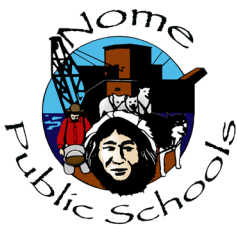




# NOME PUBLIC SCHOOLS SECURITY AND ADA UPGRADES CIP APPLICATION

NARRATIVE  
DRAWINGS  
COST ESTIMATE

**AUGUST 5, 2022**



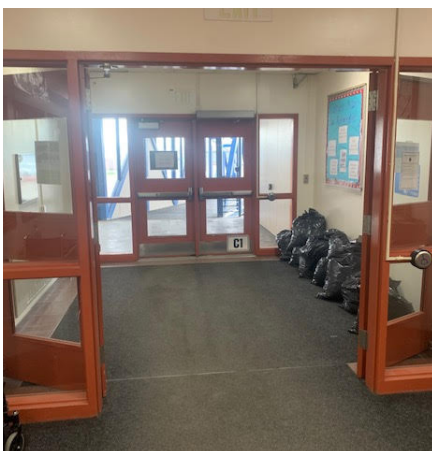
BETTISWORTH  
**NORTH**



*Nome-Beltz Entrance*



*Nome-Beltz Bus Entrance*



*Nome Elementary School Entrance*

## NOME PUBLIC SCHOOLS SECURITY AND ADA UPGRADES

The Nome Public Schools have identified a need to upgrade their security at the front entries of the Nome-Beltz Junior and Senior High School and the Nome Elementary School. The entries are currently unlocked during the school day, allowing anyone to walk in, in some cases undetected. This is an obvious safety concern for both the students and the staff, particularly given recent security threats such as school shootings. The schools also need accessibility upgrades at entrances so students and visitors can access the school with greater ease.

Main entries at both the Nome-Beltz Junior and Senior High School and the Nome Elementary School are currently equipped with video surveillance cameras as part of the Verkada video system. Both schools have a camera that shows the approach to the main entry, and Nome-Beltz has a camera inside of the main vestibule. The Nome Elementary School has a camera just inside of the school that looks through the glass doors at the vestibule, giving a clear view of visitors. The cameras can be monitored by the receptionist, and the District can set up this access without additional hardware. Once a visitor is inside either vestibule, they will be required to ring a video intercom to notify the receptionists of their presence. Basis of design for the video intercom is the Aiphone JP series or equal. The receptionists will be able to converse with the visitor and see their face on a master station, and then remotely unlock the doors to allow entry if desired. The video intercom system will not feed into the server or be paired with the existing system, but will give a facial view of visitors as opposed to the broad and sideways view given by general surveillance cameras. Interior vestibule doors will be locked during school hours with card reader access provided for staff. The access control system will be specified as Verkada so that it can be integrated with the video system, making it simpler for District personnel to manage. Door controllers, card readers, and key fobs or cards will be supplied as part of the system. The door controllers will be connected to the Aiphone stations, allowing the receptionist to see and hear visitors, and then release the door from the same system.

New doors and hardware are slated for some entry doors at both schools. Nome-Beltz will have new doors at both the interior and exterior of the vestibule. Both sets of doors will have new ADA automatic operators and push buttons. The interior set of doors will be a hollow metal frame with a transom and sidelites. This interior door will have a new card reader. The exterior double doors and frame will be insulated hollow metal. Nome-Beltz bus access will also receive a new insulated hollow metal double door and frame and new ADA operator and push button. An existing single leaf door in the exterior wall, next to the double doors, will be removed and infilled with an exterior wall assembly and a triple-pane window. The Nome Elementary School vestibule double doors will also receive new door hardware, including exit devices and latching mechanisms.





*Nome-Beltz Entrance*



*Nome-Beltz Entrance*



*Nome-Beltz Flooring*

The interior of the Nome-Beltz vestibule will receive a new grate and new walk off mat after demolition of the existing flooring. New rubber base and wall paint will be provided as well. The perimeter of the vestibule is painted concrete, which will require repair and repainting. Walk off mat basis of design is as follows:

Shaw Contract  
All Access Collection  
Jive Tile  
24x24  
Solution-dyed nylon  
High performance, dimensionally-stable modular backing  
Tufted Weight 30 oz/yd<sup>2</sup>  
Lifetime commercial limited warranty

Nome-Beltz has two site issues to remediate for accessibility concerns. First is the sidewalk concrete at the Nome-Beltz entry. Heaving has caused substantial unevenness between concrete slabs, creating sizable differences in elevation of the slabs' surfaces. This concrete will be removed and replaced, comparable to the existing configuration. A large area of concrete poured at the bus access, approximately 30'x30', as well. This is currently gravel and is not ADA compliant.

### **DESIGN TEAM**

#### **Architecture:**

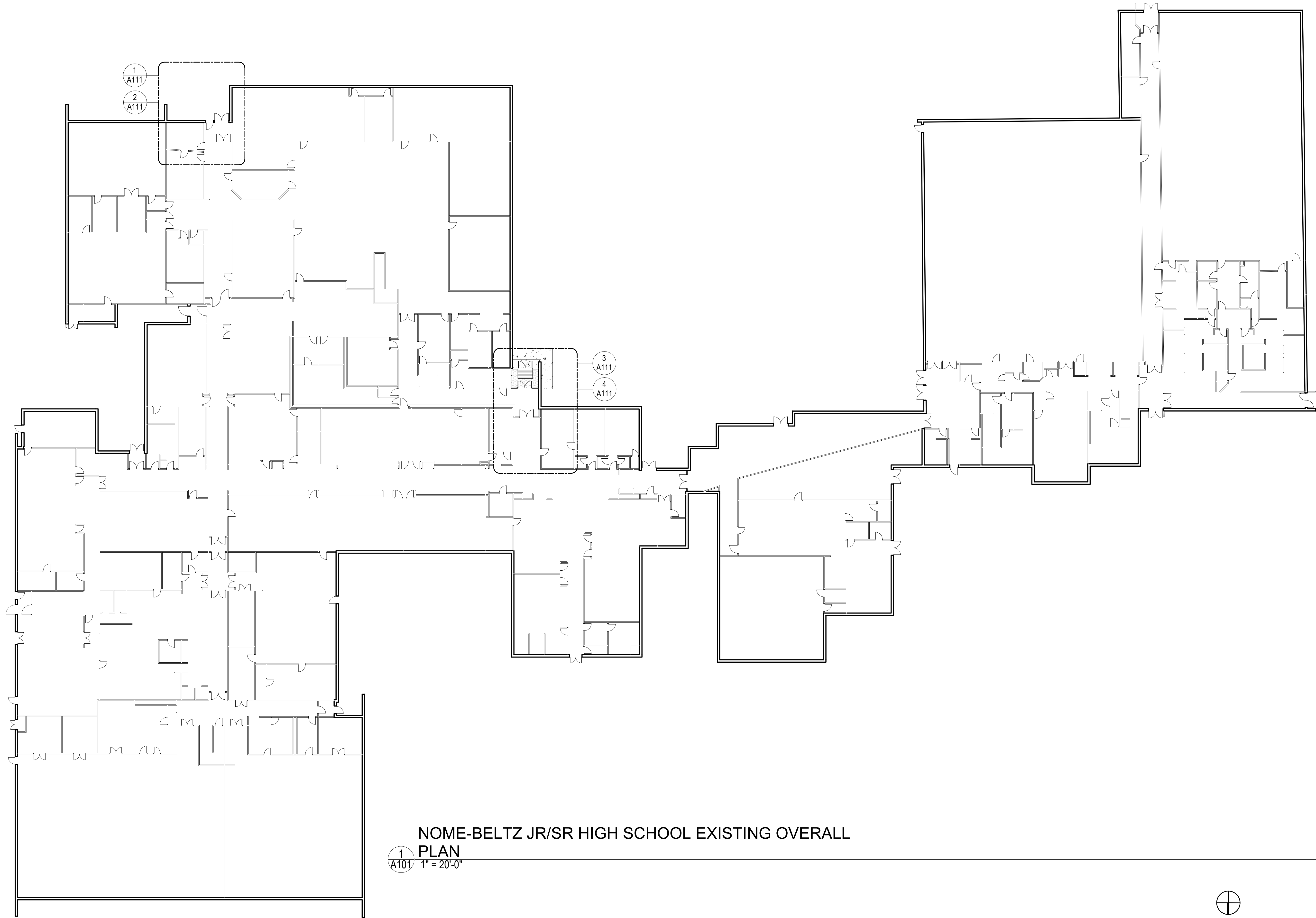
Kate Incarnato, Bettisworth North  
kincarnato@bettisworthnorth.com  
(732) 259-1342

