

35% DESIGN SUBMITTAL
CONSTRUCTION COST ESTIMATE

CITY OF VALDEZ
FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA

PREPARED FOR:

Wolf Architecture
625 South Cobb Street, Suite 200
Palmer, Alaska 99645

March 12, 2019



HMS Project No.: 19027

NOTES REGARDING THE PREPARATION OF THIS ESTIMATE

DRAWINGS AND DOCUMENTS

Level of Documents: (83) 35% design drawings, including design narratives
Date: February 25, 2019
Provided By: Wolf Architecture and their subconsultants of Anchorage and Palmer, Alaska

RATES

Pricing is based on current material, equipment and freight costs.

Labor Rates: A.S. Title 36 working 60 hours per week
Premium Time: 16.70%

BIDDING ASSUMPTIONS

Contract: Standard construction contract without restrictive bidding clauses
Bidding Situation: Competitive bids assumed
Bid Date: January 1, 2020
Start of Construction: Spring 2020
Months to Complete: Within (15) months, including materials procurement, submittals, etc.
Construction Time: (13) months

EXCLUDED COSTS

1. A/E design fees
2. Administrative and management costs
3. Furniture, furnishings and equipment (except those specifically included)
4. Demolition of existing fire station

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NOTES REGARDING THE PREPARATION OF THIS ESTIMATE (Continued)

GENERAL

When included in HMS Inc.'s scope of services, opinions or estimates of probable construction costs are prepared on the basis of HMS Inc.'s experience and qualifications and represent HMS Inc.'s judgment as a professional generally familiar with the industry. However, since HMS Inc. has no control over the cost of labor, materials, equipment or services furnished by others, over contractor's methods of determining prices, or over competitive bidding or market conditions, HMS Inc. cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from HMS Inc.'s opinions or estimates of probable construction cost.

This estimate assumes normal escalation based on the current economic climate. While the global economic downturn appears to be moderating, it remains unclear how its effects and subsequent economic recovery will affect construction costs. HMS Inc. will continue to monitor this, as well as other international, domestic and local events, and the resulting construction climate, and will adjust costs and contingencies as deemed appropriate.

GROSS FLOOR AREA

First Level	13,958 SF
Second Level	<u>4,480 SF</u>

TOTAL GROSS FLOOR AREA:	<u><u>18,438 SF</u></u>
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(3) SECTION FIRE TRAINING SIMULATOR (NOT IN GFA)

Section A - Three-Story Tower	770 SF
Section B - Two-Story Residential/Industrial	1,090 SF
Section C - One-Story Annex	<u>320 SF</u>

TOTAL FIRE TRAINING SIMULATOR:	<u><u>2,180 SF</u></u>
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35% DESIGN COST SUMMARY

	<i>Material</i>	<i>Labor</i>	<i>Total</i>
01 - SITE WORK	\$ 1,553,020	\$ 1,269,993	\$ 2,823,013
02 - SUBSTRUCTURE	321,326	221,287	542,613
03 - SUPERSTRUCTURE	731,428	461,267	1,192,695
04 - EXTERIOR CLOSURE	555,730	271,153	826,883
05 - ROOF SYSTEMS	183,623	153,939	337,562
06 - INTERIOR CONSTRUCTION	350,824	377,355	728,179
07 - CONVEYING SYSTEMS	68,400	39,211	107,611
08 - MECHANICAL	763,345	708,948	1,472,293
09 - ELECTRICAL	279,627	354,136	633,763
10 - EQUIPMENT	206,675	20,579	227,254
11 - SPECIAL CONSTRUCTION	0	0	0
<i>SUBTOTAL:</i>	<i>\$ 5,013,998</i>	<i>\$ 3,877,868</i>	<i>\$ 8,891,866</i>
12 - GENERAL REQUIREMENTS			3,025,934
<i>SUBTOTAL:</i>			<i>\$ 11,917,800</i>
13 - CONTINGENCIES			1,266,654
TOTAL ESTIMATED CONSTRUCTION COST (BID JANUARY 1, 2020):			\$ 13,184,454
COST PER SQUARE FOOT:			\$ 715.07 /SF
GROSS FLOOR AREA:			18,438 SF

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ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Cost per SF</i>
01 - SITE WORK				\$ 2,823,013	\$ 153.11
011 - Hazmat Abatement	\$ 0	\$ 0	\$ 0		0.00
012 - Site Preparation and Demolition	339,781	331,152	670,933		36.39
013 - Site Structures					
• Fire Training Tower/Simulator	313,170	277,693	590,863		32.05
• Free Standing Generator/Tank Canopy	27,680	19,050	46,730		2.53
014 - Site Improvements	450,769	300,882	751,651		40.77
015 - Site Mechanical	260,207	230,875	491,082		26.63
016 - Site Electrical	161,413	110,341	271,754		14.74
02 - SUBSTRUCTURE				\$ 542,613	\$ 29.43
021 - Standard Foundations	\$ 142,785	\$ 126,070	\$ 268,855		14.58
022 - Slab on Grade	178,541	95,217	273,758		14.85
023 - Basement	0	0	0		0.00
024 - Special Foundations	0	0	0		0.00
03 - SUPERSTRUCTURE				\$ 1,192,695	\$ 64.69
031 - Floor Construction	\$ 145,823	\$ 97,197	\$ 243,020		13.18
032 - Roof Construction	552,338	350,869	903,207		48.99
033 - Stair Construction	33,267	13,201	46,468		2.52
04 - EXTERIOR CLOSURE				\$ 826,883	\$ 44.85
041 - Exterior Walls	\$ 325,669	\$ 206,089	\$ 531,758		28.84
042 - Exterior Doors and Windows	230,061	65,064	295,125		16.01
05 - ROOF SYSTEMS				\$ 337,562	\$ 18.31
051 - Roofing	\$ 183,623	\$ 153,939	\$ 337,562		18.31
052 - Skylights	0	0	0		0.00
06 - INTERIOR CONSTRUCTION				\$ 728,179	\$ 39.49
061 - Partitions and Doors	\$ 131,434	\$ 144,834	\$ 276,268		14.98

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ELEMENTAL SUMMARY

<i>Element</i>	<i>Material</i>	<i>Labor</i>	<i>Total Material/Labor</i>	<i>Total Cost</i>	<i>Cost per SF</i>
062 - Interior Finishes	143,505	208,062	351,567		19.07
063 - Specialties	75,885	24,459	100,344		5.44
07 - CONVEYING SYSTEMS	\$ 68,400	\$ 39,211		\$ 107,611	\$ 5.84
08 - MECHANICAL				\$ 1,472,293	\$ 79.85
081 - Plumbing	\$ 177,614	\$ 194,472	\$ 372,086		20.18
082 - HVAC	463,693	412,386	876,079		47.51
083 - Fire Protection	54,106	70,454	124,560		6.76
084 - Special Mechanical Systems	67,932	31,636	99,568		5.40
09 - ELECTRICAL				\$ 633,763	\$ 34.37
091 - Service and Distribution	\$ 70,283	\$ 41,155	\$ 111,438		6.04
092 - Lighting and Power	129,726	202,847	332,573		18.04
093 - Special Electrical Systems	79,618	110,134	189,752		10.29
10 - EQUIPMENT				\$ 227,254	\$ 12.33
101 - Fixed and Movable Equipment	\$ 199,003	\$ 19,250	\$ 218,253		11.84
102 - Furnishings	7,672	1,329	9,001		0.49
11 - SPECIAL CONSTRUCTION	\$ 0	\$ 0		\$ 0	\$ 0.00
SUBTOTAL DIRECT WORK:	\$ 5,013,998	\$ 3,877,868		\$ 8,891,866	
12 - GENERAL REQUIREMENTS				\$ 3,025,934	\$ 164.11
121 - Mobilization			\$ 31,750		1.72
122 - Operation Costs			2,078,926		112.75
123 - Profit			915,258		49.64
13 - CONTINGENCIES				\$ 1,266,654	\$ 68.70
131 - Estimator's Contingency	7.50%		\$ 893,835		48.48
132 - Escalation Contingency	2.91%		372,819		20.22
TOTAL ESTIMATED CONSTRUCTION COST:				\$ 13,184,454	\$715.07 /SF
GROSS FLOOR AREA:					18,438 SF

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
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01 - SITE WORK 012 - Site Preparation and Demolition	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

SITE PREPARATION

Note: Quantities by architect.

Site surveying and staking	3.97	AC	1000.00	3,970	6500.00	25,805	7500.00	29,775
Erosion and pollution control at paved areas	74,500	SF	0.03	2,235	0.05	3,725	0.08	5,960
SWPP plan implementation	1	LOT	1000.00	1,000	2000.00	2,000	3000.00	3,000
ROW permits at roadways	1	LOT	3500.00	3,500			3500.00	3,500
Traffic control barriers and signs	4	MOS	750.00	3,000	1250.00	5,000	2000.00	8,000
Flag person for entrance work	6	WKS	100.00	600	1400.00	8,400	1500.00	9,000
Temporary construction fencing and gates	1,200	LF	8.50	10,200	4.25	5,100	12.75	15,300

SITE DEMOLITION

Cut and remove curb and gutter	260	LF			4.80	1,248	4.80	1,248
Cut and remove sidewalks	1,040	SF			1.25	1,300	1.25	1,300
Saw cut 2" AC pavement at roadways (5)	220	LF	0.40	88	1.25	275	1.65	363
Remove AC pavement and dispose for recycling	20,474	SF			0.60	12,284	0.60	12,284
Dispose concrete and miscellaneous debris	35	TONS	80.00	2,800	50.00	1,750	130.00	4,550

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01 - SITE WORK 012 - Site Preparation and Demolition	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

EARTHWORK

Clearing, grub up roots and dispose	1.18	AC	1500.00	1,770	6000.00	7,080	7500.00	8,850
Remove average 12" deep organics under landscape areas and dispose (65,200 SF)	2,415	CY			7.00	16,905	7.00	16,905
Excavate average 18" deep under parking/roads/walks, etc. and dispose (102,500 SF)	5,695	CY			7.50	42,713	7.50	42,713
Excavate average 30" deep under building slab and dispose (14,000 SF)	1,296	CY			7.50	9,720	7.50	9,720
Proof roll site under building	14,000	SF			0.20	2,800	0.20	2,800
Average 36" deep Type II classified fill under building, compacted (14,000 SF)	1,867	CY	27.50	51,343	8.00	14,936	35.50	66,279
Average 18" deep Type II fill at pavements and training area, compacted (102,500 SF)	6,833	CY	27.50	187,908	8.00	54,664	35.50	242,572
Rough grade pavement areas	116,500	SF			0.15	17,475	0.15	17,475
Dewatering allowance (10% of excavation)	940	CY	7.30	6,862	3.50	3,290	10.80	10,152
Soil compaction density tests (1 per 250 CY)	35	EA	225.00	7,875			225.00	7,875
SUBTOTAL:				\$ 283,151		\$ 236,470		\$ 519,621

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01 - SITE WORK 012 - Site Preparation and Demolition	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Labor Premium Time	16.70%					39,490		39,490
SUBTOTAL:				\$ 283,151		\$ 275,960		\$ 559,111
Subcontractor's Overhead and Profit on Material and Labor	20.00%			56,630		55,192		111,822
TOTAL ESTIMATED COST:				\$ 339,781		\$ 331,152		\$ 670,933

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01 - SITE WORK 013 - Site Structures • Fire Training Tower/Simulator	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

Note: Budgetary tower/simulator costs provided by Alan Henderson with WHP Training Towers, 800-351-2525.

Concrete foundations, including design, soil testing, and 4" concrete fill on floor decks	1	LOT	53000.00	53,000	32000.00	32,000	85000.00	85,000
Training tower/simulator, including materials, freight, and labor	1	LOT	235170.00	235,170	233193.00	233,193	468363.00	468,363
Electrical service and LED light fixtures (allowance)	1	LOT	25000.00	25,000	12500.00	12,500	37500.00	37,500

Note: Premium time and per diem included in labor cost.

TOTAL ESTIMATED COST:	\$ 313,170	\$ 277,693	\$ 590,863
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01 - SITE WORK 013 - Site Structures • Free Standing Generator and Tank Canopy	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

18'0"x24'0" free standing canopy at generator and tanks (canopy consists of four galvanized HSS columns, galvanized roof framing, and metal roofing)

432 SF 52.50 22,680 32.00 13,824 84.50 36,504

Electrical service and LED light fixtures (allowance)

1 LOT 5000.00 5,000 2500.00 2,500 7500.00 7,500

SUBTOTAL:

\$ 27,680 \$ 16,324 \$ 44,004

Labor Premium Time

16.70% 2,726 2,726

TOTAL ESTIMATED COST:	\$ 27,680	\$ 19,050	\$ 46,730
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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
014 - Site Improvements			\$	\$	\$	\$	\$	\$

AC PAVEMENTS SIGNAGE, ETC.

Note: Quantities by architect.

