

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

HMS Project No.: 19027

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: 18,438 SF

(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: 2,180 SF

HMS Project No.: 19027

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 |

HMS Project No.: 19027

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 |

HMS Project No.: 19027

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

DATE: 3/12/2019

HMS Project No.: 19027

| 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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DATE: 3/12/2019

HMS Project No.: 19027

| 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 |

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

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 |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 012 - Site Preparation and Demolition | | | | | | | | |
| 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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 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 19027

| 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 |
|------------------------------|-------------------|-------------------|-------------------|

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

HMS Project No.: 19027

| 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 |
|------------------------------|------------------|------------------|------------------|

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

HMS Project No.: 19027

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

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 |

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

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

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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 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 19027

| 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 |
|---------------------------|----|----|--------|-------|--------|-------|--------|-------|

Shrubs

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

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 |

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

DATE: 3/12/2019

HMS Project No.: 19027

| 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 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

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

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

| | | | | | | | | |
|--|-------|-----|---------|--------|---------|--------|---------|--------|
| 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

HMS Project No.: 19027

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

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

HMS Project No.: 19027

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

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 |

HMS Project No.: 19027

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

SEWER (Continued)

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

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

HMS Project No.: 19027

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

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

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 |
|--|----|----|------|-----|-------|-----|-------|-----|

TRUCK FUELING STATION

NIC

| | | | | | | | | |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| SUBTOTAL: | | | | \$ 216,839 | | \$ 164,864 | | \$ 381,703 |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

| | | | | | | | | |
|--------------------|--------|--|--|--|--|--------|--|--------|
| Labor Premium Time | 16.70% | | | | | 27,532 | | 27,532 |
|--------------------|--------|--|--|--|--|--------|--|--------|

| | | | | | | | | |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| SUBTOTAL: | | | | \$ 216,839 | | \$ 192,396 | | \$ 409,235 |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

| | | | | | | | | |
|---|--------|--|--|--------|--|--------|--|--------|
| Subcontractor's Overhead and Profit on Material and Labor | 20.00% | | | 43,368 | | 38,479 | | 81,847 |
|---|--------|--|--|--------|--|--------|--|--------|

| | | | | | | | | |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| TOTAL ESTIMATED COST: | | | | \$ 260,207 | | \$ 230,875 | | \$ 491,082 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

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

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

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 |

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 |
|---|---|----|----------|--------|---------|-------|----------|--------|

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 |

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 |
|---|---|----|---------|-------|---------|-------|---------|--------|

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

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 |
|------------------------------|-------------------|-------------------|-------------------|

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

HMS Project No.: 19027

| 02 - SUBSTRUCTURE | <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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 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 |
| <u>MISCELLANEOUS</u> | | | | | | | | |
| 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 |

HMS Project No.: 19027

| 02 - SUBSTRUCTURE | <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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 021 - Standard Foundations | | | | | | | | |

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 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

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

HMS Project No.: 19027

| 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

HMS Project No.: 19027

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

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 |
|------------------------------|--|--|--|-------------------|--|------------------|--|-------------------|

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

DATE: 3/12/2019

HMS Project No.: 19027

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

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
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

| 03 - SUPERSTRUCTURE | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|---|----------|------|----------|-------------------|---------|-------------------|-----------|-------------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 032 - Roof Construction | | | | | | | | |
| 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 |

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

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

| 04 - EXTERIOR CLOSURE | <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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 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 |

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

DATE: 3/12/2019

HMS Project No.: 19027

| 04 - EXTERIOR CLOSURE | <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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 041 - Exterior Walls | | | | | | | | |
| 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 |

HMS Project No.: 19027

| 04 - EXTERIOR CLOSURE | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|--|-----------------|-------------|-----------------|--------------|--------------|--------------|------------------|-----------------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 042 - Exterior Doors and Windows | | | | | | | | |
| 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 |

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

HMS Project No.: 19027

| 04 - EXTERIOR CLOSURE | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|---|-----------------|-------------|-----------------|-------------------|--------------|------------------|------------------|-----------------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 042 - Exterior Doors and Windows | | | | | | | | |
| 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 |

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

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

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

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 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

HMS Project No.: 19027

| 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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 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 |

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

DATE: 3/12/2019

HMS Project No.: 19027

| 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 |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

| | | | | | | | | |
|--------------------|--------|--|--|--|--|--------|--|--------|
| Labor Premium Time | 16.70% | | | | | 20,726 | | 20,726 |
|--------------------|--------|--|--|--|--|--------|--|--------|

| | | | | | | | | |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| TOTAL ESTIMATED COST: | | | | \$ 131,434 | | \$ 144,834 | | \$ 276,268 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

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

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

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

HMS Project No.: 19027

| 06 - INTERIOR CONSTRUCTION | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|-----------------------------------|----------|--------|----------|-------|-------|--------|-----------|----------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 062 - Interior Finishes | | | | | | | | |
| Labor Premium Time | | 16.70% | | | | 29,774 | | 29,774 |

| | | | |
|------------------------------|-------------------|-------------------|-------------------|
| TOTAL ESTIMATED COST: | \$ 143,505 | \$ 208,062 | \$ 351,567 |
|------------------------------|-------------------|-------------------|-------------------|

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

HMS Project No.: 19027

| 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 |
|----------------------|----|----|-------|-----|-------|-----|-------|-----|