#### **Electrical/IT:**

Jeremy Maxie, RSA Engineering  
jmaxie@rsa-ak.com  
(907) 952-4399



*Nome-Beltz Walk Off Mat*



NOME-BELTZ JR/SR HIGH SCHOOL EXISTING OVERALL  
PLAN  
1  
A101 1" = 20'-0"



**NOT FOR CONSTRUCTION**

[illegible]

# A101

NOME PUBLIC SCHOOLS  
**NOME PUBLIC SCHOOLS - SECURITY  
& ADA UPGRADES**  
NOME, ALASKA

## CIP CONCEPT DESIGN

**BETTISWORTH  
NORTH**

CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

[illegible]

CONSULTANT:

PROJECT NO: 22-149  
DATE: 2022-08-05  
DRAWN BY: KEI  
CHECKED BY: KEI

[illegible]

NOME ELEMENTARY SCHOOL -  
EXISTING OVERALL PLAN

**A102**

BETTISWORTH NORTH ARCHITECTS &amp; PLANNERS®

NOME PUBLIC SCHOOLS  
**NOME PUBLIC SCHOOLS - SECURITY  
& ADA UPGRADES**  
NOME, ALASKA

## CIP CONCEPT DESIGN

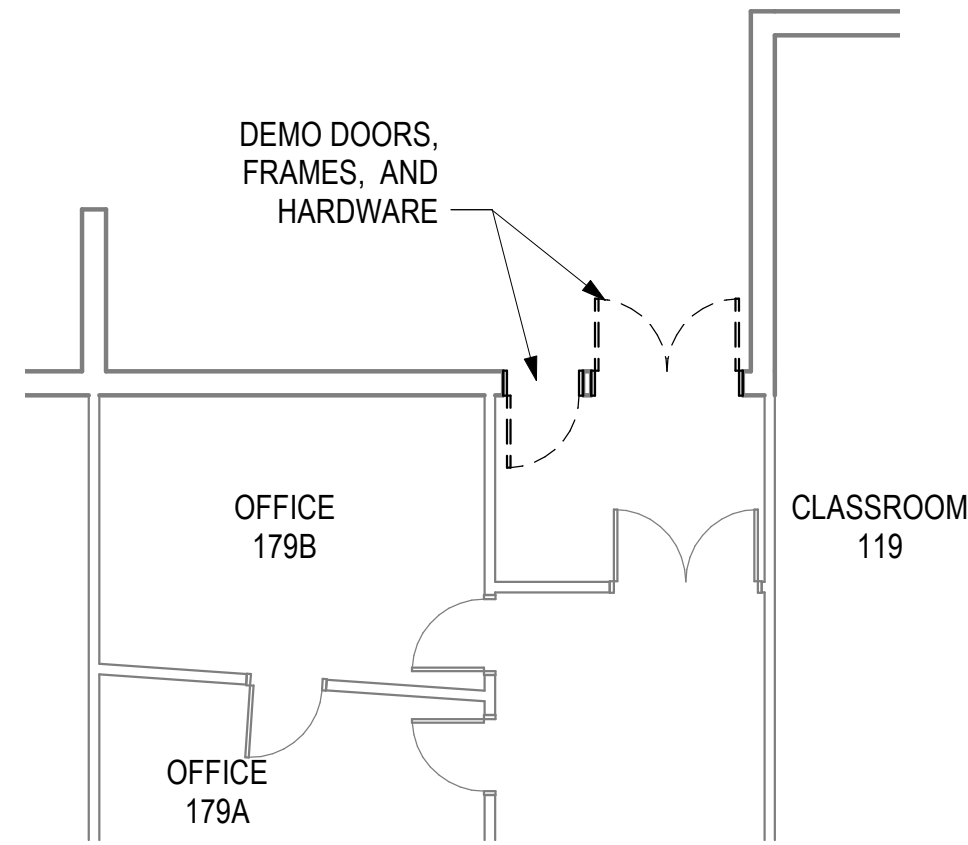
CORPORATE NO. AECC219 BETTISWORTHNORTH.COM