2" D1 leveling course at roadways and visitor parking	60	CY	40.00	2,400	8.50	510	48.50	2,910
4" D1 leveling course at fire station ingress, egress, and training area	952	CY	40.00	38,080	8.50	8,092	48.50	46,172
2" asphalt paving at roadway utility patches (13 tons)	1,000	SF	1.60	1,600	1.40	1,400	3.00	3,000
2" asphalt paving at parking (94 tons)	7,500	SF	1.60	12,000	1.20	9,000	2.80	21,000
3" asphalt paving at fire station ingress, egress, and training area (525 tons)	63,000	SF	2.20	138,600	1.60	100,800	3.80	239,400
Tack coat joint to existing pavement at roadways	450	LF	0.20	90	1.00	450	1.20	540
Cross hatch markings (2)	288	SF	0.60	173	1.00	288	1.60	461
Paint handicapped accessible curbs blue (2)	20	LF	1.50	30	2.50	50	4.00	80
Paint parking stalls	20	EA	20.00	400	30.00	600	50.00	1,000
Mark handicapped symbols on pavement	2	EA	20.00	40	45.00	90	65.00	130
Traffic directional signs, posts and bases	4	EA	155.00	620	120.00	480	275.00	1,100

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01 - SITE WORK 014 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

AC PAVEMENTS SIGNAGE, ETC. (Continued)

Two panel handicapped accessible signs, posts and bases	2	EA	138.00	276	115.00	230	253.00	506
Single panel 'No Parking, Staff Parking' signs, posts and bases at snow storage areas	6	EA	150.00	900	115.00	690	265.00	1,590

SEAT WALLS, CONCRETE CURBS AND GUTTERS

18"x12" reinforced concrete seat walls	72	LF	42.50	3,060	32.50	2,340	75.00	5,400
24"x8" thick x 6" concrete curbs and gutters at parking sidewalks	200	LF	18.50	3,700	15.20	3,040	33.70	6,740
24"x8" thick x6" concrete curbs and gutters at replaced sidewalks	260	LF	18.50	4,810	16.50	4,290	35.00	9,100
Joints to existing curbs	56	LF	10.00	560	15.00	840	25.00	1,400

PLAZA AND SIDEWALKS

4" D1 subbase under sidewalks, pads, etc. (4,000 SF)	1,632	CY	40.00	65,280	8.50	13,872	48.50	79,152
4" mesh reinforced scored concrete sidewalks and joints, broom finished	3,600	SF	5.40	19,440	3.70	13,320	9.10	32,760
Extra for ADA ramps (2)	300	SF	0.50	150	2.00	600	2.50	750

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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
014 - Site Improvements			\$	\$	\$	\$	\$	\$

PLAZA AND SIDEWALKS (Continued)

4" reinforced concrete utility pads	400	SF	5.40	2,160	3.70	1,480	9.10	3,640
Extra for thickened edges for seat walls	72	LF	3.25	234	1.70	122	4.95	356
1/2"x4" expansion joints at replaced sidewalks	60	LF	1.70	102	1.85	111	3.55	213

BOLLARDS, FENCING, AND SCREEN WALLS

6" diameter x 90" concrete filled pipe bollards with 18" diameter x 36" deep concrete bases, painted yellow above grade at overhead doors, dumpster, hydrant, and tanks	30	EA	525.00	15,750	395.00	11,850	920.00	27,600
6'0" stained wood cedar boards decorative fencing, posts and bases at fuel oil, propane tanks, and dumpster (assumed)	80	LF	52.50	4,200	22.50	1,800	75.00	6,000
10'0"x8'0" gate	1	EA	1150.00	1,150	650.00	650	1800.00	1,800
8'0"x8'0" gate	1	EA	925.00	925	540.00	540	1465.00	1,465

SITE FURNISHINGS

Seat wall mounted interpretive sign panels	3	EA	780.00	2,340	260.00	780	1040.00	3,120
5-slot bike rack	1	EA	730.00	730	190.00	190	920.00	920
20" wide x 72" fixed bench	1	EA	870.00	870	130.00	130	1000.00	1,000

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01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
014 - Site Improvements			\$	\$	\$	\$	\$	\$

SITE FURNISHINGS (Continued)

18" square x 36" trash receptacles (assumed)	2	EA	675.00	1,350	95.00	190	770.00	1,540
25'0" flag poles and bases	2	EA	2350.00	4,700	850.00	1,700	3200.00	6,400
18'0" high x 60" diameter concrete base for bell structure	1	EA	650.00	650	350.00	350	1000.00	1,000
Bell and hanger assembly (allowance)	1	EA	2500.00	2,500	1000.00	1,000	3500.00	3,500

LANDSCAPING

Trees with Stakes and Guy Wires

6'0" tall Colorado spruce	12	EA	285.00	3,420	235.00	2,820	520.00	6,240
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Shrubs

48" tall hedge cotoneaster in #5 container	54	EA	27.00	1,458	23.00	1,242	50.00	2,700
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Miscellaneous

3" bark mulch at beds	600	SF	0.55	330	0.40	240	0.95	570
(3) 2"x2"x2" wood stakes at trees	80	LF	1.00	80	3.50	280	4.50	360
1" polypropylene webbing at trees, 1/3 height	12	EA	28.00	336	35.00	420	63.00	756

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01 - SITE WORK 014 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

LANDSCAPING (Continued)

Miscellaneous (Continued)

Average 12" deep topsoil in planting beds (600 SF)	27	CY	32.00	864	8.00	216	40.00	1,080
4" topsoil at new lawn seeded areas	1,015	CY	32.00	32,480	8.50	8,628	40.50	41,108
Type A: Lawn mix grass seeding	38.00	MSF	105.00	3,990	285.00	10,830	390.00	14,820
Type B: No mow grass seeding	27.21	MSF	85.00	2,313	250.00	6,803	335.00	9,116
1-year landscape maintenance and warranty	1	LOT	500.00	500	1500.00	1,500	2000.00	2,000
SUBTOTAL:				\$ 375,641		\$ 214,854		\$ 590,495
Labor Premium Time	16.70%					35,881		35,881
SUBTOTAL:				\$ 375,641		\$ 250,735		\$ 626,376
Subcontractor's Overhead and Profit on Material and Labor	20.00%			75,128		50,147		125,275

TOTAL ESTIMATED COST:				\$ 450,769		\$ 300,882		\$ 751,651
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01 - SITE WORK	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	
015 - Site Mechanical			\$	\$	\$	\$	\$	\$

WATER

6" diameter corrosion resistant DIP water line	830	LF	32.00	26,560	22.20	18,426	54.20	44,986
6" diameter DIP vertical pipe	20	LF	32.00	640	25.00	500	57.00	1,140
6" gate valves	2	EA	875.00	1,750	335.00	670	1210.00	2,420
12"x6"x12" tee	1	EA	285.00	285	180.00	180	465.00	465
6" bends with restraint joints	3	EA	225.00	675	170.00	510	395.00	1,185
6" couplings/joints	42	EA	225.00	9,450	170.00	7,140	395.00	16,590
6" building connection and sleeve	1	EA	195.00	195	220.00	220	415.00	415
6" live tap at existing including fee	1	EA	4500.00	4,500	850.00	850	5350.00	5,350
10" live tap at existing including fee	1	EA	5250.00	5,250	1050.00	1,050	6300.00	6,300
Concrete thrust blocks	4	EA	160.00	640	120.00	480	280.00	1,120
Test and disinfect piping	1	LOT	175.00	175	950.00	950	1125.00	1,125
6" fire hydrant assembly	1	EA	2875.00	2,875	1650.00	1,650	4525.00	4,525
Excavate, trench and stockpile (10'0" deep)	3,074	CY			7.00	21,518	7.00	21,518
Bedding material	150	CY	45.00	6,750	8.50	1,275	53.50	8,025

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
015 - Site Mechanical			\$	\$	\$	\$	\$	\$

WATER (Continued)

30" deep NFS fill, compacted	1,000	CY	32.00	32,000	8.00	8,000	40.00	40,000
Stockpiled backfill, compacted	2,538	CY			8.00	20,304	8.00	20,304
Dispose surplus off site	536	CY			8.50	4,556	8.50	4,556
6" PVC marker tape	830	LF	0.52	432	0.33	274	0.85	706
Allowance for shoring (50% of trenching)	415	LF	9.75	4,046	6.00	2,490	15.75	6,536
Dewatering allowance (10% of excavation)	307	CY	7.30	2,241	3.50	1,075	10.80	3,316

SEWER

2" diameter HDPE sewer force main	230	LF	2.80	644	4.60	1,058	7.40	1,702
2" diameter HDPE vertical pipe	10	LF	2.80	28	4.80	48	7.60	76
2" fittings with restraint joints	4	EA	18.50	74	52.50	210	71.00	284
2" couplings	12	EA	14.50	174	40.00	480	54.50	654
6" diameter DIP sewer line	70	LF	21.60	1,512	22.00	1,540	43.60	3,052
6" fittings/couplings	7	EA	225.00	1,575	170.00	1,190	395.00	2,765
6"x4"x6" connection to existing sewer line including connection fee	1	EA	2150.00	2,150	770.00	770	2920.00	2,920

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	
015 - Site Mechanical			\$	\$	\$	\$	\$	\$

SEWER (Continued)

6" yard cleanout	1	EA	255.00	255	310.00	310	565.00	565
48" diameter x 96" deep manhole, cover and frame	1	EA	3250.00	3,250	1750.00	1,750	5000.00	5,000
Lift station assembly	1	EA	32500.00	32,500	4500.00	4,500	37000.00	37,000
6" building connection and sleeve	1	EA	148.00	148	165.00	165	313.00	313
6" manhole/cleanout connections	2	EA	98.00	196	120.00	240	218.00	436
Excavate, trench and stockpile	1,000	CY			7.00	7,000	7.00	7,000
2" rigid insulation where required	200	SF	0.98	196	0.50	100	1.48	296
Bedding material	50	CY	45.00	2,250	8.50	425	53.50	2,675
30" deep NFS fill compacted	250	CY	32.00	8,000	8.00	2,000	40.00	10,000
Stockpiled backfill, compacted	900	CY			8.00	7,200	8.00	7,200
Dispose surplus off site	100	CY			8.50	850	8.50	850
6" PVC marker tape	300	LF	0.52	156	0.33	99	0.85	255
Pressure test piping	1	LOT	100.00	100	600.00	600	700.00	700
Allowance for shoring (50% of trenching)	200	LF	9.75	1,950	6.00	1,200	15.75	3,150

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
015 - Site Mechanical			\$	\$	\$	\$	\$	\$

SEWER (Continued)

Dewatering allowance (10% of excavation)	100	CY	7.30	730	3.50	350	10.80	1,080
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PROPANE GAS

Note: Building supply lines, connections, and propane tanks (2) by propane company.

STORM DRAINS

6" rain leader cleanout	1	EA	345.00	345	380.00	380	725.00	725
6" connections to cleanouts	2	EA	70.00	140	95.00	190	165.00	330
6" connection to building including sleeve	1	EA	185.00	185	215.00	215	400.00	400
6" HDPE rain leader piping with heat trace	100	LF	5.70	570	4.60	460	10.30	1,030
18" CPEP storm drain piping to manholes	610	LF	21.00	12,810	7.90	4,819	28.90	17,629
6" couplings and joints	5	EA	45.00	225	60.00	300	105.00	525
18" couplings and joints	31	EA	65.00	2,015	75.00	2,325	140.00	4,340
Storm drain catch basins with inlet grate	9	EA	1325.00	11,925	825.00	7,425	2150.00	19,350
18" connections to existing pipe including fee	2	EA	2750.00	5,500	800.00	1,600	3550.00	7,100
Connection to manholes and catch basins	12	EA	80.00	960	85.00	1,020	165.00	1,980

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
015 - Site Mechanical			\$	\$	\$	\$	\$	\$

STORM DRAINS (Continued)

Test piping	1	LOT	100.00	100	600.00	600	700.00	700
Excavate, trench and stockpile	947	CY			7.00	6,629	7.00	6,629
Bedding material	70	CY	45.00	3,150	8.50	595	53.50	3,745
30" deep NFS fill at paved areas, compacted	100	CY	32.00	3,200	8.00	800	40.00	4,000
Stockpiled backfill	932	CY			8.00	7,456	8.00	7,456
Dispose surplus	15	CY			8.50	128	8.50	128
6" PVC marker tapes	710	LF	0.52	369	0.33	234	0.85	603

BUILDING FUEL OIL SYSTEM

2,500 gallon double wall fuel tank complete with gauges, alarms, vents, etc.	1	EA	18500.00	18,500	3700.00	3,700	22200.00	22,200
Fuel for testing system	300	GAL	4.15	1,245			4.15	1,245
3/4" fuel oil supply and 1" fuel oil return piping inside 4" double containment pipe	40	LF	19.70	788	23.50	940	43.20	1,728
3/4" to 1" tank connections and valves	2	EA	85.00	170	110.00	220	195.00	390
4" building connection and sleeve	1	EA	98.00	98	125.00	125	223.00	223

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 015 - Site Mechanical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

BUILDING FUEL OIL SYSTEM (Continued)

Trenching and backfill including marker tape	40	LF	4.80	192	12.50	500	17.30	692
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TRUCK FUELING STATION

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SUBTOTAL:				\$ 216,839		\$ 164,864		\$ 381,703
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Labor Premium Time	16.70%					27,532		27,532
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SUBTOTAL:				\$ 216,839		\$ 192,396		\$ 409,235
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Subcontractor's Overhead and Profit on Material and Labor	20.00%			43,368		38,479		81,847
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TOTAL ESTIMATED COST:				\$ 260,207		\$ 230,875		\$ 491,082
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 016 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

DEMOLITION

None

POWER

Remove overhead electric lines	490	LF			3.80	1,862	3.80	1,862
Remove power/light poles	4	EA			450.00	1,800	450.00	1,800
225 KVA transformer	1	EA						By Utility Company
Primary power to transformer	330	LF						By Utility Company
800 amp secondary buried service to building	70	LF	40.00	2,800	30.00	2,100	70.00	4,900
3/4"x10'0" ground rod and copper ground wire	2	EA	95.00	190	220.00	440	315.00	630
Transformer connections and bushings	2	EA	140.00	280	160.00	320	300.00	600
ATS connection	1	EA	100.00	100	250.00	250	350.00	350
Equipment grounding	1	LOT	200.00	200	700.00	700	900.00	900
Test and tag	1	LOT	50.00	50	350.00	350	400.00	400

AREA LIGHTING

7" diameter x 15'0" long driven pipe pile foundations	12	EA	635.00	7,620	730.00	8,760	1365.00	16,380
20'0" steel poles with fixture mounted arms	6	EA	1520.00	9,120	620.00	3,720	2140.00	12,840

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 016 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

AREA LIGHTING (Continued)

14'0" steel poles with fixture mounted arms	6	EA	1140.00	6,840	510.00	3,060	1650.00	9,900
16"x16"x1 1/2" thick steel pole mounting plates, top	12	EA	118.00	1,416	102.00	1,224	220.00	2,640
1 1/8"x5" bolts and nuts fixed to slotted holes	48	EA	4.45	214	17.50	840	21.95	1,054
Type T: LED fixtures with driver	12	EA	1480.00	17,760	335.00	4,020	1815.00	21,780
LED in grade flood lights for flag poles	2	EA	525.00	1,050	210.00	420	735.00	1,470
1" diameter RGS conduit at pole bases	320	LF	4.40	1,408	10.15	3,248	14.55	4,656
1" diameter PVC buried conduits	1,070	LF	2.55	2,729	5.30	5,671	7.85	8,400
#10 copper wires (3)	7,000	LF	0.52	3,640	0.85	5,950	1.37	9,590
Trench and backfill	1,070	LF	4.50	4,815	8.50	9,095	13.00	13,910
6" PVC marker tapes	1,070	LF	0.52	556	0.33	353	0.85	909
Test and tag	1	LOT	130.00	130	520.00	520	650.00	650

HEADBOLT PLUG-INS (2)

4" diameter x 78" RGS posts buried 30" deep	2	EA	155.00	310	120.00	240	275.00	550
4" diameter O-Z Gedney post caps	2	EA	28.00	56	43.00	86	71.00	142

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 016 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEADBOLT PLUG-INS (2) (Continued)

24"x18"x18" deep quazite junction boxes with locking cover	2	EA	520.00	1,040	275.00	550	795.00	1,590
GFCI-WR receptacle with (2) active and (2) blank covers	2	EA	73.00	146	95.00	190	168.00	336
1" diameter RGS conduits	80	LF	4.50	360	10.20	816	14.70	1,176
#8 wiring (5)	400	LF	0.55	220	0.90	360	1.45	580
Panel and receptacle connections	2	EA	5.50	11	20.00	40	25.50	51
Test and tag	1	LOT	50.00	50	200.00	200	250.00	250

STANDBY DIESEL GENERATOR

150 KW diesel generator with self-contained fuel tank in arctic enclosure	1	EA	52500.00	52,500	7500.00	7,500	60000.00	60,000
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Note: Remote annunciator, ATS, disconnect, etc. with building systems.

