

August 15, 2022

## **ADDENDUM NO. 2**

TO THE DRAWINGS AND SPECIFICATIONS FOR:

### **CONSTRUCT OUTPATIENT MENTAL HEALTH/EDUCATION ADDITION**

VAMC Project #436-114 (VEG 4.11)

FORT HARRISON VETERANS AFFAIRS MEDICAL CENTER  
FORT HARRISON, MT

#### **I. GENERAL**

- A. This addendum modifies the drawings and the specifications dated 08/05/2020, as noted within and shall become part of the contract documents.
- B. Proposers shall acknowledge receipt of this addendum in the space provided on the proposal form. Failure to do so may subject proposer to disqualification.
- C. Each holder of proposal documents registered with the construction manager will receive a copy of the addendum. Each prime proposer is responsible for distribution of information conveyed by this addendum to its sub-proposers and suppliers.

#### **II. DRAWINGS –**

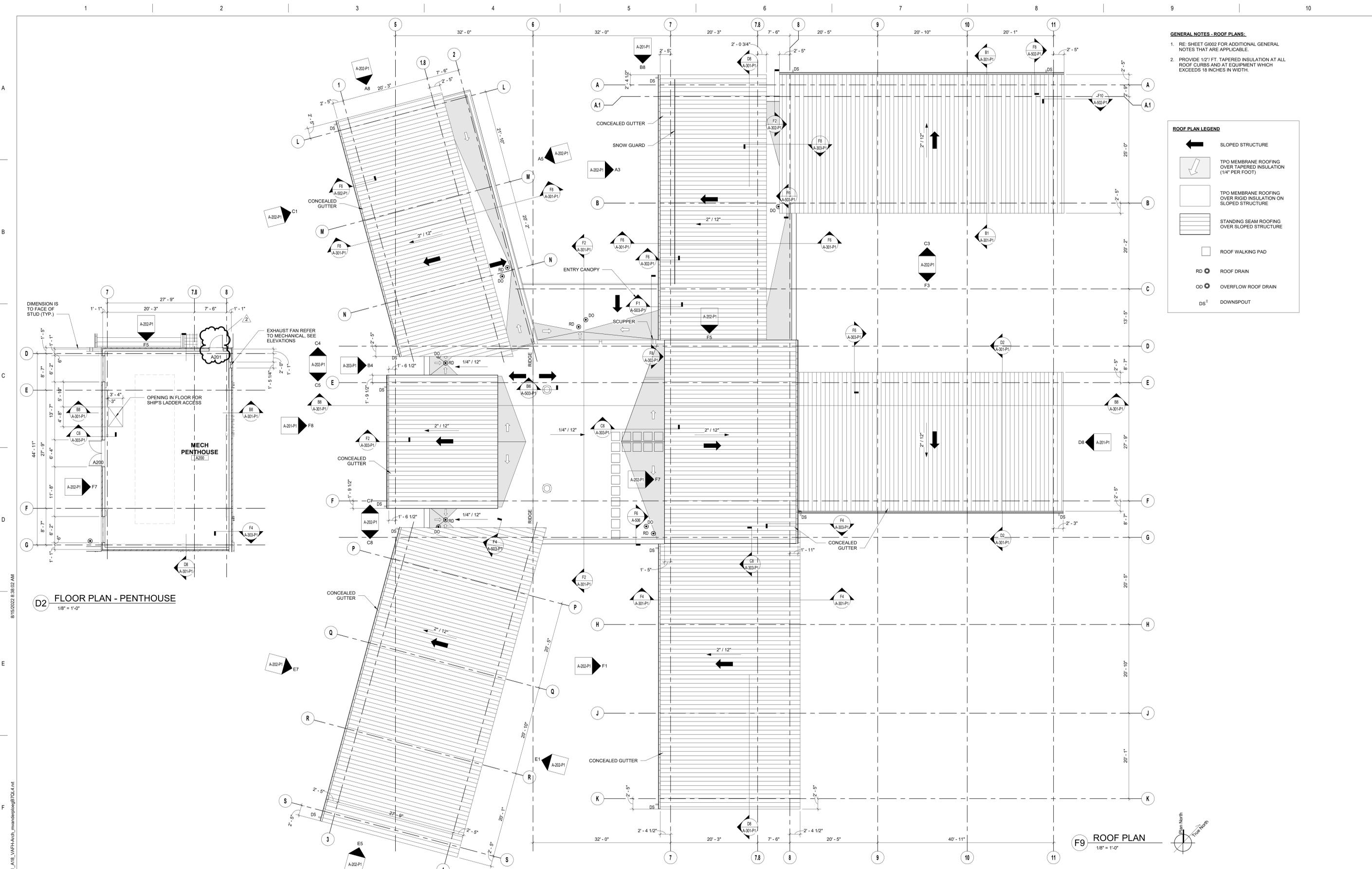
- A. SHEET A-105-P1 – ROOF PLAN
  1. Changed the access hatch in “MECH PENTHOUSE A200” to a 3’-0” x 5’-0” hollow metal door in hollow metal frame; Door #A201.
- B. SHEET A-602-P1 – DOOR SCHEDULE
  1. Added Door #A201 to schedule.
- C. SHEET A-102-P2 – FIRST FLOOR ARCHITECTURAL PLAN
  1. Added interior elevation callouts for window walls in “INSTRUCTOR CUBICLE 107.
  2. Tagged window walls with window type designation.
- D. SHEET A-201-P2 – INTERIOR DOOR AND WINDOW TYPES AND FRAMES
  1. Added Detail 2 for interior elevation of Window Type IW8.
  2. Added top and bottom channel for Window Type IW10.

3. Changed middle lite between doors to Glass Type 2.
4. Updated WINDOW AND GLASS TYPE LEGEND to require 1" IGUs and frosted and spandrel glass for privacy and acoustics.
5. Added GENERAL NOTE #8 & #9.

**III. SPECIFICATION –**

- A. Section 00 01 10 TABLE OF CONTENTS
  1. Updated to include Section 08 42 29.23 "SLIDING AUTOMATIC ENTRANCE – SECURITY"
- B. Added Section 08 42 29.23 "SLIDING AUTOMATIC ENTRANCE – SECURITY"

--- END OF ADDENDUM ---



**GENERAL NOTES - ROOF PLANS:**

- RE: SHEET G1002 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
- PROVIDE 1/2" FT. TAPERED INSULATION AT ALL ROOF CURBS AND AT EQUIPMENT WHICH EXCEEDS 18 INCHES IN WIDTH.