# BETTISWORTH NORTH

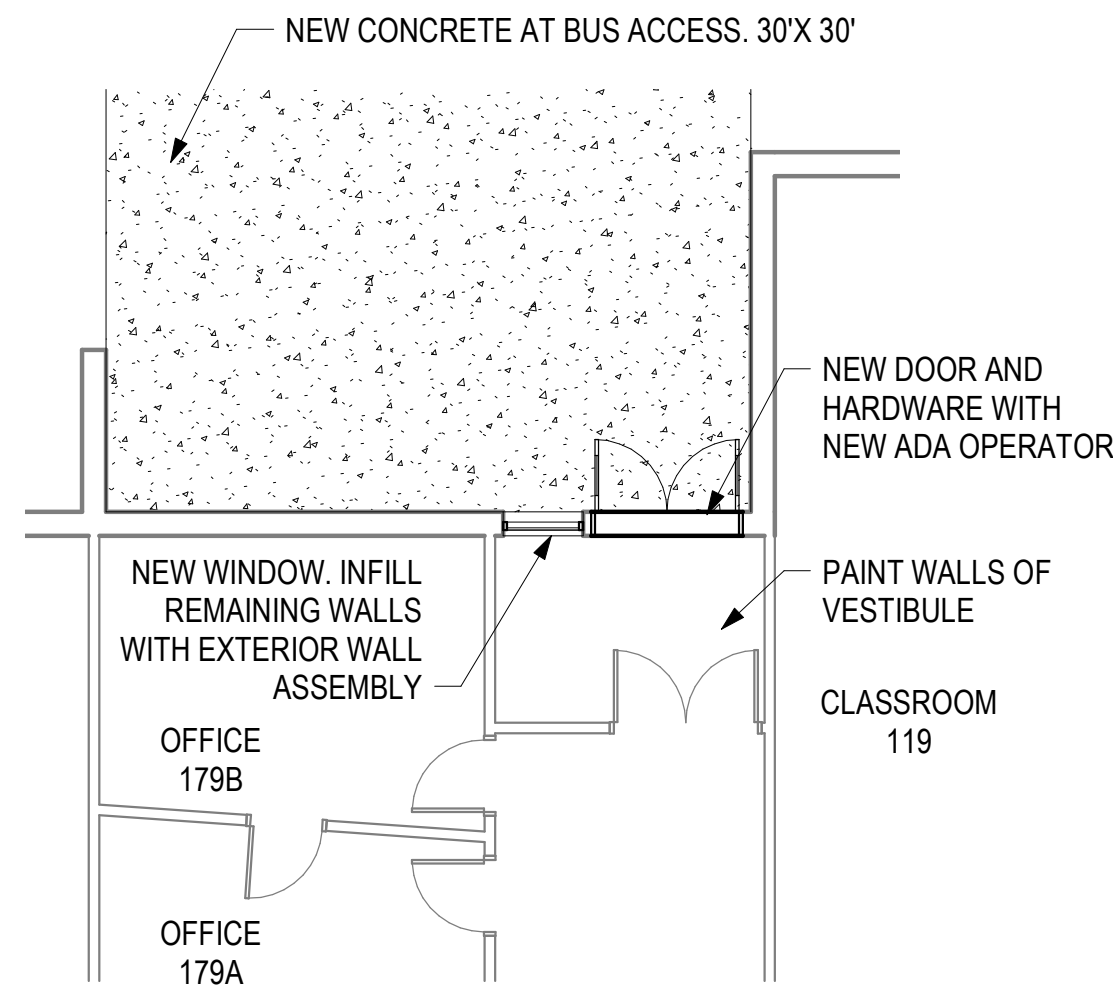
IF THIS DIMENSION DOES NOT MEASURE ONE INCH (1") EXACTLY, THIS DRAWING  
HAS BEEN ENLARGED OR REDUCED, AFFECTING ALL LABELED SCALES

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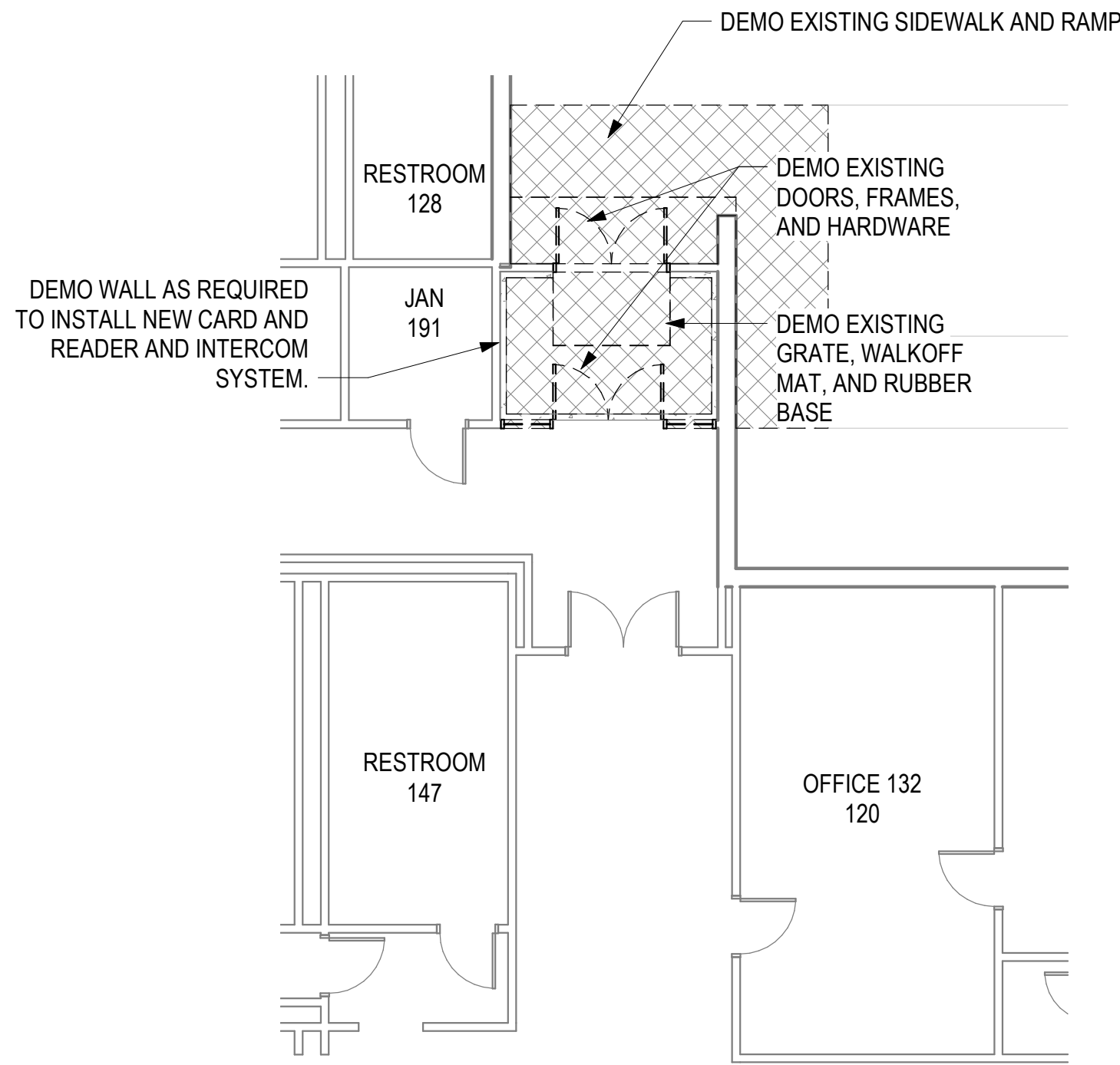
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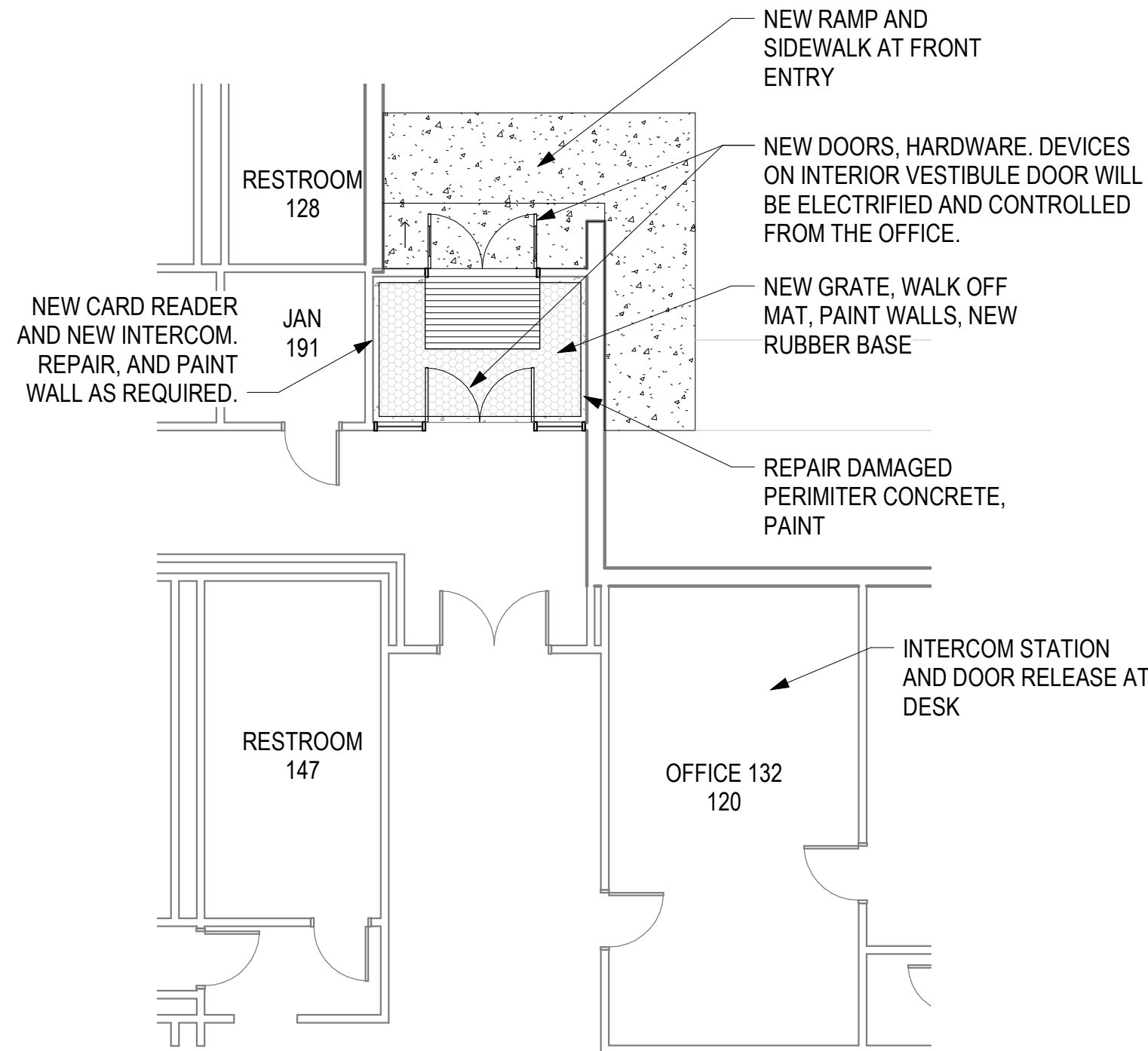
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A111 NOME-BELTZ BUS ACCESS - DEMO  
1/8" = 1'-0"