14"x24"x18" deep junction box with lockable cover	1	EA	390.00	390	250.00	250	640.00	640
3" diameter RGS buried conduit	100	LF	24.50	2,450	26.40	2,640	50.90	5,090
500 KCMIL conductors (5)	500	LF	13.47	6,735	5.07	2,535	18.54	9,270

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 016 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

STANDBY DIESEL GENERATOR (Continued)

#1 ground wire (1)	120	LF	2.36	283	1.66	199	4.02	482
3/4"x10'0" ground rods and copper ground wire	2	EA	95.00	190	220.00	440	315.00	630
Generator grounding	1	LOT	150.00	150	300.00	300	450.00	450
Test and commission system	1	LOT	100.00	100	500.00	500	600.00	600

MISCELLANEOUS

3/4"x10'0" ground rods and copper wire for training tower	2	EA	95.00	190	220.00	440	315.00	630
Tower grounding	1	LOT	100.00	100	200.00	200	300.00	300

FLASHING WARNING SIGNALS FOR FIRE TRUCKS CROSSING

Flashing signals, power and wiring on Hazelet Avenue and West Pioneer Drive	4	EA	1750.00	7,000	1250.00	5,000	3000.00	12,000
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COMMUNICATIONS

(3) 2" diameter PVC empty conduit with pull cords	210	LF	5.30	1,113	6.50	1,365	11.80	2,478
Trenching and backfill including bedding	20	CY	4.50	90	8.50	170	13.00	260
6" PVC marker tapes (3)	210	LF	0.52	109	0.33	69	0.85	178

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

01 - SITE WORK 016 - Site Electrical	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

COMMUNICATIONS (Continued)

Telephone utility cable (1)	70	LF						By Utility Co.
25 pair Cat 5e telephone cables (2)	70	LF						By Utility Co.
SUBTOTAL:				\$ 134,511		\$ 78,793		\$ 213,304
Labor Premium Time	16.70%					13,158		13,158
SUBTOTAL:				\$ 134,511		\$ 91,951		\$ 226,462
Subcontractor's Overhead and Profit on Material and Labor	20.00%			26,902		18,390		45,292

TOTAL ESTIMATED COST:				\$ 161,413		\$ 110,341		\$ 271,754
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA
35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
021 - Standard Foundations			\$	\$	\$	\$	\$	\$
Excavate, backfill and dispose for foundations and isolated bases in prepared pads	680	CY			10.00	6,800	10.00	6,800
3,000 psi concrete bases (56)	130	CY	320.00	41,600	90.00	11,700	410.00	53,300
3,000 psi concrete strip footings	34	CY	320.00	10,880	85.00	2,890	405.00	13,770
Concrete pilasters (30)	15	CY	320.00	4,800	95.00	1,425	415.00	6,225
8" concrete foundation walls	51	CY	320.00	16,320	90.00	4,590	410.00	20,910
Concrete waste (5%)	12	CY	320.00	3,840	60.00	720	380.00	4,560
Pump concrete	242	CY	50.00	12,100			50.00	12,100
Bar reinforcement in footings and bases	16,400	LBS	0.80	13,120	0.70	11,480	1.50	24,600
Bar reinforcement in foundation walls and pilasters	8,250	LBS	0.80	6,600	0.75	6,188	1.55	12,788
MISCELLANEOUS								
Formwork to bases (56)	2,152	SF	2.10	4,519	5.20	11,190	7.30	15,709
Formwork to strip footings	900	SF	1.50	1,350	4.80	4,320	6.30	5,670
Formwork to pilasters (30)	800	SF	2.80	2,240	6.80	5,440	9.60	7,680
Formwork for foundation walls	4,067	SF	2.60	10,574	6.00	24,402	8.60	34,976
Membrane waterproofing to foundations	2,614	SF	1.95	5,097	2.70	7,058	4.65	12,155

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

02 - SUBSTRUCTURE 021 - Standard Foundations	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MISCELLANEOUS (Continued)

2" rigid insulation to foundation walls	2,033	SF	1.05	2,135	0.65	1,321	1.70	3,456
12"x14 gauge metal flashing	581	LF	3.80	2,208	2.25	1,307	6.05	3,515
3/4"x16" embedded anchor bolts at base plates (41)	164	EA	11.50	1,886	24.50	4,018	36.00	5,904
1 1/4"x20" embedded anchor bolts at base plates (16)	64	EA	35.80	2,291	30.00	1,920	65.80	4,211
1 1/2" non-shrink grout at base plates	70	SF	17.50	1,225	18.00	1,260	35.50	2,485
SUBTOTAL:				\$ 142,785		\$ 108,029		\$ 250,814
Labor Premium Time	16.70%					18,041		18,041

TOTAL ESTIMATED COST:				\$ 142,785		\$ 126,070		\$ 268,855
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA
35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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02 - SUBSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
022 - Slab on Grade			\$	\$	\$	\$	\$	\$
4" D1 subbase, compacted	212	CY	40.00	8,480	8.50	1,802	48.50	10,282
10 mil vapor barrier	13,958	SF	0.10	1,396	0.18	2,512	0.28	3,908
4,000 psi x 8" thick concrete slabs on grade at apparatus bays (6,477 SF)	161	CY	340.00	54,740	75.00	12,075	415.00	66,815
4,000 psi x 4" thick concrete slabs on grade elsewhere (7,481 SF)	95	CY	340.00	32,300	72.50	6,888	412.50	39,188
Thickened slabs	8	CY	340.00	2,720	80.00	640	420.00	3,360
Extra for trench drains	10	CY	340.00	3,400	85.00	850	425.00	4,250
Concrete waste (5%)	13	CY	340.00	4,420	60.00	780	400.00	5,200
Pump concrete	287	CY	50.00	14,350			50.00	14,350
Cure and finish slabs	13,958	SF	0.30	4,187	1.50	20,937	1.80	25,124
#3 and #4 bar reinforcement to slabs	19,180	LBS	0.80	15,344	0.70	13,426	1.50	28,770
1/8"x1/4" deep construction joints with filler	13,958	SF	0.15	2,094	0.35	4,885	0.50	6,979
<u>MISCELLANEOUS</u>								
2" rigid insulation at apparatus bay and bathrooms heated slabs	6,720	SF	1.05	7,056	0.55	3,696	1.60	10,752
Formwork to trench drains (6)	780	SF	1.80	1,404	2.60	2,028	4.40	3,432

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

02 - SUBSTRUCTURE 022 - Slab on Grade	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MISCELLANEOUS (Continued)

6"x90" concrete filled pipe bollards with 18"x36" deep concrete bases painted yellow above grade at overhead doors	20	EA	525.00	10,500	395.00	7,900	920.00	18,400
10"x2" deep bar grate drain cover with embedded angle framing (6)	260	LF	52.50	13,650	12.20	3,172	64.70	16,822
Special inspections for all concrete	1	LOT	2500.00	2,500			2500.00	2,500
SUBTOTAL:				\$ 178,541		\$ 81,591		\$ 260,132
Labor Premium Time	16.70%					13,626		13,626

TOTAL ESTIMATED COST:				\$ 178,541		\$ 95,217		\$ 273,758
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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03 - SUPERSTRUCTURE 031 - Floor Construction	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

Note: Columns and base plates with roof.

SECOND FLOOR FRAMING

W-beams	41,397	LBS	1.80	74,515	1.10	45,537	2.90	120,052
4"x6"x5/16" bent plate at deck edging (440 LF)	4,565	LBS	2.10	9,587	1.25	5,706	3.35	15,293
K-type metal joists (assumed)	4,480	LBS	2.25	10,080	1.05	4,704	3.30	14,784
Miscellaneous plates, angles, closures and connections (12.50%)	6,305	LBS	2.10	13,241	1.50	9,458	3.60	22,699
1 1/2" deep Type B galvanized metal decking at second floor	4,480	SF	3.60	16,128	1.20	5,376	4.80	21,504
Overall 4" concrete topping (including waste)	47	CY	340.00	15,980	85.00	3,995	425.00	19,975
Pumping	47	CY	50.00	2,350			50.00	2,350
Cure and finish topping	4,480	SF	0.30	1,344	1.50	6,720	1.80	8,064
Mesh reinforcement	4,480	SF	0.58	2,598	0.40	1,792	0.98	4,390
SUBTOTAL:				\$ 145,823		\$ 83,288		\$ 229,111
Labor Premium Time	16.70%					13,909		13,909
TOTAL ESTIMATED COST:				\$ 145,823		\$ 97,197		\$ 243,020

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA
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03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
032 - Roof Construction								
12"x12"x1" base plates	21	EA	80.00	1,680	60.00	1,260	140.00	2,940
14"x14"x1" base plates	20	EA	95.00	1,900	65.00	1,300	160.00	3,200
16"x16"x1" base plates	16	EA	115.00	1,840	70.00	1,120	185.00	2,960
HSS steel columns (41)	41,000	LBS	1.95	79,950	1.20	49,200	3.15	129,150
W-beam columns (16)	19,200	LBS	1.80	34,560	1.10	21,120	2.90	55,680
HSS steel bracings	12,000	LBS	1.95	23,400	1.25	15,000	3.20	38,400
W-beams at main roofs	43,794	LBS	1.80	78,829	1.10	48,173	2.90	127,002
W-beams at low roofs and mezzanine roof	15,890	LBS	1.80	28,602	1.10	17,479	2.90	46,081
C-channel overhead door jambs	10,000	LBS	1.80	18,000	1.20	12,000	3.00	30,000
W-beams at canopies (no details, 1,100 SF)	8,800	LBS	1.80	15,840	1.20	10,560	3.00	26,400
C-channel at canopies (no details, 1,100 SF)	4,000	LBS	1.80	7,200	1.30	5,200	3.10	12,400
LH metal joists	41,269	LBS	2.25	92,855	1.05	43,332	3.30	136,187
Miscellaneous plates, angles, bolts and connections (12.50%)	22,508	LBS	2.10	47,267	1.50	33,762	3.60	81,029
1 1/2" Type B galvanized metal decking at canopies	1,100	SF	3.60	3,960	1.25	1,375	4.85	5,335

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03 - SUPERSTRUCTURE 032 - Roof Construction	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
1 1/2" Type B galvanized metal decking at roofs	14,000	SF	3.60	50,400	1.25	17,500	4.85	67,900
<u>MISCELLANEOUS</u>								
30" high insulated mechanical curb assembly (4)	50	LF	26.50	1,325	15.00	750	41.50	2,075
30 ton crane and operator (for all structures)	3	MOS	17500.00	52,500	5000.00	15,000	22500.00	67,500
Special inspections and weld tests for all steel structures	1	LOT	8500.00	8,500			8500.00	8,500
Temporary shoring of structures	18,650	SF	0.20	3,730	0.35	6,528	0.55	10,258
SUBTOTAL:				\$ 552,338		\$ 300,659		\$ 852,997
Labor Premium Time	16.70%					50,210		50,210
TOTAL ESTIMATED COST:								
				\$ 552,338		\$ 350,869		\$ 903,207

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03 - SUPERSTRUCTURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
033 - Stair Construction			\$	\$	\$	\$	\$	\$
Single flight steel stair to second floor (1)	105	SF	56.50	5,933	22.00	2,310	78.50	8,243
Two flights steel stair to fan room	216	SF	56.50	12,204	22.00	4,752	78.50	16,956
1 1/2" diameter pipe railings and posts at stairs and mezzanine	170	LF	89.00	15,130	25.00	4,250	114.00	19,380
SUBTOTAL:				\$ 33,267		\$ 11,312		\$ 44,579
Labor Premium Time	16.70%					1,889		1,889
TOTAL ESTIMATED COST:				\$ 33,267		\$ 13,201		\$ 46,468

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04 - EXTERIOR CLOSURE	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
041 - Exterior Walls			\$	\$	\$	\$	\$	\$
6" metal stud framing and tracks	13,470	SF	1.30	17,511	1.50	20,205	2.80	37,716
6" batt insulation	13,470	SF	0.70	9,429	0.40	5,388	1.10	14,817
2" rigid insulation at precast concrete walls	2,980	SF	0.98	2,920	0.60	1,788	1.58	4,708
Self-adhered air barrier	10,490	SF	0.85	8,917	0.75	7,868	1.60	16,785
5/8" exterior gypsum sheathing	12,270	SF	0.55	6,749	1.10	13,497	1.65	20,246
1/2" cement backer board at roof side of parapets	1,200	SF	1.33	1,596	1.65	1,980	2.98	3,576
6 mil vapor retarder	12,270	SF	0.08	982	0.12	1,472	0.20	2,454
5/8" gypsum wall board	12,270	SF	0.65	7,976	1.60	19,632	2.25	27,608
6" reinforced precast concrete wall panels, stained and patterned	2,980	SF	21.00	62,580	12.50	37,250	33.50	99,830
3" R-21 prefinished metal wall panels and trims	10,490	SF	18.50	194,065	5.20	54,548	23.70	248,613
5/8"x9'0" high pressure treated plywood sheathing at apparatus bay	1,090	SF	1.55	1,690	1.10	1,199	2.65	2,889
9'0" high FRP and trims at apparatus bay	1,090	SF	2.80	3,052	2.70	2,943	5.50	5,995
12" high 'Fire Station 1' letters	12	EA	115.00	1,380	55.00	660	170.00	2,040
Prefinished soffit panels	210	SF	4.50	945	4.00	840	8.50	1,785