**ROOF PLAN LEGEND**

- SLOPED STRUCTURE
- TPO MEMBRANE ROOFING OVER TAPERED INSULATION (1/4" PER FOOT)
- TPO MEMBRANE ROOFING OVER RIGID INSULATION ON SLOPED STRUCTURE
- STANDING SEAM ROOFING OVER SLOPED STRUCTURE
- ROOF WALKING PAD
- RD
- OD
- DS

**D2 FLOOR PLAN - PENTHOUSE**  
1/8" = 1'-0"

**F9 ROOF PLAN**  
1/8" = 1'-0"

ADDENDUM NO. 2	08/15/2022	CONSULTANTS:	ARCHITECT/ENGINEER OF RECORD:	STAMP:	Drawing Title	Phase	Project Title	Project Number
		HOEFER WYSOCKI 1840 TONAWANDA CREEK PARKWAY SUITE 400, LEANWOOD, KANSAS 66041	VALHALLA ENGINEERING GROUP, LLC 750 W HAMPDEN AVE SUITE 300 ENGLEWOOD, CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM		ROOF PLAN	100% CONSTRUCTION DOCUMENTS	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	436-114
Issued:	Date:	PROTECTION ENGINEERING CONSULTANTS	JIRSA HEDRICK Structural Engineers	VEG 4.11	Approved: Project Director		Location 3687 Veterans Drive, Fort Harrison, MT 59636	Building Number 173
							Issue Date 08/05/2020	Checked MVP
							Drawn SB	Drawing Number A-105-P1

**DOOR SCHEDULE - MENTAL HEALTH**

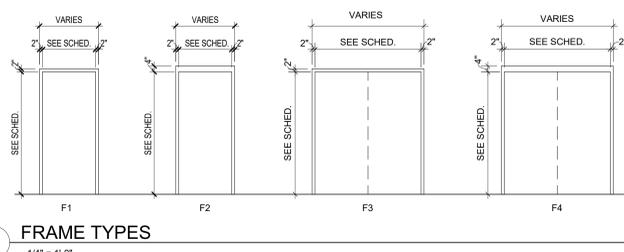
No.	Room Name	Door			Frame			Details			HDWR SETS
		Size	Type	Material/Finish	Rating	Type	Material/Finish	Rating	Head	Jamb	
A100A	CORRIDOR	3'-6" x 7'-0"	A	TEMP. GLASS	-	-	FRAMELESS	-	-	-	5
A100B	CORRIDOR	3'-6" x 7'-0"	A	TEMP. GLASS	-	-	FRAMELESS	-	-	-	5
A100E	CORRIDOR	3'-6" x 7'-0"	E	WD/ST	-	-	HMPT	-	-	-	9
A100F	CORRIDOR	3'-6" x 7'-0"	A	TEMP. GLASS	-	-	FRAMELESS	-	-	-	5
A100G	CORRIDOR	3'-6" x 7'-9 1/2"	B	AL/AN	-	-	AL/AN	-	-	-	1
A101B	VESTIBULE	10'-7" x 7'-10"	B	AL/AN	-	-	AL/AN	-	-	-	-
A101C	VESTIBULE	10'-7" x 7'-10"	B	AL/AN	-	-	AL/AN	-	-	-	-
A103	STORAGE	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	14
A104	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
A105	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
A106	HAC	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	12
A106A	CHASE	2'-0" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	-
A107	GROUP	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	18
A108	GROUP	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	18
A109	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
A110	HAC	3'-0" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	12
A111	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
A112	ELECTRICAL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	12
A113	IT ROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	9
A114	CONFERENCE/LOUNGE	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	20
A115	RECEPTION	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	9
A200	PENTHOUSE	3'-0" x 5'-0"	D	HMPT	-	F1	HMPT	-	-	-	6
A201	PENTHOUSE	3'-0" x 5'-0"	D	HMPT	-	F1	HMPT	-	-	-	6
B100A	CORRIDOR	3'-4" x 7'-9 1/2"	B	AL/AN	-	-	AL/AN	-	-	-	1
B100B	CORRIDOR	3'-6" x 7'-9 1/2"	B	AL/AN	-	F1	AL/AN	-	-	-	1
B100C	CORRIDOR	3'-6" x 7'-0"	A	TEMP. GLASS	-	-	FRAMELESS	-	-	-	1
B101	GROUP	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	18
B102	GROUP	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	18
B103	STORAGE	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	14
B104	MECHANICAL	PR 6'-0" x 7'-0"	C	HMPT	-	F4	HMPT	-	F4/A-505	FS/A-505	6
B105	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B106	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B107	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B108	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B109	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B110	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B111	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B112	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B113	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B114	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B115	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
B116	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C100	CORRIDOR	3'-6" x 7'-9 1/2"	B	AL/AN	-	F1	AL/AN	-	-	-	1
C101	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C102	STORAGE	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	14
C103	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C104	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C105	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C106	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C107	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21

**NOTES:**  
 - ALL HOLLOW METAL DOOR FRAMES TO RECEIVE SEMI-GLOSS PAINT FINISH.  
 - SEE SHEET A-203-P1 FOR ALUMINUM FRAME TYPES AND DIMENSIONS.

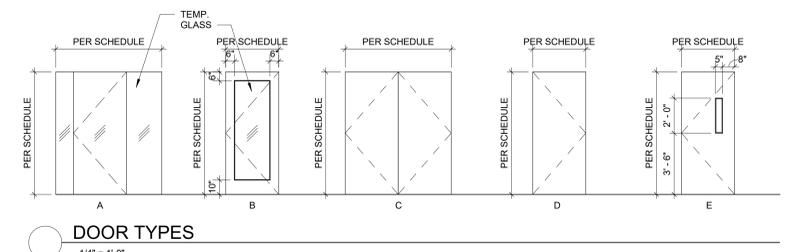
**DOOR SCHEDULE - MENTAL HEALTH**

No.	Room Name	Door			Frame			Details			HDWR SETS
		Size	Type	Material/Finish	Rating	Type	Material/Finish	Rating	Head	Jamb	
C108	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C109	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C110	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C111	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
C112	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D100	CORRIDOR	3'-6" x 7'-9 1/2"	B	AL/AN	-	F1	AL/AN	-	-	-	1
D101	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D102	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D103	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D104	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D105	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D106	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D107	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D108	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D109	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D110	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D111	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
D112	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E100	CORRIDOR	3'-6" x 7'-9 1/2"	B	AL/AN	-	F1	AL/AN	-	-	-	1
E101	STORAGE	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	14
E102	EXAM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	20
E103	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E104	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E105	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E106	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E107	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E108	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E109	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E110	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E111	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E112	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E113	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
E114	COUNSEL	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	21
F101	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
F101A	CHASE	2'-0" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	14
F102	TELEMED	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	18
F103	RESTROOM	3'-6" x 7'-0"	D	WD/ST	-	F1	HMPT	-	-	-	19
F105	COPY	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	22
F106	OFFICE	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	16
F107	OFFICE	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	16
F108	OFFICE	3'-6" x 7'-0"	E	WD/ST	-	F1	HMPT	-	-	-	16