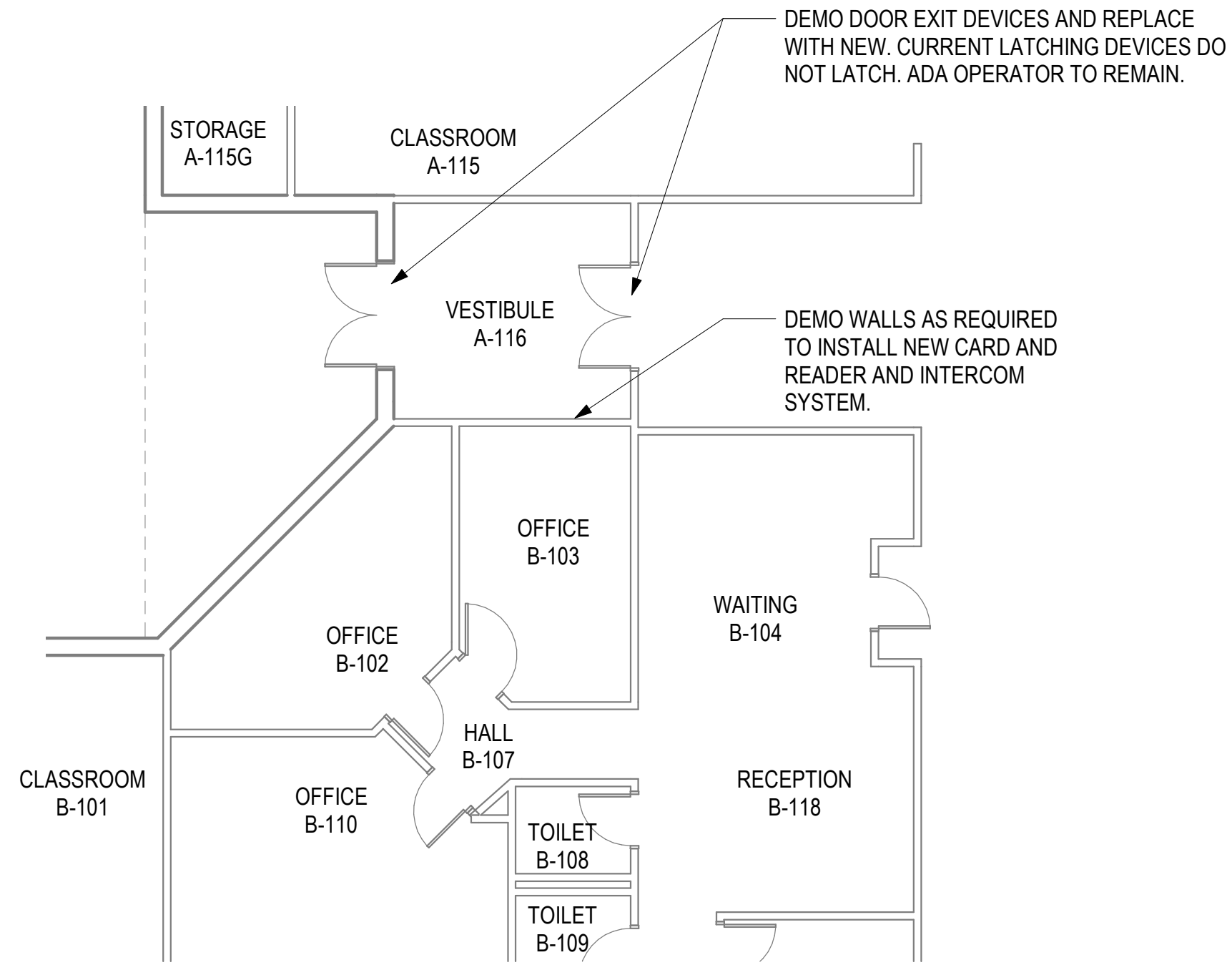
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A111 NOME-BELTZ BUS ACCESS - NEW  
1/8" = 1'-0"



