14		13		29	\$4,100.00
Specifications		3					3	\$540.00
Project Coordination			1				1	\$165.00
Review Cost Estimate - In Base		0					0	\$0.00
Project Review Meeting in base		0					0	\$0.00
QC	1						1	\$250.00
Submittals; 95%, 100% in base		0			0		0	\$0.00
Hourly Subtotal	1	6	24	0	14	0	45	
Cost	\$250.00	\$1,080.00	\$3,960.00	\$0.00	\$1,540.00	\$0.00		\$6,830.00

Mechanical Hours	5	43	310	48	132	0	538	
Mechanical Cost	\$1,250.00	\$7,740.00	\$51,150.00	\$6,240.00	\$14,520.00	\$0.00		\$80,900.00



Phase								
1								
#440 - Construction Documents (100%)	Principal Elec. Eng	Project Elec. Eng	Elec. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost	
Billing Rate	\$250.00	\$160.00	\$105.00	\$110.00	\$95.00			
Project Setup & Team Kickoff	1	1				2	\$410.00	
65% drawing set review		2				2	\$320.00	
Power layout update		2		1		3	\$430.00	
Lighting layout & product update				8		8	\$880.00	
Low Voltage Systems update		2		1		3	\$430.00	
HVAC Coordination & Schedule		6		3		9	\$1,290.00	
Power & Lighting Circuiting		16		24		40	\$5,200.00	
Panel Schedules		8		8		16	\$2,160.00	
Single Line Diagram update		4		2		6	\$860.00	
Coordination Study		12				12	\$1,920.00	
Low Voltage Circuiting		6		4		10	\$1,400.00	
Schematic Diagrams		2		2		4	\$540.00	
Details		2		2		4	\$540.00	
Specifications		8				8	\$1,280.00	
Construction Cost Estimate Review		2				2	\$320.00	
Team Coordination		2		2		4	\$540.00	
95% Submittal		1		1		2	\$270.00	
QC Review	4					4	\$1,000.00	
Drawing & Specification Updates		4		4		8	\$1,080.00	
Final Submittal		1		1		2	\$270.00	
Hourly Subtotal	5	81	0	63	0	149		
Cost	\$1,250.00	\$12,960.00	\$0.00	\$6,930.00	\$0.00		\$21,140.00	

Phase								
2								
#490 - Bid Phase Services	Principal Elec. Eng	Project Elec. Eng	Elec. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost	
Billing Rate	\$250.00	\$160.00	\$105.00	\$110.00	\$95.00			
Pre-Bid Meeting		2				2	\$320.00	
Contractor Questions		2				2	\$320.00	
Addendums		2				2	\$320.00	
Bid Review		1				1	\$160.00	
Conformed Documents		3		4		7	\$920.00	
						0	\$0.00	
						0	\$0.00	
Hourly Subtotal	0	10	0	4	0	14		
Cost	\$0.00	\$1,600.00	\$0.00	\$440.00	\$0.00		\$2,040.00	



Phase	3						
#900 - Construction Administration	Principal Elec. Eng	Project Elec. Eng	Elec. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$160.00	\$105.00	\$110.00	\$95.00		
Pre-Construction Meeting		3				3	\$480.00
Contractor Questions & RFI's		20		8		28	\$4,080.00
Submittal Review		16		8		24	\$3,440.00
Progress Meetings (3)		4		2		6	\$860.00
Progress Inspection (1)		16				16	\$2,560.00
Substantial Inspection		20				20	\$3,200.00
Final Inspection		16				16	\$2,560.00
As-builts		6		8		14	\$1,840.00
						0	\$0.00
Hourly Subtotal	0	101	0	26	0	127	
Cost	\$0.00	\$16,160.00	\$0.00	\$2,860.00	\$0.00		\$19,020.00

Phase	4						
# - Construction Documents (100%) - MS Boiler Replacement	Principal Elec. Eng	Project Elec. Eng	Elec. EIT	Lead Eng Tech	Staff Eng Tech	Hourly Subtotal	Cost
Billing Rate	\$250.00	\$160.00	\$105.00	\$110.00	\$95.00		
HVAC Coordination		2				2	\$320.00
Power Layout		2		2		4	\$540.00
Circuiting		4		4		8	\$1,080.00
Details		2		2		4	\$540.00
QC Review	1					1	\$250.00
Final Submittal		1		1		2	\$270.00
Hourly Subtotal	1	11	0	9	0	21	
Cost	\$250.00	\$1,760.00	\$0.00	\$990.00	\$0.00		\$3,000.00