- GENERAL NOTES - DOOR SCHEDULE:**
- RE: SHEET G1002 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
  - ALL DIMENSIONS ARE TO ROUGH OPENING.
  - ALL OPENINGS ARE TO BE FIELD VERIFIED, AND NOTED AS SUCH ON SHOP DRAWINGS, PRIOR TO VHA COR'S REVIEW.
  - GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH.
  - ALL INTERIOR DOORS TO HAVE JAMB DETAIL F8/A-505 AND HEAD DETAIL F9-A-505. UNO. RE WINDOW TYPES FOR EXTERIOR DOOR DETAILS.



**FRAME TYPES**  
1/4" = 1'-0"



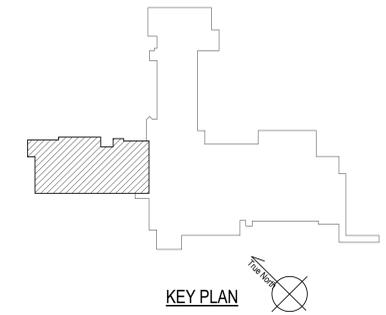
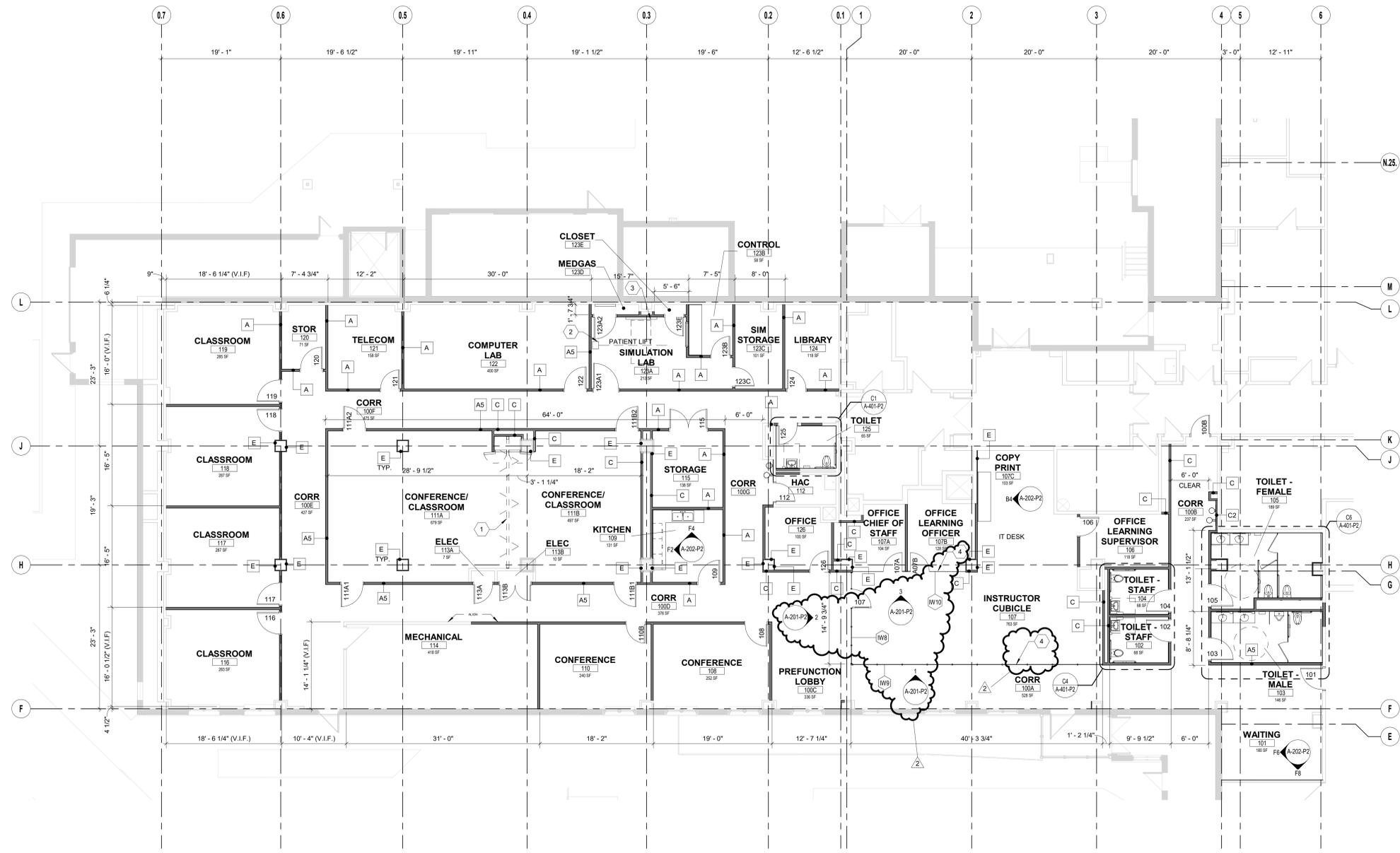
**DOOR TYPES**  
1/4" = 1'-0"

ADDENDUM NO. 2	08/15/2022	CONSULTANTS:	ARCHITECT/ENGINEER OF RECORD:	STAMP:	Drawing Title	Phase	Project Title	Project Number
		<b>HOEFER WYSOCKI</b> 1840 TONAWANDA CREEK PARKWAY SUITE 400, LEANWOOD, KANSAS 64021	<b>VALHALLA ENGINEERING GROUP, LLC</b> 750 W HAMPDEN AVE SUITE 300 ENGLEWOOD, CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM		<b>DOOR SCHEDULE</b>	100% CONSTRUCTION DOCUMENTS	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	436-114
Issued:	Date:	<b>JIRSA HEDRICK</b> Structural Engineers	VEG 4.11		Approved: Project Director		Location 3687 Veterans Drive, Fort Harrison, MT 59636	Building Number 173
							Issue Date 08/05/2020	Drawing Number A-602-P1
							Checked MVP	Drawn SB