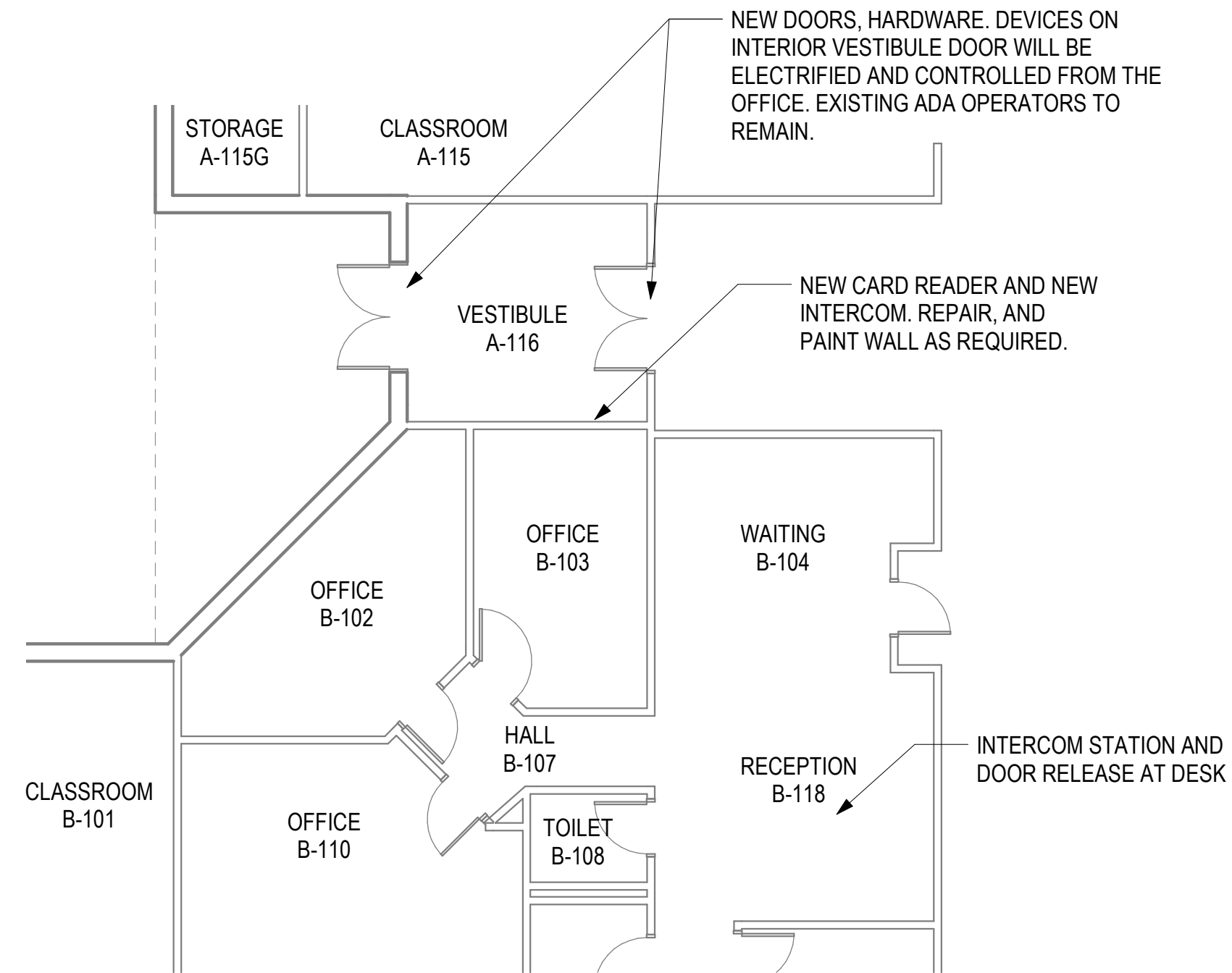
3  
A111 NOME-BELTZ MAIN ENTRY - DEMO  
1/8" = 1'-0"



4  
A111 NOME-BELTZ MAIN ENTRY - NEW  
1/8" = 1'-0"



5  
A111 ELEMENTARY SCHOOL MAIN ENTRY - DEMO  
1/8" = 1'-0"



6  
A111 ELEMENTARY SCHOOL MAIN ENTRY - NEW  
1/8" = 1'-0"



BETTISWORTH  
NORTH

NOME PUBLIC SCHOOLS  
NOME PUBLIC SCHOOLS - SECURITY  
& ADA UPGRADES  
NOME, ALASKA

CIP CONCEPT DESIGN

CONSULTANT:

PROJECT NO: 22-149  
DATE: 2022-08-05  
DRAWN BY: KEI  
CHECKED BY: KEI

REVISION	DESCRIPTION	DATE

ENLARGED PLANS

A111

BETTISWORTH NORTH ARCHITECTS & PLANNERS®

NOT FOR CONSTRUCTION



CONCEPT DESIGN SUBMITTAL  
CONSTRUCTION COST ESTIMATE (REVISION 1)

NOME PUBLIC SCHOOLS  
SECURITY AND ADA UPGRADES  
NOME, ALASKA

*PREPARED FOR:*

Bettisworth North  
2600 Denali Street, Suite 710  
Anchorage, Alaska 99503

August 2, 2022



HMS Project No.: 22084

## **NOTES REGARDING THE PREPARATION OF THIS ESTIMATE**

### **DRAWINGS AND DOCUMENTS**

*Level of Documents:* (3) concept design drawings and specifications  
*Date:* July 22, 2022  
*Provided By:* Bettisworth North of Anchorage, 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%  
*Subcontractor's Mark-Up:* 25.00%

### **BIDDING ASSUMPTIONS**

*Contract:* Standard construction contract without restrictive bidding clauses  
*Bidding Situation:* Competitive bids assumed  
*Bid Date:* Spring 2024  
*Start of Construction:* Summer 2024  
*Construction Time:* Within (1) month

### **EXCLUDED COSTS**

1. A/E design fees
2. Administrative and management costs
3. Remediation of contaminated soils, if found during construction
4. Hazmat abatement of school, with the exception of that provided for in the estimate
5. Apprenticeship program costs



HMS Project No.: 22084

### ***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. 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.

Due to the rapidly evolving nature of the COVID-19 coronavirus pandemic and its affect on the economy, and more specifically the construction industry, HMS Inc. is incorporating an additional contingency titled '**Unique Market Risk**'. The amount provided for in the estimate will be adjusted as the situation continues to change and the effect on construction pricing becomes more quantifiable.