Electrical Hours	6	203	0	102	0	311	
Electrical Cost	\$1,500.00	\$32,480.00	\$0.00	\$11,220.00	\$0.00		\$45,200.00



Phase

#440 - Construction Documents (100%)

Billing Rate	Unit	Unit Cost	Project			Qty	Cost
			Management	Mechanical	Electrical		
Copies/Prints/Scans (Letter)	ea	\$0.10				0	\$0.00
Copies/Prints/Scans (11x17)	ea	\$0.20				0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00				0	\$0.00
Teleconference Costing	hr/line	\$3.00				0	\$0.00
Airfare	ea	\$800.00		1		1	\$800.00
Rentals	day	\$175.00		1		1	\$175.00
Survey GPS Rental	day	\$309.00				0	\$0.00
Shipping	ea	\$25.00				0	\$0.00
Parking	day	\$16.00		2		2	\$32.00
Hotel	day	\$180.00		1		1	\$180.00
Mileage	mile	\$0.585				0	\$0.00
Per Diem	man day	\$75.00		1		1	\$75.00
Cost			\$0.00	\$1,262.00	\$0.00		\$1,262.00

Phase

#490 - Bid Phase Services

Billing Rate	Unit	Unit Cost	Project			Qty	Cost
			Management	Mechanical	Electrical		
Copies/Prints/Scans (Letter)	ea	\$0.10				0	\$0.00
Copies/Prints/Scans (11x17)	ea	\$0.20				0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00				0	\$0.00
Teleconference Costing	hr/line	\$3.00				0	\$0.00
Airfare	ea	\$800.00				0	\$0.00
Rentals	day	\$175.00				0	\$0.00
Survey GPS Rental	day	\$309.00				0	\$0.00
Shipping	ea	\$25.00				0	\$0.00
Parking	day	\$16.00				0	\$0.00
Hotel	day	\$180.00				0	\$0.00
Mileage	mile	\$0.585				0	\$0.00
Per Diem	man day	\$75.00				0	\$0.00
Cost			\$0.00	\$0.00	\$0.00		\$0.00

Phase

#900 - Construction Administration

Billing Rate	Unit	Unit Cost	Project			Qty	Cost
			Management	Mechanical	Electrical		
Copies/Prints/Scans (Letter)	ea	\$0.10				0	\$0.00
Copies/Prints/Scans (11x17)	ea	\$0.20				0	\$0.00
Copies/Prints/Scans (Full Size)	ea	\$1.00				0	\$0.00
Teleconference Costing	hr/line	\$3.00				0	\$0.00
Airfare	ea	\$800.00		4	3	7	\$5,600.00
Rentals	day	\$175.00		4		4	\$700.00
Survey GPS Rental	day	\$309.00				0	\$0.00
Shipping	ea	\$25.00				0	\$0.00
Parking	day	\$16.00		8	6	14	\$224.00
Hotel	day	\$180.00		4	3	7	\$1,260.00
Mileage	mile	\$0.585				0	\$0.00



Per Diem	man day	\$75.00		4	3	7	\$525.00
Cost			\$0.00	\$5,048.00	\$3,261.00		\$8,309.00

MIDDLE SCHOOL



4103 Minnesota Drive
Anchorage, AK 99503

P: 907.561.1653
F: 907.562.0420

mail@hmsalaska.com

DATE
8/25/2022
FEE PROPOSAL NO.
P22-08-18 (Rev. 1)
HMS PROJECT NO.
N/A

<i>Fee Proposal Prepared For:</i>
MRV Architects 1420 Glacier Avenue, Suite 101 Juneau, Alaska 99801 Attn: Zane Jones

Project: Craig Middle and Elementary School Renovations

Location: Craig, Alaska

1. Project Description and Service

Prepare construction cost estimates for upgrading the 65% design estimates with minor changes moving into the final design, including the following scope of work.

- Renovations to existing 15,000 SF single story elementary school, including all disciplines of construction.
- Renovations to existing middle school's 24,720 SF first floor and 1,400 SF mezzanine, including all disciplines of construction and one additive alternate for new boiler upgrade.

The estimates will be prepared in Unifomat Elemental Categories and priced for summer 2023 construction.

2. Fee Breakdown and Schedule (Lump Sum)

Elementary School 100% Design Estimate	\$ 3,880.00	Within (10) Full Working Days
Middle School 100% Design Estimate	4,968.00	Within (10) Full Working Days
TOTAL FEE:	<u><u>\$ 8,848.00</u></u>	

The above fee does not include preparation of additive bid items or alternates. See 3. Terms below.