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04 - EXTERIOR CLOSURE 041 - Exterior Walls	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Prefinished soffit panels at canopy roofs	1,100	SF	4.50	4,950	3.50	3,850	8.00	8,800
Caulking and sealants at siding and soffits	11,590	SF	0.08	927	0.30	3,477	0.38	4,404
SUBTOTAL:				\$ 325,669		\$ 176,597		\$ 502,266
Labor Premium Time	16.70%					29,492		29,492

TOTAL ESTIMATED COST:	\$ 325,669	\$ 206,089	\$ 531,758
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04 - EXTERIOR CLOSURE 042 - Exterior Doors and Windows	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

14'0"x14'0" overhead insulated aluminum sectional doors with glazing and electrically operated motor	4	EA	9250.00	37,000	2450.00	9,800	11700.00	46,800
14'0"x14'0" insulated four-fold sectional doors with glazing and electrically operated motor	6	EA	18750.00	112,500	3150.00	18,900	21900.00	131,400
3'0"x7'0" hollow metal insulated door frames	8	EA	180.00	1,440	110.00	880	290.00	2,320
3'0"x7'0" aluminum single door assembly	1	EA	1550.00	1,550	325.00	325	1875.00	1,875
3'0"x7'0" insulated hollow metal flush doors	6	EA	460.00	2,760	80.00	480	540.00	3,240
3'0"x7'0" insulated hollow metal flush doors with full glazing	2	EA	780.00	1,560	90.00	180	870.00	1,740
Single door hardware sets	5	SETS	785.00	3,925	390.00	1,950	1175.00	5,875
Single door hardware sets with panic bars	4	SETS	1550.00	6,200	750.00	3,000	2300.00	9,200
3'0"x5'0" aluminum egress windows	7	EA	710.00	4,970	180.00	1,260	890.00	6,230
Aluminum windows (13)	445	SF	55.00	24,475	12.25	5,451	67.25	29,926
Aluminum storefront	418	SF	68.00	28,424	14.50	6,061	82.50	34,485
Caulking and sealants, two sides	2,288	LF	0.70	1,602	2.10	4,805	2.80	6,407
Drip edge head flashings	138	LF	2.50	345	2.00	276	4.50	621

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04 - EXTERIOR CLOSURE 042 - Exterior Doors and Windows	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Prefinished flashings	1,085	LF	2.00	2,170	1.70	1,845	3.70	4,015
1"x solid surface window sills	120	LF	9.50	1,140	4.50	540	14.00	1,680
SUBTOTAL:				\$ 230,061		\$ 55,753		\$ 285,814
Labor Premium Time	16.70%					9,311		9,311
TOTAL ESTIMATED COST:				\$ 230,061		\$ 65,064		\$ 295,125

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05 - ROOF SYSTEMS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
051 - Roofing			\$	\$	\$	\$	\$	\$
1/2" Dens deck	14,000	SF	0.94	13,160	1.10	15,400	2.04	28,560
6 mil self-adhered vapor barrier at all roofs	14,000	SF	0.30	4,200	0.45	6,300	0.75	10,500
(2) layers 4" rigid insulation	14,000	SF	4.70	65,800	1.80	25,200	6.50	91,000
1 1/2" tapered insulation at flat roofs	14,000	SF	1.10	15,400	0.85	11,900	1.95	27,300
1/2" protection board	14,000	SF	1.05	14,700	0.90	12,600	1.95	27,300
5-ply built-up roof system	14,000	SF	3.10	43,400	2.70	37,800	5.80	81,200
5-ply built-up roof system to parapet, side walls	1,585	SF	3.10	4,914	2.95	4,676	6.05	9,590
Fire treated cant at parapets	600	LF	0.95	570	1.20	720	2.15	1,290
Parapet coping	600	LF	5.70	3,420	3.50	2,100	9.20	5,520
VTR flashings (assumed)	6	EA	42.50	255	38.00	228	80.50	483
Roof/wall flashing	361	LF	3.50	1,264	3.20	1,155	6.70	2,419
Mechanical curb flashing	50	LF	12.00	600	7.50	375	19.50	975
Drip edge flashing at high roof	105	LF	2.50	263	2.50	263	5.00	526
Work/flashings around roof drains and overflow drains	10	EA	65.00	650	60.00	600	125.00	1,250

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05 - ROOF SYSTEMS 051 - Roofing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

CANOPIES (6)

1/2" exterior grade plywood screwed to metal decking	1,100	SF	1.30	1,430	1.10	1,210	2.40	2,640
1/2" exterior grade plywood, 12" deep at fascia	337	LF	1.30	438	2.00	674	3.30	1,112
1 1/2" tapered insulation	1,100	SF	1.05	1,155	0.90	990	1.95	2,145
5-ply built-up roof system over roof and fascia	1,300	SF	3.10	4,030	2.80	3,640	5.90	7,670
5-ply built-up roof system up walls	325	SF	3.10	1,008	3.05	991	6.15	1,999
12" metal fascia	337	LF	8.50	2,865	4.40	1,483	12.90	4,348
Drip flashing	337	LF	1.80	607	2.10	708	3.90	1,315
Roof and wall flashing	324	LF	3.50	1,134	3.20	1,037	6.70	2,171
Work/flashings around roof drains	4	EA	65.00	260	60.00	240	125.00	500

MISCELLANEOUS

Temporary fall protection railings	600	LF	3.50	2,100	2.70	1,620	6.20	3,720
SUBTOTAL:				\$ 183,623		\$ 131,910		\$ 315,533
Labor Premium Time	16.70%					22,029		22,029

TOTAL ESTIMATED COST:				\$ 183,623		\$ 153,939		\$ 337,562
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06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

PARTITIONS

6" CH metal studs at elevator shaft	1,368	SF	1.85	2,531	1.70	2,326	3.55	4,857
6" metal studs, 16" o/c	6,318	SF	1.50	9,477	1.50	9,477	3.00	18,954
3 5/8" metal studs, 16" o/c	9,549	SF	1.25	11,936	1.30	12,414	2.55	24,350
6" acoustical insulation	6,318	SF	0.80	5,054	0.60	3,791	1.40	8,845
3 1/2" acoustical insulation	9,549	SF	0.60	5,729	0.50	4,775	1.10	10,504
5/8" Type X gypboard	21,734	SF	0.65	14,127	1.50	32,601	2.15	46,728
(2) layers 5/8" Type X gypboard	10,000	SF	1.10	11,000	2.80	28,000	3.90	39,000
1" core board at elevator shaft	1,368	SF	1.25	1,710	1.75	2,394	3.00	4,104
Add for moisture resistant gypboard walls and ceilings	5,000	SF	0.20	1,000			0.20	1,000
2"x blocking for backing	1,000	LF	1.20	1,200	2.28	2,280	3.48	3,480

DOORS

3'0"x7'0" hollow metal frames	38	EA	105.00	3,990	75.00	2,850	180.00	6,840
6'0"x7'0" hollow metal frames	2	EA	120.00	240	95.00	190	215.00	430
3'0"x7'0" hollow metal single doors	20	EA	440.00	8,800	65.00	1,300	505.00	10,100

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06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
061 - Partitions and Doors								

DOORS (Continued)

3'0"x7'0" hollow metal double doors	1	PR	840.00	840	130.00	130	970.00	970
3'0"x7'0" hollow metal wood single doors with vision panel	18	EA	560.00	10,080	75.00	1,350	635.00	11,430
3'0"x7'0" hollow metal double doors with vision panel	1	PR	1040.00	1,040	150.00	150	1190.00	1,190

DOOR HARDWARE

Double door hardware sets	2	SETS	1280.00	2,560	850.00	1,700	2130.00	4,260
Single door hardware sets	30	SETS	680.00	20,400	350.00	10,500	1030.00	30,900
Single door hardware set with panic bars	8	SETS	1350.00	10,800	650.00	5,200	2000.00	16,000
Add for rated doors and frames	20	EA	100.00	2,000			100.00	2,000
Add for card readers	6	EA	750.00	4,500	350.00	2,100	1100.00	6,600
Relights/sidelights in aluminum frames	40	SF	60.50	2,420	14.50	580	75.00	3,000

SUBTOTAL:				\$ 131,434		\$ 124,108		\$ 255,542
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Labor Premium Time	16.70%					20,726		20,726
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TOTAL ESTIMATED COST:				\$ 131,434		\$ 144,834		\$ 276,268
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06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
062 - Interior Finishes								

FLOORS

Luxury vinyl plank	2,041	SF	3.20	6,531	1.80	3,674	5.00	10,205
Sealed concrete	1,978	SF	0.50	989	1.50	2,967	2.00	3,956
Carpeting	276	SY	39.00	10,764	9.50	2,622	48.50	13,386
Walk-off carpet mat	584	SF	4.60	2,686	1.20	701	5.80	3,387
Slip resistant polished concrete finish	7,003	SF	3.50	24,511	3.75	26,261	7.25	50,772
Epoxy floor system	915	SF	1.25	1,144	2.00	1,830	3.25	2,974
Resilient sheet flooring	540	SF	3.20	1,728	1.95	1,053	5.15	2,781
Porcelain tiles	838	SF	8.50	7,123	8.55	7,165	17.05	14,288
Rubber stair treads and risers	585	SF	5.20	3,042	4.00	2,340	9.20	5,382
4" rubber base	2,239	LF	1.25	2,799	1.30	2,911	2.55	5,710
4" self cove base	300	LF	2.20	660	2.60	780	4.80	1,440
4" porcelain tile base	376	LF	6.20	2,331	7.50	2,820	13.70	5,151
Stainless steel grate	37	SF	42.50	1,573	12.50	463	55.00	2,036

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06 - INTERIOR CONSTRUCTION 062 - Interior Finishes	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

WALLS

Paint doors and frames	2,960	SF	0.30	888	1.70	5,032	2.00	5,920
Paint walls	26,400	SF	0.25	6,600	1.50	39,600	1.75	46,200
FRP and trims	1,808	SF	2.70	4,882	2.60	4,701	5.30	9,583
Stainless steel wainscot	140	SF	18.00	2,520	4.50	630	22.50	3,150
9'0" high porcelain tile	3,389	SF	8.70	29,484	8.00	27,112	16.70	56,596
9'0" high FRP and trims at apparatus bay	855	SF	2.80	2,394	2.70	2,309	5.50	4,703
5/8"x9'0" high pressure treated plywood sheathing at apparatus bay	855	SF	1.55	1,325	0.90	770	2.45	2,095
Miscellaneous wall covering (allowance)	1,000	SF	3.00	3,000	2.00	2,000	5.00	5,000

CEILINGS

5/8" gypboard ceiling system and framing, painted	2,079	SF	1.85	3,846	4.25	8,836	6.10	12,682
Suspended acoustic ceiling with seismic bracings	6,654	SF	2.85	18,964	2.70	17,966	5.55	36,930
Suspended acoustic ceiling with seismic bracings, washable	461	SF	3.20	1,475	2.85	1,314	6.05	2,789
Paint exposed structures	8,020	SF	0.28	2,246	1.55	12,431	1.83	14,677

SUBTOTAL:				\$ 143,505		\$ 178,288		\$ 321,793
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06 - INTERIOR CONSTRUCTION 062 - Interior Finishes	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Labor Premium Time	16.70%					29,774		29,774
TOTAL ESTIMATED COST:			\$ 143,505		\$ 208,062		\$ 351,567	

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06 - INTERIOR CONSTRUCTION	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
063 - Specialties								

BUILT-IN CASEWORK

24" deep base cabinets	48	LF	165.00	7,920	35.00	1,680	200.00	9,600
24" deep x 24" wide full height cabinets	22	LF	270.00	5,940	60.00	1,320	330.00	7,260
12" deep wall cabinets	20	LF	128.00	2,560	32.00	640	160.00	3,200
24" deep solid surface countertop and back splash	48	LF	160.00	7,680	40.00	1,920	200.00	9,600
24" deep wall hung solid surface countertop and backsplash	32	LF	210.00	6,720	60.00	1,920	270.00	8,640
30" deep stainless steel work benches at apparatus bay	20	LF	380.00	7,600	50.00	1,000	430.00	8,600
Benches at turn out and lockers	8	EA	175.00	1,400	85.00	680	260.00	2,080
Built-in training storage	17	LF	250.00	4,250	60.00	1,020	310.00	5,270
Wall hung solid surface counter workstations	28	LF	185.00	5,180	55.00	1,540	240.00	6,720
15"x15"x84" (2) tier metal lockers at locker rooms	11	EA	375.00	4,125	50.00	550	425.00	4,675

TOILET ACCESSORIES

Toilet paper holders	10	EA	35.00	350	28.00	280	63.00	630
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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06 - INTERIOR CONSTRUCTION	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
063 - Specialties			\$	\$	\$	\$	\$	\$

TOILET ACCESSORIES (Continued)

Bench	6	LF	39.50	237	13.00	78	52.50	315
Robe hooks	21	EA	18.00	378	14.00	294	32.00	672
24"x36" mirrors	2	EA	210.00	420	60.00	120	270.00	540
48"x72" mirrors at fitness	4	EA	420.00	1,680	110.00	440	530.00	2,120
Towel racks	7	EA	39.00	273	32.00	224	71.00	497
Paper towel dispensers	8	EA	140.00	1,120	75.00	600	215.00	1,720
Sanitary napkin disposals	5	EA	39.00	195	30.00	150	69.00	345
Waste receptacles	6	EA	190.00	1,140	75.00	450	265.00	1,590
Soap dispensers	12	EA	36.00	432	33.00	396	69.00	828
ADA toilet partitions	2	EA	1080.00	2,160	270.00	540	1350.00	2,700
Standard toilet partitions	6	EA	870.00	5,220	230.00	1,380	1100.00	6,600
18" grab bars	2	EA	36.00	72	30.00	60	66.00	132
36" grab bars	2	EA	52.00	104	40.00	80	92.00	184
48" grab bars	2	EA	60.00	120	50.00	100	110.00	220