8/15/2022 8:30:15 AM  
C:\Users\valhalla\OneDrive\Documents\164951\_A18\_VA-FH-Arch\_drawing\plog70L4.rvt  
VA FORM 08 - 6231

- GENERAL NOTES - FLOOR PLANS:**
- REFER TO SHEET G1002 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
  - REFER TO ENLARGED FLOOR PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
  - ARCHITECTURAL ELEVATION 100'-0" = USGS ELEVATION 3987.40'
  - PUBLIC SPACES: (A101, A102, A100A, A100B, B100A) THE WALLS WILL BE FINISHED WITH 5/8" GYP. BD. TO A LEVEL 4 FINISH AND PAINTED, UNLESS NOTED OR SPECIFIED OTHERWISE.
  - REFER TO FINISH LEGEND, FINISH SCHEDULE AND SPECIFICATIONS FOR DOOR AND DOOR FRAME FINISHES.
  - ALL INTERIOR WALLS SHALL BE TYPE AS UNLESS NOTED OTHERWISE.

- KEYNOTES:**
- OPERABLE PARTITION BASIS OF DESIGN MODERNFOLD ACOUSTI-SEAL 932 OR APPROVED EQUAL.
  - LINE OF PATIENT LIFT ABOVE.
  - HEADWALL FURNISHED BY VA, INSTALLED BY CONTRACTOR.
  - DEMOUNTABLE GLAZED PARTITION, CENTER GLAZED, CLEAR ANODIZED. BASIS OF DESIGN IS MURAFLEX, NIMO SERIES, OR APPROVED EQUAL.



**F9 154 LEVEL 1 - FLOOR PLAN**  
1/8" = 1'-0"

ADDENDUM NO. 2		CONSULTANTS:		ARCHITECT/ENGINEER OF RECORD:		STAMP:		Drawing Title		Phase		Project Title		Project Number	
08/15/2022								<b>FIRST FLOOR ARCHITECTURAL PLAN</b>		<b>100% CONSTRUCTION DOCUMENTS</b>		<b>OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION</b>		<b>436-114</b>	
Date:		750 W HAMPPDEN AVE SUITE 300 ENGLEWOOD, CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM		VEG 4.11		Approved: Project Director		Location 3687 Veterans Drive, Fort Harrison, MT 59636		Issue Date 08/05/2020		Checked MVP		Drawn SB	
Issued:		Date:		Date:		Date:		Date:		Date:		Date:		Date:	
VA FORM 08 - 6231		1		2		3		4		5		6		7	

C:\Users\valhalla\OneDrive\Documents\164951\_A18\_VA-FH-Arch\_ArmdmplanlogP0L4.rvt 8/15/2022 8:37:59 AM