Allow the above full working days to provide the proposed services. Time for task completion will begin following receipt of all available design information for that particular phase. Please note the above durations exclude weekends, holidays and partial days. Please give two weeks advance notice for commencing each phase of work.

3. Terms

Deliverable:

HMS Inc. will provide a copy of our estimate via email in a PDF file format or in Excel, if necessary. Should a hard copy of the estimate be necessary, at your request, a bound or loose copy will be provided to you.

Drawings:

Architect/Engineer shall provide HMS Inc. with full size, correct scale drawings, along with an electronic set (PDF format preferred). Should these not be provided, it may be necessary to increase our fee proposal and add additional days to complete our work.

Should it be necessary, HMS Inc. has the capability to print one or two drawings, however, depending on the quantity, an additional charge may be added at \$4.00/sheet.



4103 Minnesota Drive
Anchorage, AK 99503

P: 907.561.1653
F: 907.562.0420

mail@hmsalaska.com

DATE
8/25/2022
FEE PROPOSAL NO.
P22-08-18 (Rev. 1)
HMS PROJECT NO.
N/A

3. Terms (Continued)

Additive Bid Items or Alternates:

Our fee proposal does not include preparing estimates for additive bid items or alternates (except those included in Section 2 Fee Breakdown) that require re-measurement of work items included in the Base Bid cost estimate. We reserve the right to renegotiate our fee should alternates become necessary beyond one or two minor alternates or additive bid items.

Reimbursable Expenses:

This fee proposal does not provide for long distance phone calls, site visits, meetings with the owner, or any other unforeseen expenses unless listed in Section 2. Fee Breakdown. Any such items, if required, will be charged on a time-and-expense basis at our current rate schedule.

Penalty/Bonus Condition:

This proposal is made on the understanding that we will not be entering into an agreement with the client that includes a penalty/bonus condition dependent on the outcome of the bid. Should such a clause be required, we reserve the right to modify our proposal or possibly withdraw from the project.

Additional Insured:

Any requirements to name additional insureds on our insurance policies may be subject to additional fees should fees be added to our policy by our carrier.

Payment Terms:

Payment shall be made within (45) days of invoice date. Delayed payment beyond that period is subject to a 1.5% fee per month.

Expiration Date:

This fee proposal is valid for (6) months from the date of issue. HMS Inc. reserves the right to adjust the fee to incorporate the current years rates after the (6) month period.

Change in Scope:

Should the project scope or format change, HMS Inc. reserves the right to modify this proposal. Written approval for work on increased scope items prior to proceeding with additional work will be required.

Notice to Proceed:

Designer/owner will provide written notice to proceed. Delivery of documents is not considered a notice to proceed.

Prepared By:

Dilip Patel, Principal
DP/kh



4103 Minnesota Drive
Anchorage, AK 99503

P: 907.561.1653
F: 907.562.0420

mail@hmsalaska.com

DATE
8/25/2022
FEE PROPOSAL NO.
P22-08-18 (Rev. 1)
OLD PROJECT NO.
N/A

FEE BREAKDOWN (2022 SCHEDULE OF RATES)

Project: Craig Middle and Elementary School Renovations

A/E Firm: MRV Architects

Location: Craig, Alaska

Prepared By: Dilip Patel, Principal

<i>Discipline</i>	<i>Rate</i>	<i>Hours</i>	<i>Subtotal</i>	<i>Total Hours</i>	<i>Total Fee</i>
-------------------	-------------	--------------	-----------------	--------------------	------------------

Elementary School 100% Design Estimate:

Estimator V	183.00	x	1	=	183.00
Estimator IV	159.00	x	10	=	1,590.00
Estimator III	149.00	x	10	=	1,490.00
Estimator II	127.00	x	3	=	381.00
Estimator I	86.00	x	0	=	0.00
Office Support II	86.00	x	2	=	172.00
Office Support I	64.00	x	1	=	64.00

Total Elementary School 100% Design Estimate:

~~27 Hours \$ 3,880.00~~

Middle School 100% Design Estimate:

Estimator V	183.00	x	1	=	183.00
Estimator IV	159.00	x	10	=	1,590.00
Estimator III	149.00	x	17	=	2,533.00
Estimator II	127.00	x	2	=	254.00
Estimator I	86.00	x	0	=	0.00
Office Support II	86.00	x	4	=	344.00
Office Support I	64.00	x	1	=	64.00

Total Middle School 100% Design Estimate:

35 Hours \$ 4,968.00

TOTAL:

62 Hours

\$ 8,848.00