Due to the small size of this project, this estimate excludes apprenticeship program costs.

#### **GROSS FLOOR AREA**

Upgrades to Existing School Vestibule and Front Office	<u><b>1,430 SF</b></u>
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HMS Project No.: 22084

**CONCEPT DESIGN COST SUMMARY**

	<i>Material</i>	<i>Labor</i>	<i>Total</i>
01 - SITE WORK	\$ 21,593	\$ 13,493	\$ 35,086
02 - SUBSTRUCTURE	0	0	0
03 - SUPERSTRUCTURE	0	0	0
04 - EXTERIOR CLOSURE	19,449	8,034	27,483
05 - ROOF SYSTEMS	0	0	0
06 - INTERIOR CONSTRUCTION	16,778	7,417	24,195
07 - CONVEYING SYSTEMS	0	0	0
08 - MECHANICAL	0	0	0
09 - ELECTRICAL	16,797	14,177	30,974
10 - EQUIPMENT	0	0	0
11 - SPECIAL CONSTRUCTION	0	0	0
<i>SUBTOTAL:</i>	<i>\$ 74,617</i>	<i>\$ 43,121</i>	<i>\$ 117,738</i>
12 - GENERAL REQUIREMENTS			70,195
<i>SUBTOTAL:</i>			<i>\$ 187,933</i>
13 - CONTINGENCIES			82,243
<b>TOTAL ESTIMATED CONSTRUCTION COST:</b>			<b>\$ 270,176</b>
COST PER SQUARE FOOT:			\$ 188.93 /SF
GROSS FLOOR AREA:			1,430 SF

HMS Project No.: 22084

### **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>
<b>01 - SITE WORK</b>				<b>\$ 35,086</b>	<b>\$ 24.54</b>
011 - Selective Demolition	\$ 250	\$ 1,760	\$ 2,010		1.41
012 - Site Preparation	3,787	1,705	5,492		3.84
013 - Site Improvements	17,556	10,028	27,584		19.29
014 - Site Mechanical	0	0	0		0.00
015 - Site Electrical	0	0	0		0.00
<b>02 - SUBSTRUCTURE</b>				<b>\$ 0</b>	<b>\$ 0.00</b>
021 - Standard Foundations	\$ 0	\$ 0	\$ 0		0.00
022 - Slab on Grade	0	0	0		0.00
023 - Basement	0	0	0		0.00
024 - Special Foundations	0	0	0		0.00
<b>03 - SUPERSTRUCTURE</b>				<b>\$ 0</b>	<b>\$ 0.00</b>
031 - Floor Construction	\$ 0	\$ 0	\$ 0		0.00
032 - Roof Construction	0	0	0		0.00
033 - Stair Construction	0	0	0		0.00
<b>04 - EXTERIOR CLOSURE</b>				<b>\$ 27,483</b>	<b>\$ 19.22</b>
041 - Exterior Walls	\$ 1,000	\$ 1,751	\$ 2,751		1.92
042 - Exterior Doors and Windows	18,449	6,283	24,732		17.30
<b>05 - ROOF SYSTEMS</b>				<b>\$ 0</b>	<b>\$ 0.00</b>
051 - Roofing	\$ 0	\$ 0	\$ 0		0.00
052 - Skylights	0	0	0		0.00
<b>06 - INTERIOR CONSTRUCTION</b>				<b>\$ 24,195</b>	<b>\$ 16.92</b>
061 - Partitions and Doors	\$ 13,964	\$ 4,849	\$ 18,813		13.16
062 - Interior Finishes	2,814	2,568	5,382		3.76
063 - Specialties	0	0	0		0.00
<b>07 - CONVEYING SYSTEMS</b>	<b>\$ 0</b>	<b>\$ 0</b>		<b>\$ 0</b>	<b>\$ 0.00</b>

HMS Project No.: 22084

### 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>
<b>08 - MECHANICAL</b>				<b>\$ 0</b>	<b>\$ 0.00</b>
081 - Demolition	\$ 0	\$ 0	\$ 0		0.00
082 - Plumbing	0	0	0		0.00
083 - HVAC	0	0	0		0.00
084 - Fire Protection	0	0	0		0.00
085 - Special Mechanical Systems	0	0	0		0.00
<b>09 - ELECTRICAL</b>				<b>\$ 30,974</b>	<b>\$ 21.66</b>
091 - Demolition	\$ 0	\$ 0	\$ 0		0.00
092 - Service and Distribution	75	175	250		0.17
093 - Lighting and Power	536	3,118	3,654		2.56
094 - Special Electrical Systems	16,186	10,884	27,070		18.93
<b>10 - EQUIPMENT</b>				<b>\$ 0</b>	<b>\$ 0.00</b>
101 - Fixed and Movable Equipment	\$ 0	\$ 0	\$ 0		0.00
102 - Furnishings	0	0	0		0.00
<b>11 - SPECIAL CONSTRUCTION</b>	<b>\$ 0</b>	<b>\$ 0</b>		<b>\$ 0</b>	<b>\$ 0.00</b>
<b>SUBTOTAL DIRECT WORK:</b>	<b>\$ 74,617</b>	<b>\$ 43,121</b>		<b>\$ 117,738</b>	
<b>12 - GENERAL REQUIREMENTS</b>				<b>\$ 70,195</b>	<b>\$ 49.09</b>
121 - Mobilization			\$ 2,676		1.87
122 - Operation Costs			36,814		25.74
123 - Profit			30,705		21.47
<b>13 - CONTINGENCIES</b>				<b>\$ 82,243</b>	<b>\$ 57.51</b>
131 - Estimator's Contingency	30.00%		\$ 56,380		39.43
131 - Unique Market Risk	5.00%		12,216		8.54
132 - Escalation Contingency	5.32%		13,647		9.54
<b>TOTAL ESTIMATED CONSTRUCTION COST:</b>				<b>\$ 270,176</b>	<b>\$188.93 /SF</b>
<b>GROSS FLOOR AREA:</b>					<b>1,430 SF</b>

NOME PUBLIC SCHOOLS SECURITY AND ADA UPGRADES  
 NOME, ALASKA  
 CONCEPT DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE (REVISION 1)