A

B

C

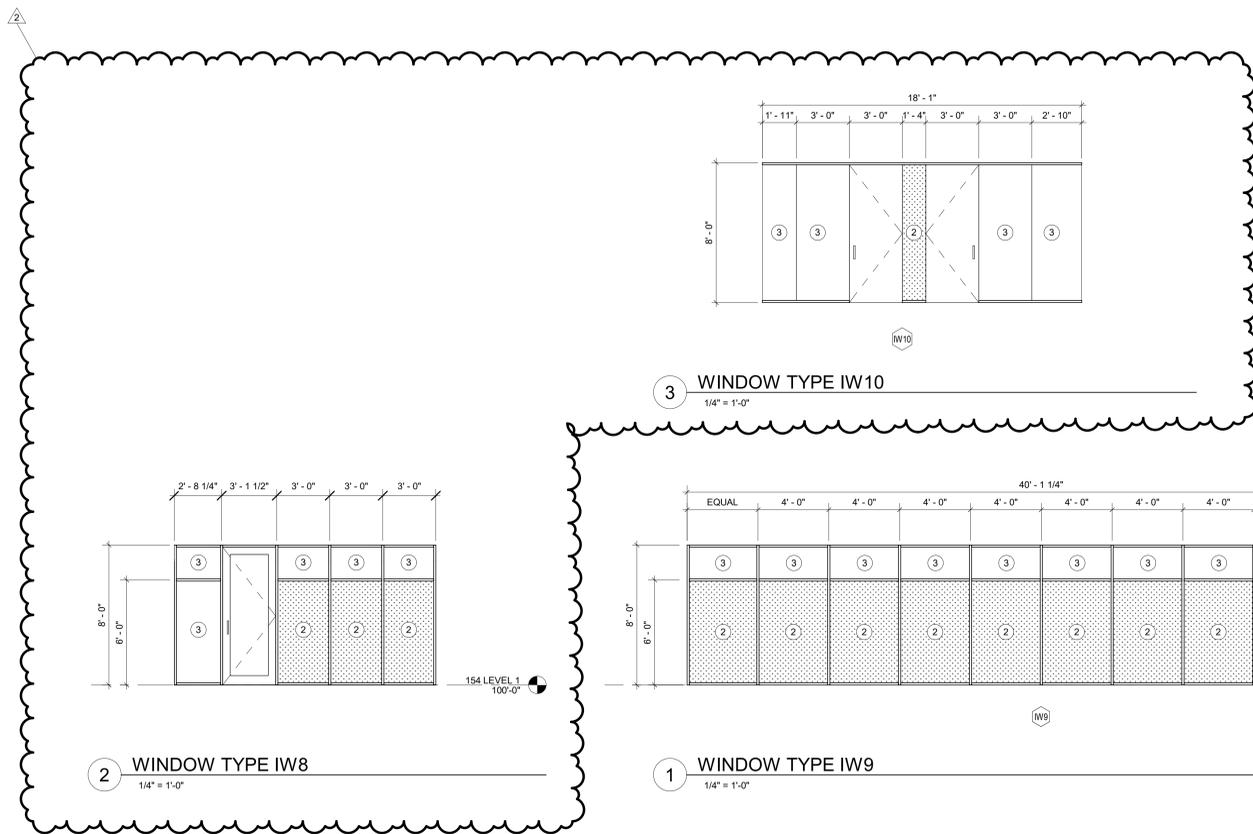
D

E

F

- GENERAL NOTES - WINDOW TYPES/ GLASS TYPES:**
- RE: SHEET G1002 FOR ADDITIONAL GENERAL NOTES THAT ARE APPLICABLE.
  - ALL WINDOW TYPES ARE CURTAIN WALLS, UNLESS NOTED OTHERWISE.
  - ALL DIMENSIONS ARE TO ROUGH OPENING AND TO TOP OR BOTTOM OF MULLION, UNLESS NOTED OR SHOWN OTHERWISE.
  - ALL OPENINGS ARE TO BE FIELD VERIFIED, AND NOTED AS SUCH ON SHOP DRAWINGS, PRIOR TO VHA COR'S REVIEW.
  - ALL GLASS SHALL BE GLASS TYPE 1, UNLESS NOTED OTHERWISE.
  - GLASS DOORS, ADJACENT PANELS AND ALL GLAZED OPENINGS WITHIN 1'-6" OF THE FLOOR, AND WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF A DOOR, ETC., SHALL BE SAFETY GLAZING AS APPROVED FOR IMPACT BY APPLICABLE BUILDING CODES, AND SHALL BE LABELED AS SUCH.
  - CURTAIN WALL PRICING TO INCLUDE ALL STEEL REINFORCING, AS REQUIRED, BY MANUFACTURER, BOD: KAWNEER 1650, RE SPECIFICATION SECTION 08 44 13.
  - ALL INTERMEDIATE MULLIONS ARE DIMENSIONED TO THE CENTERLINE OF MULLION UNO.
  - SUBMIT MANUFACTURER'S STANDARD COLORS FOR SPANDREL GLASS PER SECTION 01 33 23 FOR REVIEW AND SELECTION BY ARCHITECT.

WINDOW AND GLASS TYPE LEGEND:	
①	NOT USED
②	1" INSULATED GUARDIAN GLASS, TEMPERED FROSTED OUTER LITE (SECOND SURFACE, CORR 100A SIDE) AND TEMPERED SPANDREL INNER LITE (THIRD SURFACE, ROOM 107 SIDE)
③	1" INSULATED GUARDIAN GLASS, CLEAR TEMPERED GLAZING
④	NOT USED



8/15/2022 8:30:02 AM

C:\Users\valhalla\OneDrive\Documents\164951\_A18\_VA-FH-Arch\_Lmender\plog\70L4.rvt

ADDENDUM NO. 2	08/15/2022	CONSULTANTS:	ARCHITECT/ENGINEER OF RECORD:	STAMP:	Drawing Title	Phase	Project Title	Project Number	
					INTERIOR DOOR AND WINDOW TYPES AND FRAMES	100% CONSTRUCTION DOCUMENTS	OUTPATIENT MENTAL HEALTH / EDUCATION ADDITION	436-114	
Issued:	Date:		750 W HAMPDEN AVE SUITE 300 ENGLEWOOD, CO 80110 (720) 550-6307 WWW.VALHALLAENGINEERING.COM	VEG 4.11	Approved: Project Director		Location 3687 Veterans Drive, Fort Harrison, MT 59636	Building Number 154	
VA FORM 08 - 6231							Issue Date 08/05/2020	Checked MVP	Drawn SB
1	2	3	4	5	6	7	8	9	10

A-201-P2

12-09-16

**VA MONTANA HEALTH CARE SYSTEM  
 FORT HARRISON, MT**

**PROJECT NO. 436-114  
 (VEG 4.11)**

**CONSTRUCT OUTPATIENT MENTAL HEALTH /  
 EDUCATION RENOVATION**

**TABLE OF CONTENTS  
 Section 00 01 10**

	<b>DIVISION 00 - SPECIAL SECTIONS</b>	<b>DATE</b>
00 01 15	List of Drawing Sheets	12-16
	<b>DIVISION 01 - GENERAL REQUIREMENTS</b>	
01 00 00	General Requirements	11-15
01 32 16.15	Project Schedules	02-15
01 33 23	Shop Drawings, Product Data, and Samples	07-15
01 35 26	Safety Requirements	10-14
01 42 19	Reference Standards	05-16
01 45 00	Quality Control	03-19
01 45 29	Testing Laboratory Services	06-16
01 45 35	Special Inspections	03-19
01 45 35.1	Schedule of Special Inspections	
01 45 35.2	Statement of Special Inspections	
01 57 19	Temporary Environmental Controls	01-11
01 74 19	Construction Waste Management	09-13
01 81 13	Sustainable Construction Requirements	09-15
01 91 00	General Commissioning Requirements	10-15
	<b>DIVISION 02 - EXISTING CONDITIONS</b>	
02 41 00	Demolition	08-17
	<b>DIVISION 03 - CONCRETE</b>	
03 30 00	Cast-In-Place Concrete	12-15
	<b>DIVISION 04 - MASONRY</b>	
04 05 13	Masonry Mortaring	02-16
04 20 00	Unit Masonry	02-16
	<b>DIVISION 05 - METALS</b>	
05 12 00	Structural Steel Framing	11-18

12-09-16

05 21 00	Steel Joist Framing	11-18
05 31 00	Steel Decking	02-16
05 36 00	Composite Metal Decking	10-15
05 40 00	Cold-Formed Metal Framing	05-16
05 50 00	Metal Fabrications	12-16
	<b>DIVISION 06 - WOOD, PLASTICS AND COMPOSITES</b>	
06 10 00	Rough Carpentry	10-15
06 20 00	Finish Carpentry	08-16
	<b>DIVISION 07 - THERMAL AND MOISTURE PROTECTION</b>	
07 12 00	Built-up Bituminous Waterproofing	09 11
07 13 00	Sheet Waterproofing	04-13
07 21 13	Thermal Insulation	02-16
07 22 00	Roof and Deck Insulation	02-16
07 27 27	Fluid-Applied Membrane Air Barriers, Vapor Retarding	02-16
07 40 00	Roofing and Siding Panels	10-15
07 41 13	Standing Seam Metal Roofing	06-14
07 54 23	Thermoplastic Polyolefin (TPO) Roofing	08-16
07 60 00	Flashing and Sheet Metal	07-14
07 71 00	Roof Specialties	10-15
07 84 00	Firestopping	02-16
07 92 00	Joint Sealants	10-15
	<b>DIVISION 08 - OPENINGS</b>	
08 11 13	Hollow Metal Doors and Frames	08-16
08 14 00	Interior Wood Doors	02-16
08 31 13	Access Doors and Frames	02-16
08 41 13	Aluminum-Framed Entrances and Storefronts	08-16
08 42 29.23	Sliding Automatic Entrances - Security	-
08 44 18	Glazed Aluminum Curtain Walls	10-15
08 51 13	Aluminum Windows	02-16
08 56 53	Blast Resistant Windows	02-16
08 71 00	Door Hardware	01-16
08 71 13.11	Low Energy Power Assist Door Operators	08-16
08 80 00	Glazing	10-15
	<b>DIVISION 09 - FINISHES</b>	
09 05 16	Subsurface Preparation for Floor Finishes	02-15
09 22 16	Non-Structural Metal Framing	05-16
09 29 00	Gypsum Board	11-14
09 30 13	Ceramic/Porcelain Tiling	10-15
09 51 00	Acoustical Ceilings	08-16
09 65 13	Resilient Base and Accessories	02-16
09 65 16	Resilient Sheet Flooring	02-16
09 65 19	Resilient Tile Flooring	12-15