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06 - INTERIOR CONSTRUCTION 063 - Specialties	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

TOILET ACCESSORIES (Continued)

(3) 24" grab bars at each shower	21	EA	42.00	882	35.00	735	77.00	1,617
Folding shower seat	1	EA	270.00	270	130.00	130	400.00	400
36" shower curtains and rods	7	EA	109.00	763	60.00	420	169.00	1,183
Mop rack/shelving	2	EA	78.00	156	39.00	78	117.00	234
(5) tier shelving at janitor closets (2)	20	LF	36.00	720	6.95	139	42.95	859
Door signage	40	EA	35.00	1,400	19.00	760	54.00	2,160

MISCELLANEOUS

Fire extinguishers, bracket mounted	3	EA	75.00	225	25.00	75	100.00	300
Fire extinguishers, cabinet mounted	4	EA	167.00	668	80.00	320	247.00	988
8'0"x4'0" white board	1	EA	1075.00	1,075	130.00	130	1205.00	1,205
4'0"x4'0" tack boards	2	EA	225.00	450	105.00	210	330.00	660
Miscellaneous specialties allowance	1	LOT	2000.00	2,000	500.00	500	2500.00	2,500

SUBTOTAL:				\$ 75,885		\$ 20,959		\$ 96,844
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Labor Premium Time	16.70%					3,500		3,500
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TOTAL ESTIMATED COST:				\$ 75,885		\$ 24,459		\$ 100,344
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
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07 - CONVEYING SYSTEMS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
6'0"x8'0" hydraulic one-stop elevator and equipment	1	EA	54500.00	54,500	28000.00	28,000	82500.00	82,500
Inspections and permits	1	LOT	2500.00	2,500			2500.00	2,500
SUBTOTAL:				\$ 57,000		\$ 28,000		\$ 85,000
Labor Premium Time	16.70%					4,676		4,676
SUBTOTAL:				\$ 57,000		\$ 32,676		\$ 89,676
Subcontractor's Overhead and Profit on Material and Labor	20.00%			11,400		6,535		17,935
TOTAL ESTIMATED COST:				\$ 68,400		\$ 39,211		\$ 107,611

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES

P-1: Water closets with flush valve, wall mounted, ADA	2	EA	710.00	1,420	230.00	460	940.00	1,880
P-2: Water closet with flush valves, wall mounted	6	EA	660.00	3,960	200.00	1,200	860.00	5,160
P-3: Water closet with flush valves, floor mounted	2	EA	610.00	1,220	200.00	400	810.00	1,620
P-4: Urinal with flush valves, wall mounted, ADA	2	EA	750.00	1,500	410.00	820	1160.00	2,320
P-5: Counter mounted lavatories with faucet, ADA	4	EA	465.00	1,860	190.00	760	655.00	2,620
P-6: Counter mounted lavatories with faucet, ADA	6	EA	465.00	2,790	190.00	1,140	655.00	3,930
P-7: Wall mounted lavatories with faucet, ADA	2	EA	525.00	1,050	210.00	420	735.00	1,470
P-8: Double compartment, stainless steel kitchen sink with faucet	1	EA	750.00	750	225.00	225	975.00	975
P-9: Four compartment, stainless steel SCBA sink with faucet	1	EA	850.00	850	350.00	350	1200.00	1,200
P-10: Janitor sinks	3	EA	645.00	1,935	205.00	615	850.00	2,550

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (Continued)

P-11: Double compartment, stainless steel decontamination sink with faucet	1	EA	610.00	610	210.00	210	820.00	820
P-12: Shower valve with arm, controls and hand shower, ADA	1	EA	370.00	370	170.00	170	540.00	540
P-13: Shower valves with arm, controls and hand shower	6	EA	370.00	2,220	170.00	1,020	540.00	3,240
P-14: Single level stainless steel drinking fountain with bottle fill (assumed)	1	EA	1250.00	1,250	250.00	250	1500.00	1,500
P-15: Eye wash/shower (assumed)	1	EA	870.00	870	220.00	220	1090.00	1,090
P-16: Clothes washer box with water hammer arrestor	1	EA	72.00	72	85.00	85	157.00	157
HB-1: 3/4" non-freeze hose bibs (exterior)	5	EA	125.00	625	150.00	750	275.00	1,375
HB-2: 3/4" non-freeze hose bibs (interior)	3	EA	112.00	336	70.00	210	182.00	546
WHR-1: 50'0" water hose reels	3	EA	150.00	450	90.00	270	240.00	720
Fire hose connection hose bibs (interior)	3	EA	270.00	810	165.00	495	435.00	1,305
FD-1: 3" diameter floor drains	10	EA	125.00	1,250	130.00	1,300	255.00	2,550
FD-2: 4" diameter floor drain	1	EA	150.00	150	145.00	145	295.00	295

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 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (Continued)

FD-3: 2" diameter floor drains	7	EA	112.00	784	120.00	840	232.00	1,624
TD-1: Trench drains	6	EA	180.00	1,080	145.00	870	325.00	1,950
Garbage disposal	1	EA	195.00	195	120.00	120	315.00	315

EQUIPMENT

HWG-1: 67 gallon, fuel oil fired water heater	1	EA	3250.00	3,250	850.00	850	4100.00	4,100
8" diameter flue	40	LF	25.00	1,000	24.00	960	49.00	1,960
2" thick insulation	15	SF	2.10	32	5.00	75	7.10	107
Chimney top with storm collar	1	EA	145.00	145	110.00	110	255.00	255
ET-3: 14.4 gallon compression tank	1	EA	220.00	220	75.00	75	295.00	295
SI-1: 314 GPM sand interceptor with traffic grate	1	EA	7500.00	7,500	1500.00	1,500	9000.00	9,000
HCP-1: ___ GPM, ___ head, fractional HP hot water circulation pump	1	EA	550.00	550	175.00	175	725.00	725
SP-1: Elevator sump pump	1	EA	650.00	650	210.00	210	860.00	860
2" diameter water meter with remote totalizer and inlet strainer	1	EA	605.00	605	110.00	110	715.00	715

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

UNDER FLOOR PIPING

Waste and Vent

4" diameter cast iron waste and vent pipe	330	LF	37.00	12,210	22.00	7,260	59.00	19,470
3" diameter cast iron waste and vent pipe	20	LF	24.00	480	19.50	390	43.50	870
2" diameter cast iron waste and vent pipe	260	LF	21.00	5,460	18.00	4,680	39.00	10,140
4" diameter cast iron fittings	42	EA	55.00	2,310	90.00	3,780	145.00	6,090
3" diameter cast iron fittings	3	EA	40.00	120	80.00	240	120.00	360
2" diameter cast iron fittings	33	EA	30.00	990	65.00	2,145	95.00	3,135
4" diameter floor cleanouts	12	EA	166.00	1,992	76.00	912	242.00	2,904
1/2" diameter hot and cold water PEX tubing	110	LF	1.05	116	1.95	215	3.00	331
Trenching and backfill	700	LF	3.20	2,240	5.25	3,675	8.45	5,915

Storm Drain

None

ABOVE FLOOR PIPING

Waste and Vent

4" diameter ABS waste and vent pipe	110	LF	29.00	3,190	25.00	2,750	54.00	5,940
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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Waste and Vent (Continued)

3" diameter ABS waste and vent pipe	70	LF	20.00	1,400	23.00	1,610	43.00	3,010
2" diameter ABS waste and vent pipe	510	LF	10.00	5,100	20.00	10,200	30.00	15,300
1 1/2" diameter ABS waste and vent pipe	520	LF	4.40	2,288	12.10	6,292	16.50	8,580
4" diameter ABS fittings	14	EA	28.00	392	76.00	1,064	104.00	1,456
3" diameter ABS fittings	9	EA	14.00	126	60.00	540	74.00	666
2" diameter ABS fittings	64	EA	6.70	429	38.00	2,432	44.70	2,861
1 1/2" diameter ABS fittings	65	EA	10.00	650	45.00	2,925	55.00	3,575
4" diameter wall cleanout	1	EA	85.00	85	70.00	70	155.00	155
3" diameter wall cleanout	1	EA	75.00	75	65.00	65	140.00	140
4" diameter VTR	4	EA	105.00	420	150.00	600	255.00	1,020
1" thick insulation with vapor barrier	20	LF	6.10	122	6.50	130	12.60	252

Roof Drains

RD-1: 3" diameter roof and overflow drains	8	PRS	710.00	5,680	250.00	2,000	960.00	7,680
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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Roof Drains (Continued)

RD-2: 3" diameter roof drain	1	EA	350.00	350	185.00	185	535.00	535
4" diameter cast iron rain leader pipe	200	LF	37.00	7,400	22.00	4,400	59.00	11,800
3" diameter cast iron rain leader pipe	300	LF	24.00	7,200	19.50	5,850	43.50	13,050
4" diameter cast iron fittings	25	EA	55.00	1,375	90.00	2,250	145.00	3,625
3" diameter cast iron fittings	38	EA	40.00	1,520	80.00	3,040	120.00	4,560
4" diameter cleanout	1	EA	65.00	65	75.00	75	140.00	140
3/4" diameter drain valve	1	EA	32.00	32	26.00	26	58.00	58
Wall access door	1	EA	69.00	69	55.00	55	124.00	124
ON-1: 4" diameter wall nozzle	1	EA	140.00	140	70.00	70	210.00	210
2" insulation to rain leader pipe, 4" diameter	200	LF	5.65	1,130	11.90	2,380	17.55	3,510
2" insulation to rain leader pipe, 3" diameter	300	LF	4.90	1,470	9.20	2,760	14.10	4,230
Heat trace	100	LF						With Electrical

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water

2" diameter hot and cold water copper pipe	150	LF	22.00	3,300	14.60	2,190	36.60	5,490
1 1/2" diameter hot and cold water copper pipe	200	LF	16.00	3,200	11.70	2,340	27.70	5,540
1 1/4" diameter hot and cold water copper pipe	220	LF	15.00	3,300	11.00	2,420	26.00	5,720
1" diameter hot and cold water copper pipe	550	LF	10.20	5,610	9.15	5,033	19.35	10,643
3/4" diameter hot and cold water copper pipe	560	LF	5.70	3,192	7.50	4,200	13.20	7,392
1/2" diameter hot and cold water copper pipe	800	LF	3.70	2,960	4.50	3,600	8.20	6,560
2" diameter copper fittings	19	EA	21.50	409	52.00	988	73.50	1,397
1 1/2" to 1" diameter copper fittings	122	EA	9.00	1,098	42.55	5,191	51.55	6,289
3/4" to 1/2" diameter copper fittings	170	EA	3.20	544	31.00	5,270	34.20	5,814
Trap primers	18	EA	87.00	1,566	45.00	810	132.00	2,376
TV-1: 1 1/2" diameter tempering valve	1	EA	1950.00	1,950	210.00	210	2160.00	2,160
TV-2: 3/4" diameter tempering valve	1	EA	150.00	150	50.00	50	200.00	200
TV-3: 3/4" diameter tempering valve	1	EA	150.00	150	50.00	50	200.00	200

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water (Continued)

Pressure relief valves to water generator	1	EA	155.00	155	55.00	55	210.00	210
1" diameter balance valve, bronze body	1	EA	112.00	112	52.00	52	164.00	164
3/4" diameter balance valve, bronze body	1	EA	86.00	86	31.00	31	117.00	117
2" diameter check valve, bronze body	1	EA	375.00	375	56.00	56	431.00	431
1 1/2" diameter check valves, bronze body	2	EA	256.00	512	52.00	104	308.00	616
1" diameter check valves, bronze body	2	EA	153.00	306	33.00	66	186.00	372
3/4" diameter check valve, bronze body	1	EA	106.00	106	31.00	31	137.00	137
2" diameter ball valve, bronze body	1	EA	84.00	84	69.00	69	153.00	153
1 1/2" diameter ball valves, bronze body	7	EA	67.00	469	57.00	399	124.00	868
1" diameter ball valves, bronze body	5	EA	31.00	155	41.00	205	72.00	360
3/4" diameter ball valves, bronze body	7	EA	25.00	175	37.00	259	62.00	434
1/2" diameter ball valves, bronze body	4	EA	15.00	60	34.00	136	49.00	196
2" diameter pressure regulator valve	1	EA	960.00	960	110.00	110	1070.00	1,070

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

ABOVE FLOOR PIPING (Continued)

Hot and Cold Water (Continued)

3/4" diameter drain valve	1	EA	32.00	32	26.00	26	58.00	58
Solar thermometers	3	EA	82.00	246	46.00	138	128.00	384
Pressure gauge with gate valve	1	EA	62.00	62	65.00	65	127.00	127
Hi-limit controller	1	EA	85.00	85	40.00	40	125.00	125
1" insulation to hot and cold water pipe, 2" diameter pipe	150	LF	6.10	915	5.80	870	11.90	1,785
1" insulation to hot and cold water pipe, 1 1/2" diameter pipe	200	LF	3.40	680	4.35	870	7.75	1,550
1" insulation to hot and cold water pipe, 1 1/4" diameter pipe	220	LF	3.00	660	3.40	748	6.40	1,408
1" insulation to hot and cold water pipe, 1" diameter pipe	550	LF	2.30	1,265	3.15	1,733	5.45	2,998
1" insulation to hot and cold water pipe, 3/4" diameter pipe	560	LF	2.10	1,176	2.95	1,652	5.05	2,828
1" insulation to hot and cold water pipe, 1/2" diameter pipe	880	LF	1.90	1,672	2.70	2,376	4.60	4,048

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08 - MECHANICAL 081 - Plumbing	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MISCELLANEOUS

Disinfect and test systems	1	LOT	500.00	500	1700.00	1,700	2200.00	2,200
Pipe guides, labels, etc.	1	LOT	750.00	750	2250.00	2,250	3000.00	3,000
SUBTOTAL:					\$ 148,012	\$ 138,869		\$ 286,881
Labor Premium Time	16.70%					23,191		23,191
SUBTOTAL:					\$ 148,012	\$ 162,060		\$ 310,072
Subcontractor's Overhead and Profit on Material and Labor	20.00%			29,602		32,412		62,014

TOTAL ESTIMATED COST:				\$ 177,614		\$ 194,472		\$ 372,086
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 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING

B-1 and 2: 424 MBH dual fuel gas and fuel oil fired boilers, complete package	2	EA	6250.00	12,500	5000.00	10,000	11250.00	22,500
8" diameter flue	60	LF	25.00	1,500	24.00	1,440	49.00	2,940
2" thick insulation to flue	25	SF	2.10	53	5.00	125	7.10	178
Chimney tops with storm collar	2	EA	145.00	290	110.00	220	255.00	510
CP-1 and 1A: 72 GPM, 35'0" head, 2 HP hydronic pumps (size assumed)	2	EA	1840.00	3,680	1000.00	2,000	2840.00	5,680
CP-2 and 2A: 65 GPM, 40'0" head, 1 1/2 HP hydronic pumps (size assumed)	2	EA	1752.00	3,504	908.00	1,816	2660.00	5,320
CP-3 and 3A: 17 GPM, 14'0" head, fractional HP hydronic pumps (size assumed)	2	EA	1175.00	2,350	300.00	600	1475.00	2,950
CP-B1 and B2: 100 GPM, 15'0" head, 3 HP boiler circulation pumps (size assumed)	2	EA	2035.00	4,070	1190.00	2,380	3225.00	6,450
HX-1: 16 GPM, wall mounted, brazed plate heat exchanger (size assumed)	1	EA	4650.00	4,650	350.00	350	5000.00	5,000
ET-1: 44 gallon compression tank	1	EA	450.00	450	175.00	175	625.00	625
ET-2: 14 gallon expansion tank (size assumed)	1	EA	145.00	145	110.00	110	255.00	255

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING (Continued)

GT-1: 6 gallon glycol tank and pump	1	EA	350.00	350	110.00	110	460.00	460
Glycol media	250	GALS	13.00	3,250	2.50	625	15.50	3,875
AS-1: 3" air separator	1	EA	2550.00	2,550	310.00	310	2860.00	2,860
UH-1: 72.5 MBH, fractional HP unit heaters	10	EA	1054.00	10,540	600.00	6,000	1654.00	16,540
UH-2: 32.3 MBH, fractional HP unit heater	1	EA	640.00	640	510.00	510	1150.00	1,150
UH-3: 10 MBH, fractional HP unit heater	1	EA	550.00	550	210.00	210	760.00	760
CUH-1-4: 16 MBH, fractional HP cabinet unit heaters	4	EA	990.00	3,960	350.00	1,400	1340.00	5,360
FT-1: 1.2 MBH/LF single tier fin tubes (4 each)	31	LF	25.00	775	20.00	620	45.00	1,395
Enclosure (single tier)	90	LF	17.00	1,530	10.00	900	27.00	2,430
HR-1: 24"x24" hydronic radiators	8	EA	210.00	1,680	110.00	880	320.00	2,560
1/2" diameter PEX tubing, 9" o/c for radiant floor heating at apparatus bay (7,338 SF)	10,280	LF	1.25	12,850	1.40	14,392	2.65	27,242
Manifolds and valves	5	EA	675.00	3,375	280.00	1,400	955.00	4,775

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING (Continued)

Hydronic Piping

4" diameter black steel pipe	120	LF	29.35	3,522	31.50	3,780	60.85	7,302
3" diameter hydronic polypropylene pipe	80	LF	39.36	3,149	25.20	2,016	64.56	5,165
2 1/2" diameter hydronic polypropylene pipe	200	LF	29.28	5,856	18.20	3,640	47.48	9,496
2" diameter hydronic polypropylene pipe	180	LF	22.00	3,960	14.60	2,628	36.60	6,588
1 1/2" diameter hydronic polypropylene pipe	250	LF	16.00	4,000	11.70	2,925	27.70	6,925
1 1/4" diameter hydronic polypropylene pipe	280	LF	15.00	4,200	11.00	3,080	26.00	7,280
1" diameter hydronic polypropylene pipe	350	LF	10.20	3,570	8.75	3,063	18.95	6,633
3/4" diameter hydronic polypropylene pipe	1,000	LF	5.70	5,700	7.50	7,500	13.20	13,200
4" diameter black steel fittings	15	EA	98.00	1,470	163.00	2,445	261.00	3,915
3" diameter copper fittings	10	EA	68.50	685	92.00	920	160.50	1,605
2 1/2" diameter copper fittings	25	EA	46.00	1,150	78.00	1,950	124.00	3,100
2" diameter copper fittings	23	EA	21.50	495	52.00	1,196	73.50	1,691
1 1/2" to 1" diameter copper fittings	110	EA	9.00	990	42.55	4,681	51.55	5,671

HMS Project No.: 19027

08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING (Continued)

Hydronic Piping (Continued)

3/4" diameter copper fittings	125	EA	3.20	400	31.00	3,875	34.20	4,275
Pipe anchors	4	EA	48.00	192	65.00	260	113.00	452
Pipe guides	8	EA	39.00	312	50.00	400	89.00	712
4" diameter gate valves, iron body	14	EA	1225.00	17,150	420.00	5,880	1645.00	23,030
3" diameter gate valves, iron body	4	EA	860.00	3,440	280.00	1,120	1140.00	4,560
2 1/2" diameter ball valves, iron body	2	EA	770.00	1,540	251.00	502	1021.00	2,042
2" diameter ball valves, bronze body	30	EA	84.00	2,520	69.00	2,070	153.00	4,590
1 1/2" diameter ball valves, bronze body	4	EA	67.00	268	57.00	228	124.00	496
1 1/4" diameter ball valves, bronze body	6	EA	53.00	318	48.00	288	101.00	606
1" diameter ball valves, bronze body	30	EA	31.00	930	41.00	1,230	72.00	2,160
3/4" diameter ball valves, bronze body	54	EA	25.00	1,350	37.00	1,998	62.00	3,348
4" diameter check valves, iron body	6	EA	680.00	4,080	420.00	2,520	1100.00	6,600
2" diameter check valves, bronze body	2	EA	375.00	750	56.00	112	431.00	862

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING (Continued)

Hydronic Piping (Continued)

4" diameter flow metering	2	EA	1325.00	2,650	420.00	840	1745.00	3,490
2" diameter balance valves, bronze body	13	EA	277.00	3,601	62.00	806	339.00	4,407
1" diameter balance valves, bronze body	10	EA	112.00	1,120	35.00	350	147.00	1,470
3/4" diameter balance valves, bronze body	27	EA	86.00	2,322	31.00	837	117.00	3,159
2" diameter three-way motor operated control valves, iron body	7	EA	770.00	5,390	150.00	1,050	920.00	6,440
1" diameter two-way motor operated control valves, iron body	15	EA	405.00	6,075	70.00	1,050	475.00	7,125
3/4" diameter two-way motor operated control valves, bronze body	27	EA	350.00	9,450	45.00	1,215	395.00	10,665
3/4" diameter drain valves	35	EA	32.00	1,120	26.00	910	58.00	2,030
Pressure relief valves to boiler and heat exchanger	3	EA	320.00	960	70.00	210	390.00	1,170
Auto air vent with isolation valves	28	EA	72.50	2,030	39.00	1,092	111.50	3,122
Solar thermometers	7	EA	82.00	574	46.00	322	128.00	896

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

HEATING (Continued)

Hydronic Piping (Continued)

Pressure gauges with (2) gate valves	4	EA	110.00	440	85.00	340	195.00	780
Pressure gauges with gate valves	6	EA	72.00	432	45.00	270	117.00	702
Pressure sensor	1	EA	85.00	85	40.00	40	125.00	125
Temperature and pressure test plugs	40	EA	23.00	920	20.00	800	43.00	1,720
2" insulation to hydronic pipe, 4" diameter	120	LF	9.15	1,098	6.68	802	15.83	1,900
2" insulation to hydronic pipe, 3" diameter	80	LF	6.60	528	6.00	480	12.60	1,008
2" insulation to hydronic pipe, 2 1/2" diameter	200	LF	6.00	1,200	5.50	1,100	11.50	2,300
2" insulation to hydronic pipe, 2" diameter	180	LF	5.25	945	4.80	864	10.05	1,809
2" insulation to hydronic pipe, 1 1/2" diameter	250	LF	4.95	1,238	4.32	1,080	9.27	2,318
2" insulation to hydronic pipe, 1 1/4" diameter	280	LF	2.95	826	4.32	1,210	7.27	2,036
2" insulation to hydronic pipe, 1" diameter	350	LF	2.68	938	4.05	1,418	6.73	2,356
2" insulation to hydronic pipe, 3/4" diameter	1,000	LF	2.40	2,400	3.70	3,700	6.10	6,100

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION

AHU-1: 2,600 CFM air handling unit with ___ MBH preheating coil, ___ MBH heating coil, air cooled condenser, mixing box, and filters	1	EA	10400.00	10,400	2600.00	2,600	13000.00	13,000
AHU-2: 5,200 CFM air handling unit with ___ MBH preheating coil, ___ MBH heating coil, air cooled condenser, mixing box, and filters	1	EA	20800.00	20,800	5200.00	5,200	26000.00	26,000
AHU-3: 2,600 CFM air handling unit with ___ MBH preheating coil, ___ MBH heating coil, mixing box, and filters	1	EA	7800.00	7,800	2150.00	2,150	9950.00	9,950
1,000 CFM exhaust fans (size assumed)	3	EA	2000.00	6,000	500.00	1,500	2500.00	7,500
VF-1: 1,500 CFM, 1/6 HP supply air fan	1	EA	1925.00	1,925	520.00	520	2445.00	2,445
400 CFM VAV boxes with heating coil (size assumed)	11	EA	650.00	7,150	210.00	2,310	860.00	9,460
AC-1: 2 ton air conditioner with (2) condensation units at comm room (size assumed)	1	EA	3800.00	3,800	1100.00	1,100	4900.00	4,900
CF-1: 670 CFM fractional HP ceiling fans at apparatus bay (size assumed)	5	EA	220.00	1,100	280.00	1,400	500.00	2,500
L-1: Louvers (3 each)	43	SF	33.50	1,441	12.00	516	45.50	1,957
Wall hoods	2	EA	550.00	1,100	210.00	420	760.00	1,520

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

KH-1: 36 7/16"x23 5/8" kitchen exhaust hoods	2	EA						With Kitchen Equipment
36" diameter supply air round diffusers, duct mounted	4	EA	450.00	1,800	150.00	600	600.00	2,400
Supply air round diffusers, ceiling mounted	12	EA	120.00	1,440	70.00	840	190.00	2,280
Supply air diffusers, ceiling mounted	28	EA	85.00	2,380	60.00	1,680	145.00	4,060
Supply air round diffusers, wall mounted	8	EA	140.00	1,120	75.00	600	215.00	1,720
Return air round grilles, ceiling mounted	10	EA	45.00	450	40.00	400	85.00	850
Return air grilles, ceiling mounted	15	EA	40.00	600	40.00	600	80.00	1,200
Wall caps	2	EA	110.00	220	85.00	170	195.00	390
Motor operated damper	1	EA	130.00	130	70.00	70	200.00	200
Fire/smoke dampers	11	EA	149.00	1,639	45.00	495	194.00	2,134
Volume dampers	45	EA	37.00	1,665	25.00	1,125	62.00	2,790
6" to 14" diameter flexible duct	60	LF	10.50	630	13.50	810	24.00	1,440
Sheetmetal ductwork and hangers	12,700	LBS	3.78	48,006	4.15	52,705	7.93	100,711
2" duct insulation	450	SF	2.40	1,080	2.55	1,148	4.95	2,228

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VENTILATION (Continued)

2" duct lining	300	SF	1.95	585	2.10	630	4.05	1,215
Test, balance and commission system	150	HRS			165.00	24,750	165.00	24,750
Direct digital control system	18,650	SF	3.45	64,343	2.70	50,355	6.15	114,698
Temperature sensors	22	EA	87.00	1,914	56.00	1,232	143.00	3,146
Outside temperature sensor	1	EA	110.00	110	75.00	75	185.00	185
Thermostats with locking cover	4	EA	113.00	452	65.00	260	178.00	712
Labels and tags	1	LOT	250.00	250	550.00	550	800.00	800

MISCELLANEOUS

Mechanical mobilization/demobilization, submittals, etc.	1	LOT	2000.00	2,000	7500.00	7,500	9500.00	9,500
Manuals and operations training	1	LOT	500.00	500	2500.00	2,500	3000.00	3,000

SUBTOTAL:				\$ 386,411		\$ 294,477		\$ 680,888
Labor Premium Time	16.70%					49,178		49,178
SUBTOTAL:				\$ 386,411		\$ 343,655		\$ 730,066

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 082 - HVAC	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

Subcontractor's Overhead and Profit on Material and Labor	20.00%		77,282		68,731		146,013
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TOTAL ESTIMATED COST:		\$ 463,693	\$ 412,386	\$ 876,079
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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08 - MECHANICAL 083 - Fire Protection	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
4" diameter double check valve backflow preventer valve assembly	1	EA	4250.00	4,250	330.00	330	4580.00	4,580
Wet pipe sprinkler valve riser	1	EA	2250.00	2,250	1425.00	1,425	3675.00	3,675
Wet pipe sprinkler system	18,650	SF	1.75	32,638	2.50	46,625	4.25	79,263
Fire department connection	1	EA	650.00	650	230.00	230	880.00	880
Design fee	1	LOT	5000.00	5,000			5000.00	5,000
Test and certify system	1	LOT	300.00	300	1700.00	1,700	2000.00	2,000
SUBTOTAL:				\$ 45,088		\$ 50,310		\$ 95,398
Labor Premium Time	16.70%					8,402		8,402
SUBTOTAL:				\$ 45,088		\$ 58,712		\$ 103,800
Subcontractor's Overhead and Profit on Material and Labor	20.00%			9,018		11,742		20,760
TOTAL ESTIMATED COST:				\$ 54,106		\$ 70,454		\$ 124,560

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08 - MECHANICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
084 - Special Mechanical Systems								

LPG SYSTEM

LPG regulator	1	EA						By Utility Co.
1" diameter black steel pipe	60	LF	6.80	408	13.00	780	19.80	1,188
3/4" diameter black steel pipe	40	LF	5.50	220	11.00	440	16.50	660
1" diameter black steel fittings	8	EA	8.00	64	45.00	360	53.00	424
3/4" diameter black steel fittings	6	EA	5.35	32	37.00	222	42.35	254
1" diameter safety valves	2	EA	55.00	110	35.00	70	90.00	180
3/4" diameter safety valves	4	EA	67.00	268	40.00	160	107.00	428
Quick disconnects	3	EA	75.00	225	110.00	330	185.00	555