PAGE 7

DATE: 8/2/2022

HMS Project No.: 22084

<b>01 - SITE WORK</b>	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
<b>011 - Selective Demolition</b>			\$	\$	\$	\$	\$	\$
Demolish concrete sidewalk	200	SF			2.10	420	2.10	420
Demolish existing grate	26	SF			1.20	31	1.20	31
Demolish existing walk-off mat	59	SF			1.20	71	1.20	71
Demolish double door, frame and hardware	3	EA			120.00	360	120.00	360
Demolish single metal door assembly	1	EA			80.00	80	80.00	80
Demolish door hardware	2	EA			80.00	160	80.00	160
Demolish rubber base	45	LF			0.80	36	0.80	36
Load and dispose debris	1	LD	250.00	250	350.00	350	600.00	600
<b>SUBTOTAL:</b>				<b>\$ 250</b>		<b>\$ 1,508</b>		<b>\$ 1,758</b>
Labor Premium Time	16.70%					252		252
<b>TOTAL ESTIMATED COST:</b>				<b>\$ 250</b>		<b>\$ 1,760</b>		<b>\$ 2,010</b>



NOME PUBLIC SCHOOLS SECURITY AND ADA UPGRADES  
 NOME, ALASKA  
 CONCEPT DESIGN SUBMITTAL CONSTRUCTION COST ESTIMATE (REVISION 1)

PAGE 8

DATE: 8/2/2022

HMS Project No.: 22084

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

EARTHWORK

Excavate and dispose average 18" deep for new hardscapes	57	CY	4.50	257	10.20	581	14.70	838
Cap hardscape and driveway excavation with 24" fill	88	CY	35.00	3,080	10.00	880	45.00	3,960
Soil compaction test	2	EA	225.00	450			225.00	450
<b>SUBTOTAL:</b>				<b>\$ 3,787</b>		<b>\$ 1,461</b>		<b>\$ 5,248</b>
Labor Premium Time	16.70%					244		244

<b>TOTAL ESTIMATED COST:</b>				<b>\$ 3,787</b>		<b>\$ 1,705</b>		<b>\$ 5,492</b>
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HMS Project No.: 22084

01 - SITE WORK  013 - Site Improvements	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

CONCRETE SURFACES

2" compacted D1 base course	13	CY	42.00	546	14.00	182	56.00	728
6" reinforced concrete	900	SF	11.00	9,900	4.80	4,320	15.80	14,220
4" broom finished reinforced concrete	200	SF	7.50	1,500	3.75	750	11.25	2,250
6"x48" concrete filled bollard and base	3	EA	550.00	1,650	375.00	1,125	925.00	2,775
Dowling of concrete slab into building	26	EA	15.00	390	26.00	676	41.00	1,066
Thickened edge	162	LF	17.00	2,754	5.20	842	22.20	3,596
1/2" expansion joint at building	52	LF	0.70	36	1.50	78	2.20	114
Extra for handicapped ramp/curb cuts (1)	120	SF	3.00	360	4.00	480	7.00	840

GRAVEL ACCESS TO BUS ACCESS

2" compacted D1 leveling course	10	CY	42.00	420	14.00	140	56.00	560
SUBTOTAL:				\$ 17,556		\$ 8,593		\$ 26,149
Labor Premium Time	16.70%					1,435		1,435

<b>TOTAL ESTIMATED COST:</b>				<b>\$ 17,556</b>		<b>\$ 10,028</b>		<b>\$ 27,584</b>
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HMS Project No.: 22084

04 - EXTERIOR CLOSURE  041 - Exterior Walls	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Allowance for miscellaneous infill in exterior wall	1	LOT	1000.00	1,000	1500.00	1,500	2500.00	2,500
SUBTOTAL:				\$ 1,000		\$ 1,500		\$ 2,500
Labor Premium Time	16.70%					251		251
TOTAL ESTIMATED COST:				\$ 1,000		\$ 1,751		\$ 2,751

HMS Project No.: 22084

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

DOORS

6'0"x7'0" insulated hollow metal frame	2	EA	370.00	740	130.00	260	500.00	1,000
3'0"x7'0" insulated hollow metal flush single door with full relite	2	PR	1500.00	3,000	110.00	220	1610.00	3,220
Double door hardware set with panic bar	3	PR	2600.00	7,800	1250.00	3,750	3850.00	11,550
ADA automatic operator	2	EA	2400.00	4,800	400.00	800	2800.00	5,600

WINDOWS

Triple pane insulated glazed aluminum framed window	18	SF	115.00	2,070	15.00	270	130.00	2,340
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MISCELLANEOUS

Caulking and sealants	56	LF	0.70	39	1.50	84	2.20	123
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<b>SUBTOTAL:</b>				<b>\$ 18,449</b>		<b>\$ 5,384</b>		<b>\$ 23,833</b>
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Labor Premium Time	16.70%					899		899
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<b>TOTAL ESTIMATED COST:</b>				<b>\$ 18,449</b>		<b>\$ 6,283</b>		<b>\$ 24,732</b>
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HMS Project No.: 22084

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

DOORS

6'0"x7'0" hollow metal frame	1	EA	220.00	220	115.00	115	335.00	335
Add for triple pane security glazed transom and side lites	42	SF	52.00	2,184	15.00	630	67.00	2,814
3'0"x7'0" wide stile hollow metal door with full relite	1	PR	1560.00	1,560	110.00	110	1670.00	1,670
Double door hardware set with panic bar	2	PR	2600.00	5,200	1250.00	2,500	3850.00	7,700
ADA automatic operator	2	EA	2400.00	4,800	400.00	800	2800.00	5,600
<b>SUBTOTAL:</b>				<b>\$ 13,964</b>		<b>\$ 4,155</b>		<b>\$ 18,119</b>
Labor Premium Time	16.70%					694		694

<b>TOTAL ESTIMATED COST:</b>				<b>\$ 13,964</b>		<b>\$ 4,849</b>		<b>\$ 18,813</b>
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HMS Project No.: 22084

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

FLOORS

New grate	26	SF	46.50	1,209	4.50	117	51.00	1,326
New walk-off/rubber mat	59	SF	6.50	384	1.10	65	7.60	449
Rubber base	45	LF	1.40	63	1.45	65	2.85	128

MISCELLANEOUS

Patch and paint walls	1	LOT	500.00	500	1000.00	1,000	1500.00	1,500
Paint door and window frames	270	SF	0.35	95	1.90	513	2.25	608

<b>SUBTOTAL:</b>				<b>\$ 2,251</b>		<b>\$ 1,760</b>		<b>\$ 4,011</b>
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Labor Premium Time	16.70%					294		294
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<b>SUBTOTAL:</b>				<b>\$ 2,251</b>		<b>\$ 2,054</b>		<b>\$ 4,305</b>
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Subcontractor's Overhead and Profit on Material and Labor	25.00%			563		514		1,077
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<b>TOTAL ESTIMATED COST:</b>				<b>\$ 2,814</b>		<b>\$ 2,568</b>		<b>\$ 5,382</b>
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HMS Project No.: 22084