12-09-16

09 68 00	Carpeting	10-15
09 91 00	Painting	01-16
	<b>DIVISION 10 - SPECIALTIES</b>	
10 14 00	Signage	10-15
10 21 13	Toilet Compartments	12-15
10 22 26	Operable Partitions	05-19
10 25 13	Patient Bed Service Wall	01-20
10 28 00	Toilet and Bath Accessories	02-16
10 44 13	Fire Extinguisher Cabinets	08-14
	<b>DIVISION 11 - EQUIPMENT</b>	
11 73 00	Ceiling Mounted Patient Lift System	01-17
	<b>DIVISION 12 - FURNISHINGS</b>	
12 24 00	Window Shades	09-15
12 36 00	Countertops	12-15
	<b>DIVISION 13 - SPECIAL CONSTRUCTION</b>	
13 05 41	Seismic Restraint Requirements for Nonstructural Components	01-14
	<b>DIVISION 14- CONVEYING EQUIPEMENT (NOT USED)</b>	
	<b>DIVISION 21- FIRE SUPPRESSION</b>	
21 13 13	Wet-Pipe Sprinkler Systems	02-19
	<b>DIVISION 22 - PLUMBING</b>	
22 05 11	Common Work Results for Plumbing	07-16
22 05 12	General Motor Requirements for Plumbing Equipment	09-15
22 05 19	Meters and Gages for Plumbing Piping	09-15
22 05 23	General-Duty Valves for Plumbing Piping	09-15
23 05 33	Heat Tracing for Plumbing Piping	09-15
22 07 11	Plumbing Insulation	09-15
22 08 00	Commissioning of Plumbing Systems	11-16
22 11 00	Facility Water Distribution	09-15
22 13 00	Facility Sanitary and Vent Piping	09-15
22 14 00	Facility Storm Drainage	09-15
22 34 00	Fuel-Fired Domestic Water Heaters	09-15
22 40 00	Plumbing Fixtures	09-15

12-09-16

	<b>DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)</b>	
23 05 11	Common Work Results for HVAC	08-17
23 05 12	General Motor Requirements for HVAC Equipment	08-17
23 05 41	Noise and Vibration Control for HVAC Piping and Equipment	02-15
23 05 93	Testing, Adjusting, and Balancing for HVAC	02-15
23 07 11	HVAC Insulation	02-15
23 08 00	Commissioning of HVAC Systems	11-16
23 09 23	Direct-Digital Control System for HVAC	09-11
23 11 23	Facility Natural-Gas Piping	08-17
23 21 13	Hydronic Piping	08-17
23 21 23	Hydronic Pumps	08-17
23 23 00	Refrigerant Piping	02-15
23 25 00	HVAC Water Treatment	02-15
23 31 00	HVAC Ducts	03-13
23 34 00	HVAC Fans	02-15
23 36 00	Air Terminal Units	02-15
23 37 00	Air Outlets and Inlets	02-15
23 40 00	HVAC Air Cleaning Devices	02-12
23 52 25	Low-Pressure Water Heating Boilers	08-17
23 73 00	Indoor Central-Station Air Handling Units	04-11
23 81 00	Decentralized Unitary HVAC Equipment	02-11
23 81 23	Computer Room Air Conditioners	04-11
23 82 00	Convection Heating and Cooling Units	04-11
	<b>DIVISION 25 - INTEGRATED AUTOMATION (NOT USED)</b>	
	<b>DIVISION 26 - ELECTRICAL</b>	
26 05 11	Requirements for Electrical Installations	01-16
26 05 13	Medium-Voltage Cables	01-17
26 05 19	Low-Voltage Electrical Power Conductors and Cables	01-17
26 05 26	Grounding and Bonding for Electrical Systems	01-17
26 05 33	Raceway and Boxes for Electrical Systems	01-18
26 05 41	Underground Electrical Construction	01-17
26 05 73	Overcurrent Protective Device Coordination Study	01-18
26 08 00	Commissioning of Electrical Systems	11-16
26 09 23	Lighting Controls	01-18
26 12 19	Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers	01-18
26 13 16	Medium-Voltage Fusible Interrupter Switches	01-17
26 22 00	Low-Voltage Transformers	01-18
26 24 13	Distribution Switchboards	01-18
26 24 16	Panelboards	01-18
26 27 26	Wiring Devices	01-18
26 29 11	Motor Controllers	01-18
26 29 21	Enclosed Switches and Circuit Breakers	01-17
26 43 13	Surge Protective Devices	01-17

12-09-16

26 51 00	Interior Lighting	01-18
26 56 00	Exterior Lighting	01-18
	<b>DIVISION 27 - COMMUNICATIONS</b>	
27 05 11	Requirements for Communications Installations	06-15
27 05 26	Grounding and Bonding for Communications Systems	06-15
27 05 33	Raceways and Boxes for Communications Systems	10-18
27 08 00	Commissioning of Communications Systems	11-16
27 10 00	Controls, Communication and Signal Wiring	06-15
27 11 00	Communications Equipment Room Fittings	06-15
27 15 00	Communications Structured Cabling	01-16
27 41 31	Master Antenna Television Equipment and Systems	06-15
27 51 16	Public Address and Mass Notification Systems	10-18
27 52 23	Nurse Call and Code Blue Systems	10-18
	<b>DIVISION 28 - ELECTRONIC SAFETY AND SECURITY</b>	
28 05 00	Common Work Results for Electronic Safety and Security	04-18
28 05 13	Conductors and Cables for Electronic Safety and Security	10-18
28 05 26	Grounding and Bonding for Electronic Safety and Security	09-11
28 05 28.33	Conduits and Backboxes for Electronic Safety and Security	09-11
28 08 00	Commissioning of Electronic Safety and Security Systems	11-16
28 13 00	Physical Access Control System	10-11
28 23 00	Video Surveillance	01-18
28 31 00	Fire Detection and Alarm	02-19
	<b>DIVISION 31 - EARTHWORK</b>	
31 20 11	Earthwork (Short Form)	10-12
	<b>DIVISION 32 - EXTERIOR IMPROVEMENTS</b>	