FUEL OIL SYSTEM

DT-1: 10 gallon fuel oil tank complete package including rupture basin, extra pipe connections, standard pump and controls, day tank controls	1	EA	4550.00	4,550	750.00	750	5300.00	5,300
1" diameter black steel pipe	20	LF	6.80	136	13.00	260	19.80	396
3/4" diameter black steel pipe	40	LF	5.50	220	11.00	440	16.50	660
1" diameter black steel fittings	4	EA	8.00	32	45.00	180	53.00	212

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
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08 - MECHANICAL 084 - Special Mechanical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FUEL OIL SYSTEM (Continued)

3/4" diameter black steel fittings	6	EA	5.35	32	37.00	222	42.35	254
Connections to boilers and water heater, including valves and fittings	3	EA	240.00	720	160.00	480	400.00	1,200
Test gas and fuel oil piping	1	LOT	75.00	75	425.00	425	500.00	500

COMPRESSED AIR

AC-1: 60 gallon, 35 CFM shop air compressor	1	EA	750.00	750	210.00	210	960.00	960
3/8" quick disconnect air hose coupling	1	EA	62.00	62	71.30	71	133.30	133
1/2" diameter black steel pipe	200	LF	3.10	620	8.50	1,700	11.60	2,320
3/4" diameter black steel fittings	25	EA	3.20	80	30.00	750	33.20	830
Test and commission air system	1	LOT	70.00	70	150.00	150	220.00	220

VEHICLE EXHAUST SYSTEM

EF-1: 2,500 CFM, wall mounted, on platform exhaust fan with 60" long outlet silencer and 1" diameter flue	1	EA	7500.00	7,500	750.00	750	8250.00	8,250
Plymovent control panel	1	EA	750.00	750	220.00	220	970.00	970

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
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08 - MECHANICAL 084 - Special Mechanical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

VEHICLE EXHAUST SYSTEM (Continued)

Plymovent STRA-60-1 straight rail drive-through system with 57'0" rail and one hose	4	EA	6500.00	26,000	650.00	2,600	7150.00	28,600
Plymovent SBTA-21 sliding balancer track back in system with 19'0" track and one hose	2	EA	2200.00	4,400	310.00	620	2510.00	5,020
Sheetmetal ductwork and hangers	2,200	LBS	3.78	8,316	4.15	9,130	7.93	17,446
CO ₂ detectors	2	EA	85.00	170	60.00	120	145.00	290
NO ₂ detectors	2	EA	150.00	300	75.00	150	225.00	450
Test system	1	LOT	500.00	500	1000.00	1,000	1500.00	1,500
SUBTOTAL:				\$ 56,610		\$ 22,590		\$ 79,200
Labor Premium Time	16.70%					3,773		3,773
SUBTOTAL:				\$ 56,610		\$ 26,363		\$ 82,973
Subcontractor's Overhead and Profit on Material and Labor	20.00%			11,322		5,273		16,595
TOTAL ESTIMATED COST:				\$ 67,932		\$ 31,636		\$ 99,568

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09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
091 - Service and Distribution			\$	\$	\$	\$	\$	\$
800 amp, 208/120 volt, 3 phase, 4 wire main distribution panel with 10 circuits	1	EA	8575.00	8,575	2500.00	2,500	11075.00	11,075
225 amp, 208/120 volt, 3 phase, 4 wire subpanel with 42 circuits	4	EA	3200.00	12,800	1980.00	7,920	5180.00	20,720
225 amp, 208/120 volt, 3 phase, 4 wire, 2 section subpanels with 84 circuits	2	EA	4750.00	9,500	2350.00	4,700	7100.00	14,200
125 amp, 208/120 volt, 3 phase, 4 wire subpanel with 42 circuits	1	EA	1150.00	1,150	840.00	840	1990.00	1,990
60 amp, 208/120 volt, 3 phase, 4 wire subpanel with 42 circuits	1	EA	810.00	810	650.00	650	1460.00	1,460
800 amp automatic transfer switch	1	EA	13000.00	13,000	1700.00	1,700	14700.00	14,700
3" diameter rigid steel conduit	20	LF	24.50	490	26.40	528	50.90	1,018
1 1/2" diameter EMT conduit	240	LF	4.93	1,183	7.34	1,762	12.27	2,945
1 1/4" diameter EMT conduit	40	LF	3.78	151	6.60	264	10.38	415
500 KCMIL copper conductors	100	LF	13.47	1,347	5.07	507	18.54	1,854
#4/0 XHHW copper conductors	1,000	LF	6.26	6,260	3.30	3,300	9.56	9,560
#1/0 XHHW copper conductors	200	LF	3.19	638	2.27	454	5.46	1,092
#3 XHHW copper conductors	210	LF	1.92	403	1.47	309	3.39	712

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DATE: 3/12/2019

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09 - ELECTRICAL 091 - Service and Distribution	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
#3/0 bare copper ground	100	LF	4.40	440	2.64	264	7.04	704
#1 bare copper ground	30	LF	2.36	71	1.66	50	4.02	121
#2 bare copper ground	60	LF	1.95	117	1.32	79	3.27	196
#4 bare copper ground	300	LF	1.23	369	1.24	372	2.47	741
#6 bare copper ground	50	LF	0.75	38	1.07	54	1.82	92
3/4" diameter x 10'0" copper ground rods	4	EA	63.00	252	150.00	600	213.00	852
Grounding to equipment	5	EA	45.00	225	85.00	425	130.00	650
Shunt trip disconnect switch	1	EA	250.00	250	110.00	110	360.00	360
<u>MISCELLANEOUS</u>								
Test and tag service	1	LOT	500.00	500	2000.00	2,000	2500.00	2,500
SUBTOTAL:				\$ 58,569		\$ 29,388		\$ 87,957
Labor Premium Time	16.70%					4,908		4,908
SUBTOTAL:				\$ 58,569		\$ 34,296		\$ 92,865
Subcontractor's Overhead and Profit on Material and Labor	20.00%			11,714		6,859		18,573
TOTAL ESTIMATED COST:				\$ 70,283		\$ 41,155		\$ 111,438

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES

Type A: 24"x24" LED light fixtures	35	EA	120.00	4,200	110.00	3,850	230.00	8,050
Type B: 24"x48" LED light fixtures	18	EA	145.00	2,610	110.00	1,980	255.00	4,590
Type B1: 24"x48" LED light fixtures	6	EA	145.00	870	110.00	660	255.00	1,530
Type C: 6" diameter round LED downlights	42	EA	110.00	4,620	90.00	3,780	200.00	8,400
Type C1: 6" diameter round LED downlights	16	EA	125.00	2,000	90.00	1,440	215.00	3,440
Type C2: 6" diameter round LED downlights	13	EA	130.00	1,690	90.00	1,170	220.00	2,860
Type C3: 6" diameter round LED downlights	10	EA	135.00	1,350	90.00	900	225.00	2,250
Type D: 6" diameter round shower LED light fixtures	7	EA	210.00	1,470	110.00	770	320.00	2,240
Type E: 12"x48" high bay LED light fixtures	24	EA	450.00	10,800	275.00	6,600	725.00	17,400
Type F: 24"x48" LED light fixtures	20	EA	165.00	3,300	110.00	2,200	275.00	5,500
Type G: Wall mounted LED vanity light fixtures	7	EA	125.00	875	90.00	630	215.00	1,505
Type H: Wall mounted LED light fixtures at crew room bedside reading light	6	EA	150.00	900	70.00	420	220.00	1,320
Type I: Wall mounted corridor LED light fixtures	6	EA	110.00	660	70.00	420	180.00	1,080

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (Continued)

Type K: 48" long wall mounted LED strip light fixtures	10	EA	110.00	1,100	90.00	900	200.00	2,000
Type K2: 48" long LED strip light fixtures	36	EA	110.00	3,960	110.00	3,960	220.00	7,920
Type L: 24"x12" bathroom LED light fixtures	9	EA	145.00	1,305	110.00	990	255.00	2,295
Type M: 12"x48" LED light fixtures	2	EA	210.00	420	120.00	240	330.00	660
Type M1: 12"x48" LED light fixtures	2	EA	225.00	450	120.00	240	345.00	690
Type N: Round LED downlight fixture	1	EA	250.00	250	110.00	110	360.00	360
Type R1: Exterior wall mounted LED light fixtures	9	EA	450.00	4,050	210.00	1,890	660.00	5,940
Type WF: Exterior wall mounted LED light fixtures at overhead door	6	EA	350.00	2,100	210.00	1,260	560.00	3,360
Type V: 12"x48" under cabinet LED light fixtures	3	EA	70.00	210	70.00	210	140.00	420
Type X: Single face exit signs	12	EA	85.00	1,020	125.00	1,500	210.00	2,520
Twin head emergency light/exit sign combination units	2	EA	150.00	300	135.00	270	285.00	570
Double head emergency light fixtures	7	EA	135.00	945	125.00	875	260.00	1,820

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIXTURES (Continued)

Emergency light ballast and connections	50	EA	78.00	3,900	50.00	2,500	128.00	6,400
Single pole switches	14	EA	12.50	175	45.00	630	57.50	805
Pilot light switch	1	EA	25.00	25	58.00	58	83.00	83
Push buttons	10	EA	65.00	650	50.00	500	115.00	1,150
Occupancy sensors	19	EA	143.00	2,717	102.00	1,938	245.00	4,655
Occupancy sensor switches	11	EA	70.00	770	50.00	550	120.00	1,320
Dimmer switches	7	EA	26.00	182	40.00	280	66.00	462
Four-way dimmer switches	3	EA	50.00	150	65.00	195	115.00	345
Three-way switches	8	EA	27.00	216	50.00	400	77.00	616
Three-way low voltage switches	10	EA	27.00	270	50.00	500	77.00	770
Four-way low voltage switches	3	EA	39.00	117	55.00	165	94.00	282

POWER

Duplex receptacles	116	EA	12.00	1,392	40.00	4,640	52.00	6,032
Duplex receptacles, weatherproof, GFCI	14	EA	40.00	560	90.00	1,260	130.00	1,820

HMS Project No.: 19027

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

POWER (Continued)

Duplex receptacles with twist lock and flexible drop cord, ceiling mounted	10	EA	135.00	1,350	80.00	800	215.00	2,150
Duplex receptacles, GFCI	35	EA	19.00	665	55.00	1,925	74.00	2,590
Double duplex receptacles	13	EA	24.00	312	55.00	715	79.00	1,027
Double duplex receptacles, floor mounted	7	EA	170.00	1,190	110.00	770	280.00	1,960
Special receptacle (dryer)	1	EA	35.00	35	65.00	65	100.00	100
Junction boxes	17	EA	6.00	102	20.00	340	26.00	442
Heat trace to rain leader pipe	100	LF	10.00	1,000	3.20	320	13.20	1,320
Connections to rain leader pipe	8	EA	15.00	120	45.00	360	60.00	480
Push button and solenoid for gas shut down	1	EA	100.00	100	80.00	80	180.00	180
Emergency push button at mechanical room	1	EA	100.00	100	80.00	80	180.00	180
VFD connections	3	EA	25.00	75	50.00	150	75.00	225
Fractional single phase motor connections	42	EA	25.00	1,050	74.00	3,108	99.00	4,158
Fractional single phase motor connections, weatherproof	3	EA	45.00	135	110.00	330	155.00	465

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

POWER (Continued)

Air handling unit motor connections	3	EA	65.00	195	130.00	390	195.00	585
Pump motor connections	6	EA	105.00	630	210.00	1,260	315.00	1,890
Thermal overload switches	42	EA	27.00	1,134	48.00	2,016	75.00	3,150
Thermal overload switches, weatherproof	3	EA	40.00	120	60.00	180	100.00	300
Combination starter/disconnect switches	6	EA	250.00	1,500	85.00	510	335.00	2,010
Combination starter/disconnect switches, weatherproof	3	EA	310.00	930	110.00	330	420.00	1,260
20 amp, 4 pole mechanically held lighting contactor with photocell and relay	1	EA	650.00	650	225.00	225	875.00	875
20 amp, 4 pole mechanically held lighting contactor with photocell, relay, and override push button	1	EA	675.00	675	250.00	250	925.00	925
20 amp, 4 pole mechanically held lighting contactor with thermostatic switch	1	EA	650.00	650	225.00	225	875.00	875
1" diameter EMT conduit	1,550	LF	2.26	3,503	5.80	8,990	8.06	12,493
3/4" diameter EMT conduit	3,480	LF	1.29	4,489	5.12	17,818	6.41	22,307
1/2" diameter EMT conduit	2,710	LF	0.83	2,249	3.88	10,515	4.71	12,764

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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09 - ELECTRICAL 092 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

POWER (Continued)

#8 XHHW copper	7,750	LF	0.82	6,355	1.05	8,138	1.87	14,493
#10 XHHW copper	13,550	LF	0.52	7,046	0.85	11,518	1.37	18,564
#12 XHHW copper	17,400	LF	0.34	5,916	0.65	11,310	0.99	17,226

MISCELLANEOUS

Test and tag lighting and power systems	1	LOT	500.00	500	2500.00	2,500	3000.00	3,000
Electrical mobilization/demobilization, submittals, etc.	1	LOT	2500.00	2,500	7500.00	7,500	10000.00	10,000
Manuals and training	1	LOT	250.00	250	1250.00	1,250	1500.00	1,500

SUBTOTAL:				\$ 108,105		\$ 144,849		\$ 252,954
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Labor Premium Time	16.70%					24,190		24,190
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SUBTOTAL:				\$ 108,105		\$ 169,039		\$ 277,144
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Subcontractor's Overhead and Profit on Material and Labor	20.00%			21,621		33,808		55,429
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TOTAL ESTIMATED COST:				\$ 129,726		\$ 202,847		\$ 332,573
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HMS Project No.: 19027