09 - ELECTRICAL  092 - Service and Distribution	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
New 20 amp, single pole circuit breaker to panel	2	EA	30.00	60	60.00	120	90.00	180
SUBTOTAL:				\$ 60		\$ 120		\$ 180
Labor Premium Time	16.70%					20		20
SUBTOTAL:				\$ 60		\$ 140		\$ 200
Subcontractor's Overhead and Profit on Material and Labor	25.00%			15		35		50
TOTAL ESTIMATED COST:				\$ 75		\$ 175		\$ 250

HMS Project No.: 22084

09 - ELECTRICAL  093 - Lighting and Power	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

DEVICES

Junction box	6	EA	10.00	60	40.00	240	50.00	300
3/4" diameter EMT conduit	60	LF	1.55	93	12.00	720	13.55	813
1/2" diameter EMT conduit	32	LF	1.08	35	10.00	320	11.08	355
#10 wire	205	LF	0.61	125	1.70	349	2.31	474
#12 wire	160	LF	0.41	66	1.30	208	1.71	274
Test and tag system	1	LOT	50.00	50	300.00	300	350.00	350
<b>SUBTOTAL:</b>				\$ 429		\$ 2,137		\$ 2,566
Labor Premium Time	16.70%					357		357
<b>SUBTOTAL:</b>				\$ 429		\$ 2,494		\$ 2,923
Subcontractor's Overhead and Profit on Material and Labor	25.00%			107		624		731

<b>TOTAL ESTIMATED COST:</b>	\$ 536		\$ 3,118		\$ 3,654	
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HMS Project No.: 22084

09 - ELECTRICAL  094 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$

SECURITY SYSTEM

Telecom device box	4	EA	24.00	96	50.00	200	74.00	296
Security device box	6	EA	20.00	120	20.00	120	40.00	240
Security wiring	200	LF	0.61	122	1.00	200	1.61	322
Cat 6 cable	200	LF	0.61	122	0.70	140	1.31	262
3/4" to 1" diameter conduit	200	LF	1.50	300	5.80	1,160	7.30	1,460
J hook	38	EA	0.75	29	1.60	61	2.35	90
Aiphone intercom call-in switch	2	EA	500.00	1,000	250.00	500	750.00	1,500
JP-4MED master station	2	EA	2200.00	4,400	500.00	1,000	2700.00	5,400
Door contact	4	EA	60.00	240	45.00	180	105.00	420
Door release push button	2	EA	85.00	170	105.00	210	190.00	380
Verkada access control	2	EA	3000.00	6,000	1500.00	3,000	4500.00	9,000
Connect new devices to existing system	12	EA	25.00	300	45.00	540	70.00	840
Testing	1	LOT	50.00	50	150.00	150	200.00	200

SUBTOTAL:

\$ 12,949

\$ 7,461

\$ 20,410

HMS Project No.: 22084

09 - ELECTRICAL  094 - Special Electrical Systems	QUANTITY	UNIT	MATERIAL		LABOR		TOTAL	TOTAL
			RATE	TOTAL	RATE	TOTAL	UNIT RATE	MATERIAL/LABOR
			\$	\$	\$	\$	\$	\$
Labor Premium Time	16.70%					1,246		1,246
SUBTOTAL:				\$ 12,949		\$ 8,707		\$ 21,656
Subcontractor's Overhead and Profit on Material and Labor	25.00%			3,237		2,177		5,414



HMS Project No.: 22084

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

MOBILIZATION/DEMOBILIZATION

Freight, barge materials and equipment (incidental, remainder with unit rates)	2	TONS	350.00	700	50.00	100	400.00	800
Miscellaneous air freight	250	LBS	1.25	313	0.25	63	1.50	376
Move on and off site	1	LS	500.00	500	1000.00	1,000	1500.00	1,500

SITE STAFF

Project manager (part time)	16	HRS			115.00	1,840	115.00	1,840
Working superintendent	1	MO	200.00	200	6500.00	6,500	6700.00	6,700
Quality control	0	MO						By Superintendent
Daily loading and unloading	1	MO	150.00	150	1000.00	1,000	1150.00	1,150

TEMPORARY CONSTRUCTION

Utilities (usage)	1	MO	500.00	500			500.00	500
Telephone and telecommunications	1	MO	650.00	650			650.00	650
Dumpster (1)	1	MO	375.00	375			375.00	375

EQUIPMENT AND TOOLS

Trucks, pick-ups, hoisting equipment, etc.	1	MO	1500.00	1,500	250.00	250	1750.00	1,750
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HMS Project No.: 22084

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

EQUIPMENT AND TOOLS (Continued)

Saws, hand tools, etc.	1	MO	500.00	500			500.00	500
Tools, safety hats and other expendables	1	MO	250.00	250			250.00	250
Fuel for equipment	1	MO	750.00	750			750.00	750
Labor for equipment maintenance	4	HRS			65.00	260	65.00	260

MISCELLANEOUS

Materials testing	1	LOT	500.00	500			500.00	500
Printing and photographs	1	LS	250.00	250	500.00	500	750.00	750
Shop drawings and as-builts	1	LS	250.00	250	2500.00	2,500	2750.00	2,750
Manuals and training	1	LS	250.00	250	500.00	500	750.00	750
Plan check fee	1	LOT	1500.00	1,500			1500.00	1,500
Building permits	1	LOT						By Owner
Protection and barriers	1	MO	1000.00	1,000	1500.00	1,500	2500.00	2,500
General regular clean-up, etc.	1	MO	100.00	100	1000.00	1,000	1100.00	1,100
Final clean-up and punch list	1,430	SF	0.10	143	0.35	501	0.45	644

[illegible]MISCELLANEOUS (Continued)

Alaska Dept. of Labor contract labor filing fee	1	LOT	2700.00	2,700	2700.00	2,700
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### LABOR EMPLOYMENT COSTS

Premium time (general only)	With Direct Work
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Per diem Local Crew

<b>SUBTOTAL:</b>	<u>\$ 13,081</u>	<u>\$ 17,514</u>	<u>\$ 30,595</u>
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Home Office	3.50%	5,192
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Contractor's profit based on type of structure and project size including risk factor and bidding climate	20.00%	30,705
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General and special liabilities, fire, earthquakes, floods, accidents and other risk insurance	0.85%	1,566
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Performance bonds - general and subcontractors	1.15%	2,137
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<b>TOTAL ESTIMATED COST:</b>		<b>\$ 70,195</b>
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HMS Project No.: 22084

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 an early level of design documentation

30.00%

\$ 56,380

Unique market risk

5.00%

\$ 12,216

132 - ESCALATION CONTINGENCY

The allowance for escalation from the date of estimate to the proposed bid date of spring 2024 at the rate of 7.1% per annum (9 months)

5.32%

\$ 13,647

**TOTAL ESTIMATED COST:**

**\$ 82,243**