Fort Harrison VA Medical Center  
 Construct Outpatient Mental Health/  
 Education Addition  
 Fort Harrison, MT

Addendum No. 2  
 August 15, 2022  
 Project No. 436-114

12-09-16

32 05 23	Cement and Concrete for Exterior Improvements	08-16
<u>32 12 16</u>	<u>Asphalt Paving</u>	<u>09-15</u>
32 17 23	Pavement Markings	08-16
32 84 00	Irrigation System	12-16
32 93 00	Landscape	12-16
	<b>DIVISION 33 - UTILITIES</b>	
33 08 00	Commissioning of Site Utility Systems	11-16
33 10 00	Water Utilities	03-17
33 30 00	Sanitary Sewer Utilities	06-13
33 40 00	Storm Sewer Utilities	12-17
33 51 00	Natural-Gas Distribution (INITIAL DRAFT)	10-11
	<b>DIVISION 34 - TRANSPORTATION</b>	
	<b>DIVISION 48 - Electrical Power Generation</b>	

01-01-21

**SECTION 08 42 29.23**  
**08 42 29.23 SLIDING AUTOMATIC ENTRANCES - SECURITY**



**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Exterior, single slide, manual or automatic sliding entrances; trackless for installation in exterior walls, storefront or curtainwall.
  - 2. Entrances shall be blast and forced-entry rated.

**1.2 RELATED WORK**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 08, Storefront and Curtainwall
- C. Section 08 71 00, DOOR HARDWARE: Hardware.
- D. Section 08 80 00, GLAZING. Glass and Glazing:
- E. Section 08 71 13, AUTOMATIC DOOR OPERATORS: Automatic Door Actuators.
- F. DRAWING SCHEDULES FOR FINISHES: Aluminum Finish and Color.

**1.3 COORDINATION**

- A. Field Measurements: Verify actual dimensions of openings to receive automatic entrances by field measurements before fabrication.
- B. Templates: Distribute for doors, frames, and other work specified to be factory prepared for installing automatic entrances.

**1.4 APPLICABLE PUBLICATIONS**

- A. Comply with references to extent specified in this section. Refer to the version year adopted by the Authority Having Jurisdiction or the latest edition.
- B. American Welding Society (AWS):
  - D1.2/D1.2M-2014.....Structural Welding Code - Aluminum
- C. ANSI A156.10
- D. American Society of Civil Engineers ASCE 7-98
- E. ASTM International (ASTM):
  - B209-14.....Aluminum and Aluminum-Alloy Sheet and Plate
  - B209M-14.....Aluminum and Aluminum-Alloy Sheet and Plate  
(Metric)

01-01-21

- B221-14.....Aluminum and Aluminum-Alloy Extruded Bars,  
Rods, Wire, Profiles, and Tubes
- B221M-13.....Aluminum and Aluminum-Alloy Extruded Bars,  
Rods, Wire, Profiles, and Tubes (Metric)
- E330-96, E283-91, E331-96, F842-97; ASTM test methods
- F. National Association of Architectural Metal Manufacturers (NAAMM):  
AMP 500-04.....Metal Finishes Manual for Architectural Metal  
Products
- G. National Fenestration Rating Council (NFRC):  
500-17.....Determining Fenestration Product Condensation  
Resistance Values
- H. National Fire Protection Association (NFPA):  
NFPA 70-20.....National Electric Code  
NFPA 101, Life Safety Code, section 5-2.1.9.  
NFPA 105-19.....Standard for the Installation of Smoke Door  
Assemblies
- I. Underwriters Laboratories UL:  
UL Certified (equivalent to CSA certified) to CSA 22-2 No. 247.  
UL 1784-20.....Air Leakage Tests for Door Assemblies

**1.5 PREINSTALLATION MEETINGS**

- A. Conduct preinstallation meeting at project site minimum 30 days before beginning Work of this section.
  - 1. Required Participants:
    - a. Contracting Officer's Representative.
    - b. Contractor.
    - c. Installer.
  - 2. Meeting Agenda: Distribute agenda to participants minimum 3 days before meeting.
    - a. Installation schedule.
    - b. Installation sequence.
    - c. Preparatory work.
    - d. Protection before, during, and after installation.
    - e. Installation.
    - f. Terminations.
    - g. Transitions and connections to other work.
    - h. Other items affecting successful completion.

01-01-21

3. Document and distribute meeting minutes to participants to record decisions affecting installation.

#### **1.6 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submittal Drawings:
  1. Show size, configuration, and fabrication and installation details.
  2. Show anchorage and reinforcement.
  3. Show interface and relationship to adjacent work.
- C. Manufacturer's Literature and Data:
  1. Description of each product.
  2. Doors, each type.
  3. Entrance and Storefront or Curtainwall construction.
  4. Installation instructions.
  5. Warranty.
- D. Samples:
  1. Door Corner Section: Minimum 450 mm x 450 mm (18 x 18 inches) for each specified door type, showing head rail and hinge stile, door closer reinforcement, and internal reinforcement.
  2. Aluminum Anodized Finish: Provide sample extrusions minimum 150 mm (6 inches) long for each specified color in sets of three showing maximum color range.
  3. Aluminum Paint Finish: Provide sample extrusions minimum 150 mm (6 inches) long for each specified color.
- E. Sustainable Construction Submittals:
  1. Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.
- F. Test reports: Certify each product complies with specifications.
- G. Certificates: Certify each product complies with specifications.
  1. Certify anodized finish thickness.
- H. Qualifications: Substantiate qualifications comply with specifications.
  1. Manufacturer.
  2. Installer with project experience list.
  3. Welders and welding procedures.
- I. Delegated Design Drawings and Calculations: Signed and sealed by responsible design professional.

01-01-21

1. Show location and magnitude of loads applied to building structural frame.
2. Identify deviations from details shown on drawings.