09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIRE ALARM SYSTEM

Addressable fire alarm control panel with battery back up and auto dialer	1	EA	6500.00	6,500	2250.00	2,250	8750.00	8,750
Pull stations	6	EA	75.00	450	80.00	480	155.00	930
Pull station, weatherproof	1	EA	110.00	110	95.00	95	205.00	205
Horn/strobes, ceiling mounted	2	EA	165.00	330	95.00	190	260.00	520
Horn/strobes, ceiling mounted, weatherproof	5	EA	210.00	1,050	110.00	550	320.00	1,600
Horn/strobes, wall mounted	20	EA	165.00	3,300	90.00	1,800	255.00	5,100
Horn/strobes, weatherproof	2	EA	180.00	360	95.00	190	275.00	550
Strobes	3	EA	82.00	246	60.00	180	142.00	426
Strobes, weatherproof	4	EA	110.00	440	85.00	340	195.00	780
Smoke detectors	26	EA	115.00	2,990	98.00	2,548	213.00	5,538
Duct smoke detectors	3	EA	330.00	990	200.00	600	530.00	1,590
Heat detectors	11	EA	80.00	880	65.00	715	145.00	1,595
Tamper switch connection	1	EA	15.00	15	45.00	45	60.00	60
Flow switch connection	1	EA	15.00	15	45.00	45	60.00	60

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA
35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

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09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIRE ALARM SYSTEM (Continued)

3/4" diameter EMT conduit	2,150	LF	1.29	2,774	5.12	11,008	6.41	13,782
Alarm wire	2,580	LF	0.48	1,238	0.95	2,451	1.43	3,689

CATV SYSTEM

CATV headend equipment toner #XQT-916 with 16 port quad tap	1	EA	250.00	250	80.00	80	330.00	330
Television outlets	7	EA	12.00	84	40.00	280	52.00	364
Junction boxes	8	EA	6.00	48	20.00	160	26.00	208
3/4" diameter EMT conduit	560	LF	1.29	722	5.12	2,867	6.41	3,589
RG-6 coaxial cable	630	LF	0.78	491	0.72	454	1.50	945

TELEPHONE/DATA

3/4" plywood backboard with two coats white latex paint	144	SF	2.75	396	3.50	504	6.25	900
Comm/data racks	2	EA	775.00	1,550	270.00	540	1045.00	2,090
48-port patch panels	4	EA	120.00	480	260.00	1,040	380.00	1,520
Wire cable management panels	8	EA	310.00	2,480	170.00	1,360	480.00	3,840

HMS Project No.: 19027

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

TELEPHONE/DATA (Continued)

2-port combination telephone/data jacks, wall mounted	26	EA	20.00	520	35.00	910	55.00	1,430
2-port combination telephone/data jacks, wall mounted, weatherproof	2	EA	27.00	54	50.00	100	77.00	154
3-port combination telephone/data jacks, wall mounted	3	EA	30.00	90	60.00	180	90.00	270
2-port combination telephone/data jacks, floor mounted	7	EA	112.00	784	79.00	553	191.00	1,337
Wireless access points	10	EA	110.00	1,100	70.00	700	180.00	1,800
Building service entrance protective device	1	EA	150.00	150	75.00	75	225.00	225
Punch down blocks	4	EA	110.00	440	45.00	180	155.00	620
Plug strips	2	EA	35.00	70	15.00	30	50.00	100
Main ground bus bar	1	EA	210.00	210	110.00	110	320.00	320
Ground bus bars at racks	2	EA	136.00	272	60.00	120	196.00	392
3 KVA UPS	1	EA	6000.00	6,000	2700.00	2,700	8700.00	8,700
4" diameter EMT conduit	60	LF	24.00	1,440	14.69	881	38.69	2,321

HMS Project No.: 19027

09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

TELEPHONE/DATA (Continued)

3/4" diameter EMT conduit	380	LF	1.29	490	5.12	1,946	6.41	2,436
Cat 6 cable	8,900	LF	0.38	3,382	0.70	6,230	1.08	9,612
25 pair Cat 6 cable	50	LF	3.45	173	7.50	375	10.95	548
J-hooks	520	EA	0.75	390	1.60	832	2.35	1,222
D-rings	7	EA	3.00	21	10.00	70	13.00	91

ACCESS CONTROL

Access control panel	1	EA	650.00	650	210.00	210	860.00	860
Card readers	12	EA	410.00	4,920	120.00	1,440	530.00	6,360
3/4" diameter EMT conduit	1,200	LF	1.29	1,548	5.12	6,144	6.41	7,692
Wiring	1,320	LF	0.32	422	0.80	1,056	1.12	1,478

LGP GAS SOLENOID SYSTEM

Control relays to shut gas appliances off with wiring	2	EA	150.00	300	110.00	220	260.00	520
Gas reset button with wiring	1	EA	150.00	150	135.00	135	285.00	285

HMS Project No.: 19027

09 - ELECTRICAL	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
093 - Special Electrical Systems								

SECURITY CAMERA SYSTEM (ROUGH-IN ONLY)

Note: Video storage appliance, exterior cameras, and camera field patch cords by owner.

24-port UTP patch panel	1	EA	120.00	120	110.00	110	230.00	230
24-port POE network switch	1	EA	670.00	670	76.00	76	746.00	746
RJ-45 data ports	3	EA	12.00	36	40.00	120	52.00	156
Junction boxes	2	EA	6.00	12	20.00	40	26.00	52
Junction box, weatherproof	1	EA	10.00	10	25.00	25	35.00	35
3/4" diameter EMT conduit	300	LF	1.29	387	5.12	1,536	6.41	1,923
Cat 6 cable	350	LF	0.38	133	0.70	245	1.08	378

FIRE ALERTING SYSTEM

Zone paging system headend equipment (Bogen #BCM2000)	1	EA	1850.00	1,850	630.00	630	2480.00	2,480
Speakers, ceiling mounted	43	EA	145.00	6,235	110.00	4,730	255.00	10,965
Speakers, ceiling mounted, weatherproof	3	EA	210.00	630	135.00	405	345.00	1,035
Volume controls	33	EA	20.00	660	40.00	1,320	60.00	1,980

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

09 - ELECTRICAL 093 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

FIRE ALERTING SYSTEM (Continued)

3/4" diameter EMT conduit	1,900	LF	1.29	2,451	5.12	9,728	6.41	12,179
Cat 6 speaker cable	2,280	LF	0.39	889	0.75	1,710	1.14	2,599

MISCELLANEOUS

Test and tag all special electrical systems	1	LOT	500.00	500	2000.00	2,000	2500.00	2,500
SUBTOTAL:				\$ 66,348		\$ 78,644		\$ 144,992
Labor Premium Time	16.70%					13,134		13,134
SUBTOTAL:				\$ 66,348		\$ 91,778		\$ 158,126
Subcontractor's Overhead and Profit on Material and Labor	20.00%			13,270		18,356		31,626

TOTAL ESTIMATED COST:	\$ 79,618		\$ 110,134		\$ 189,752	
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
401 WEST PIONEER DRIVE - VALDEZ, ALASKA
35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

HMS Project No.: 19027

10 - EQUIPMENT	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL MATERIAL/LABOR
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	
101 - Fixed and Movable Equipment			\$	\$	\$	\$	\$	\$
(4) burner gas ranges with ovens	2	EA	1480.00	2,960	120.00	240	1600.00	3,200
Stainless steel exhaust fans	2	EA	850.00	1,700	250.00	500	1100.00	2,200
Full size refrigerators	3	EA	1850.00	5,550	100.00	300	1950.00	5,850
Full size freezer	1	EA	1850.00	1,850	100.00	100	1950.00	1,950
Heavy duty dishwasher	1	EA	1275.00	1,275	150.00	150	1425.00	1,425
Heavy duty washer and dryer	1	SET	3000.00	3,000	350.00	350	3350.00	3,350
Commercial extractor at decontamination room	1	EA	8000.00	8,000	2000.00	2,000	10000.00	10,000
Commercial dryer at decontamination room	1	EA	4500.00	4,500	800.00	800	5300.00	5,300
Pre-drying cabinet at decontamination room	1	EA	600.00	600	100.00	100	700.00	700
Dell 70" LED monitor	1	EA	2400.00	2,400	300.00	300	2700.00	2,700
Dell 55" LED monitors	4	EA	1150.00	4,600	250.00	1,000	1400.00	5,600
Dell 70" interactive touch monitors	2	EA	5300.00	10,600	350.00	700	5650.00	11,300
Scuba compressor	1	EA	32600.00	32,600	750.00	750	33350.00	33,350
Scuba charge station	1	EA	26780.00	26,780	300.00	300	27080.00	27,080
Scuba storage rack	1	EA	14688.00	14,688	200.00	200	14888.00	14,888

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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DATE: 3/12/2019

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10 - EQUIPMENT	<i>QUANTITY</i>	<i>UNIT</i>	<i>MATERIAL</i>		<i>LABOR</i>		<i>TOTAL</i>	<i>TOTAL</i>
			<i>RATE</i>	<i>TOTAL</i>	<i>RATE</i>	<i>TOTAL</i>	<i>UNIT RATE</i>	<i>MATERIAL/LABOR</i>
101 - Fixed and Movable Equipment			\$	\$	\$	\$	\$	\$
Cascade fill (4) bottles	1	EA	3800.00	3,800	150.00	150	3950.00	3,950
24"x24"x74" turnout lockers	38	EA	425.00	16,150	60.00	2,280	485.00	18,430
24"x48"x74" storage lockers	35	EA	370.00	12,950	65.00	2,275	435.00	15,225
Exercise/fitness equipment (7 items)	1	LOT	45000.00	45,000	4000.00	4,000	49000.00	49,000
SUBTOTAL:				\$ 199,003		\$ 16,495		\$ 215,498
Labor Premium Time	16.70%					2,755		2,755
TOTAL ESTIMATED COST:				\$ 199,003		\$ 19,250		\$ 218,253

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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10 - EQUIPMENT 102 - Furnishings	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

Note: All furniture, beds, tables, desks, file cabinets, etc. with separate contract.

Walk-off mat	150	SF	13.00	1,950	1.10	165	14.10	2,115
Exterior window black out shades at dorms (7)	105	SF	12.00	1,260	3.50	368	15.50	1,628
Exterior window blinds (13)	445	SF	9.20	4,094	1.25	556	10.45	4,650
Interior window blinds	40	SF	9.20	368	1.25	50	10.45	418
SUBTOTAL:				\$ 7,672		\$ 1,139		\$ 8,811
Labor Premium Time	16.70%					190		190

TOTAL ESTIMATED COST:				\$ 7,672		\$ 1,329		\$ 9,001
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CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

MOBILIZATION AND DEMOBILIZATION

Mobilization and demobilization	1	LS	3000.00	3,000	5000.00	5,000	8000.00	8,000
Barge freight (incidental, rest with unit rates)	50	TONS	350.00	17,500	50.00	2,500	400.00	20,000
Miscellaneous air freight	2,500	LBS	1.25	3,125	0.25	625	1.50	3,750

SITE STAFF

Project manager (part-time)	240	HRS			115.00	27,600	115.00	27,600
Superintendent	15	MOS	200.00	3,000	13500.00	202,500	13700.00	205,500
Quality control (part-time)	12	MOS	150.00	1,800	6000.00	72,000	6150.00	73,800
Expediting (part-time)	13	MOS	150.00	1,950	3500.00	45,500	3650.00	47,450
Scheduling and estimating	13	MOS	150.00	1,950	3750.00	48,750	3900.00	50,700
Clerical/timekeeper	13	MOS	150.00	1,950	2850.00	37,050	3000.00	39,000

TEMPORARY CONSTRUCTION

Site trailer/office and equipment	13	MOS	1250.00	16,250	350.00	4,550	1600.00	20,800
Staging areas, signs, temporary protection, etc.	13	MOS	300.00	3,900	500.00	6,500	800.00	10,400
Utilities	13	MOS	1500.00	19,500	100.00	1,300	1600.00	20,800
Communications, faxes, etc.	13	MOS	600.00	7,800	50.00	650	650.00	8,450

CITY OF VALDEZ FIRE STATION #1 REPLACEMENT
 401 WEST PIONEER DRIVE - VALDEZ, ALASKA
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

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12 - GENERAL REQUIREMENTS	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

EQUIPMENT AND TOOLS

Earthwork equipment, pick-ups, trucks, pumps, welders, compressors, hoisting equipment, etc.	13	MOS	5200.00	67,600	500.00	6,500	5700.00	74,100
Scaffolding	6	MOS	1250.00	7,500	150.00	900	1400.00	8,400
Hand tools	13	MOS	1200.00	15,600			1200.00	15,600
Consumables: cleaning products, safety equipment, etc.	13	MOS	1750.00	22,750	100.00	1,300	1850.00	24,050
Fuel for equipment (400 gallons/month)	13	MOS	1400.00	18,200			1400.00	18,200
Equipment labor	240	HRS			65.00	15,600	65.00	15,600

MISCELLANEOUS

Miscellaneous materials testing	1	LOT	3500.00	3,500			3500.00	3,500
Regular clean-up	13	MOS	150.00	1,950	1250.00	16,250	1400.00	18,200
Final clean-up and punch list	18,438	SF	0.12	2,213	0.28	5,163	0.40	7,376
Dumpsters (2)	13	MOS	800.00	10,400			800.00	10,400
Porta cans and cleaning (3)	13	MOS	250.00	3,250	50.00	650	300.00	3,900
Regular debris disposal	13	MOS	350.00	4,550	750.00	9,750	1100.00	14,300
Daily loading and unloading	13	MOS	150.00	1,950	1300.00	16,900	1450.00	18,850

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[illegible]

LABOR EMPLOYMENT COSTS

Per diem (85% imported crew)	4,385	MD	165.00	723,525	165.00	723,525
Travel costs (85% imported crew)	130	RT	500.00	65,000	500.00	65,000

MISCELLANEOUS

State of Alaska Dept. of Labor filing fee (1% of labor)	1	LOT	5000.00	5,000	5000.00	5,000
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SUBTOTAL:	\$ 1,034,713	\$ 527,538	\$ 1,562,251
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Home Office	3.00%	313,624
Overhead and Profit	8.50%	915,258
Bonds	0.85%	99,305
Insurances	1.15%	135,496

TOTAL ESTIMATED COST:		\$ 3,025,934
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13 - CONTINGENCIES	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

131 - ESTIMATOR'S CONTINGENCY

The estimator's allowance for architectural and engineering requirements that are not apparent at this level of design documentation

7.50%

\$ 893,835

132 - ESCALATION CONTINGENCY

The allowance for escalation from the date of estimate to the proposed bid date of January 1, 2020 at the rate of 3.50% per annum (10 months)

2.91%

\$ 372,819

TOTAL ESTIMATED COST:

\$ 1,266,654