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

HMS Project No.: 19027

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

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

HMS Project No.: 19027

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

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 |
|------------------|--|--|--|------------------|--|------------------|--|------------------|

| | | | | | | | | |
|--------------------|--------|--|--|--|--|-------|--|-------|
| Labor Premium Time | 16.70% | | | | | 3,500 | | 3,500 |
|--------------------|--------|--|--|--|--|-------|--|-------|

| | | | | | | | | |
|------------------------------|--|--|--|------------------|--|------------------|--|-------------------|
| TOTAL ESTIMATED COST: | | | | \$ 75,885 | | \$ 24,459 | | \$ 100,344 |
|------------------------------|--|--|--|------------------|--|------------------|--|-------------------|

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

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

| 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
 35% DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

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

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 |
|-------------------------------------|-----|----|-------|-------|-------|-------|-------|-------|

HMS Project No.: 19027

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

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 |
|--|---|-----|--------|-------|--------|-------|--------|-------|

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

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

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 |

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

HMS Project No.: 19027

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

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 |

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

DATE: 3/12/2019

HMS Project No.: 19027

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

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 |
|------------------------------|-------------------|-------------------|-------------------|

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

HMS Project No.: 19027

| 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

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

HMS Project No.: 19027

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

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

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 |

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)

| | | | | | | | | |
|--|----|----|---------|-------|--------|-------|---------|--------|
| 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 |

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)

| | | | | | | | | |
|---|-------|----|--------|-------|-------|-------|--------|-------|
| 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 |

HMS Project No.: 19027

| 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

HMS Project No.: 19027

| 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

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 |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |

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

HMS Project No.: 19027

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

| | | | | |
|---|--------|--------|--------|---------|
| Subcontractor's Overhead and Profit on Material and Labor | 20.00% | 77,282 | 68,731 | 146,013 |
|---|--------|--------|--------|---------|

| | | | |
|------------------------------|-------------------|-------------------|-------------------|
| TOTAL ESTIMATED COST: | \$ 463,693 | \$ 412,386 | \$ 876,079 |
|------------------------------|-------------------|-------------------|-------------------|

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

DATE: 3/12/2019

HMS Project No.: 19027

| 08 - MECHANICAL | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|--|----------|------|----------|------------------|---------|------------------|-----------|-------------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 083 - Fire Protection | | | | | | | | |
| 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 |

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

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

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

HMS Project No.: 19027

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

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 |

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

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

| 09 - ELECTRICAL | QUANTITY | UNIT | MATERIAL | | LABOR | | TOTAL | TOTAL |
|---|----------|------|----------|------------------|---------|------------------|-----------|-------------------|
| | | | RATE | TOTAL | RATE | TOTAL | UNIT RATE | MATERIAL/LABOR |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 091 - Service and Distribution | | | | | | | | |
| #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 |
| MISCELLANEOUS | | | | | | | | |
| 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 |

HMS Project No.: 19027

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

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 |

HMS Project No.: 19027

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

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

HMS Project No.: 19027

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

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 |

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

HMS Project No.: 19027

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

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 |

HMS Project No.: 19027

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

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

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)

| | | | | | | | | |
|-----------------|--------|----|------|-------|------|--------|------|--------|
| #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 |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

| | | | | | | | | |
|--------------------|--------|--|--|--|--|--------|--|--------|
| Labor Premium Time | 16.70% | | | | | 24,190 | | 24,190 |
|--------------------|--------|--|--|--|--|--------|--|--------|

| | | | | | | | | |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| SUBTOTAL: | | | | \$ 108,105 | | \$ 169,039 | | \$ 277,144 |
|------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

| | | | | | | | | |
|---|--------|--|--|--------|--|--------|--|--------|
| Subcontractor's Overhead and Profit on Material and Labor | 20.00% | | | 21,621 | | 33,808 | | 55,429 |
|---|--------|--|--|--------|--|--------|--|--------|

| | | | | | | | | |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|
| TOTAL ESTIMATED COST: | | | | \$ 129,726 | | \$ 202,847 | | \$ 332,573 |
|------------------------------|--|--|--|-------------------|--|-------------------|--|-------------------|

HMS Project No.: 19027

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

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 |

HMS Project No.: 19027

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

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

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 |

HMS Project No.: 19027

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

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 |
|------------------------------|--|--|--|------------------|--|-------------------|--|-------------------|

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

HMS Project No.: 19027

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

HMS Project No.: 19027

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

DATE: 3/12/2019

HMS Project No.: 19027

| 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> |
| | | | \$ | \$ | \$ | \$ | \$ | \$ |
| 102 - Furnishings | | | | | | | | |

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 |
|------------------------------|--|--|--|-----------------|--|-----------------|--|-----------------|

HMS Project No.: 19027

| 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 |

HMS Project No.: 19027

| 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 |

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

HMS Project No.: 19027

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

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 |
|--|---|-----|---------|-------|--|--|---------|-------|

| | | | | | | | | |
|------------------|--|--|--|---------------------|--|--|-------------------|---------------------|
| SUBTOTAL: | | | | \$ 1,034,713 | | | \$ 527,538 | \$ 1,562,251 |
|------------------|--|--|--|---------------------|--|--|-------------------|---------------------|

| | | | | | | | | |
|---------------------|-------|--|--|--|--|--|--|---------|
| 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 |
|------------------------------|--|--|--|--|--|--|--|---------------------|

HMS Project No.: 19027

| 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