J. Operation and Maintenance Data:

1. Care instructions for each exposed finish product.

**1.7 QUALITY ASSURANCE**

A. Manufacturer Qualifications:

1. Regularly manufactures specified products.
2. Manufactured specified products with satisfactory service on five similar installations for minimum five years.

B. Installer Qualifications: Product manufacturer or Manufacturer authorized representative.

1. Regularly installs specified products.
2. Installed specified products with satisfactory service on five similar installations for minimum five years.

- a. Project Experience List: Provide contact names and addresses for completed projects.

C. Source Limitations: Obtain automatic entrances through one source from a single manufacturer.

D. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of automatic entrances and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."

E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

F. Coordination:

1. Coordinate sizes and locations of recesses in concrete floors for recessed tracks and thresholds if applicable. Concrete work is specified in Division 03.
2. Templates: Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing automatic entrances to comply with indicated requirements.
3. Electrical System Roughing-in: Coordinate layout and installation of automatic entrance door assemblies with connections to power supplies.

01-01-21

### **1.8 DELIVERY, STORAGE AND HANDLING**

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, production run number, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.
- D. Store products indoors in dry, weathertight facility.
- E. Protect products from damage during handling and construction operations.

### **1.9 WARRANTY**

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction." Warranty Period for one (1) year for but not limited to, the following: Structural failure including excessive deflection
  - 1. Faulty operation of hardware
  - 2. Excessive deterioration/failure of metals, metal finishes, glass and other materials.
- B. Manufacturer's Warranty: Warrant painted finish against material and manufacturing defects.
  - 1. Warranty Period: 20 years.

## **PART 2 - PRODUCTS**

### **2.1 AUTOMATIC SLIDING ENTRANCE ASSEMBLIES**

- A. Basis of Design System:
  - 1. Stanley Access Technologies; Bypass Door Automatic sliding entrances with Impact Option and Blast Option.
    - a. Submit system of equal performance and similar appearance for approval.
- B. Automatic Entrance configuration:
  - 1. Standard. Provide door panels. All doors shall have intermediate rails. Bottom rails to be 8 inches high and widths to be as shown on construction documents. See drawings for overall package width and height. Package to include optional transom per drawings.
  - 2. Impact Option. Provide medium stile, 3-1/2 inch wide and 0.125 inch thick, door panels with 8 inch wide bottom rails to dimension heights and widths as shown on construction documents.
  - 3. Configuration: One sliding panel and one full sidelight on each side; single slide.

01-01-21

4. Mounting: Between jambs.
  5. Track: None, trackless.
- C. General: Provide manufacturer's standard automatic entrance assemblies including doors, side lites, framing, headers, carrier assemblies, roller tracks, pivots, and accessories required for a complete installation.
1. All components are to be from a single source from a single manufacturer.
  2. Provide automatic entrances capable of withstanding structural loads and thermal movements based on testing manufacturer's standard units in assemblies similar to those indicated for this project.
  3. Operating Range: Minus 30deg F (Minus 34deg C) to 130deg F (54deg C).

## **2.2 SLIDING ALUMINUM DOORS**

- A. Sliding Aluminum Doors: Provide wind resistant gas dampers, for resistance to high wind when sliding panels are swung out into the direction of egress. Impact level:
1. Standard. All door panels shall have security glass stops. Glass stops 5/8-inch and 1 inch shall be available for all door panels and transom. The active sliding door panels shall include a single-point lock securing the lead edges of the sliding door stiles to the jamb. The active sliding door panels shall be provided with a key cylinder on the exterior and a thumb turn on the interior in accordance with NFPA 101.
  2. Impact Option. All door panels shall have security glass stops for use with 9/16inch impact resistant glass. All doors shall have a minimum of one 4-1/4 inch intermediate rail and a maximum of two intermediate rails per panel. Each active sliding door panel within the door system shall include a two-point lock to secure the lead edge of the sliding door stile to the jamb and to the door hanger assembly. Each active sliding door panel shall be provided with one lower flush bolt in accordance with the South Florida Building Code. The active sliding door shall be provided with a key cylinder on the exterior and a thumb turn on the interior in accordance with NFPA 101. Lock indicators shall be provided for each two-point locking mechanism and flush bolt mechanism. A stile interlock shall be

01-01-21

- provided to secure the active sliding panel stile to the adjacent fixed panel stile when in the closed and locked-down position. The interlock shall be activated by a hex key or other standard tool. All door corners (intersection of stiles and rails or stiles and muntin bars) will be welded.
- B. Door Operation: Shall be;
1. Standard. In compliance with NFPA 101, exterior sliding panel shall allow "breakout" to the full open position to provide instant egress at any point in the door's movement. The interior sliding door panel shall "breakout" in the direction of egress only at the full closed position. This must be reviewed against local code requirements and required egress opening needs for the occupancy.
  2. Door(s) shall be sized to prevent pinch points at overlapping stiles.
- C. Aluminum Frame and Extrusions: Shall be a minimum 0.125-inch wall thickness in integral structural sections. The frame shall be: standard 4-1/2-inch-deep section. Provide additional vertical tubes for impact as needed.
- D. Aluminum Extrusion Finish: Standard anodized finish shall be:
1. Match finish of curtain wall.
- E. Header Case: Two provided. Shall be 6inch wide by 8inch high (152 mm wide by 203 mm high) extruded aluminum and capable of supporting of 220 pounds per leaf over a span of 18ft 4-1/2 inch with minimal deflection. It shall contain door operator and door mounting components. The header cover shall have a continuous self-locking hinge to open flush with the top of the header.
- F. Door Hanger Wheels: Shall be 2-1/2inch (64 mm) diameter urethane wheels with precision steel lifetime lubricated ball bearing centers. The sliding door(s) shall be held on the track by 2inch (51 mm) diameter anti-riser wheels and supported by a factory adjusted cantilever support and pivot assembly. This assembly shall allow the sliding doors to swing outward for emergency egress. The door height shall have an adjustment of  $\pm 1/8$  inch as required by field conditions.
- G. Threshold/Track: Two provided. Shall be recessed & continuous from jamb to jamb, 9inch wide (2- 4-1/2inch). The threshold/track shall not be more than 1/2 inch in height. Raised thresholds more than 1/4 inch

01-01-21

shall be beveled with slope not steeper than 1 in 2. (per NFPA 101 - 5-2.1.3).

- H. Door Operator and Controller: Shall be the driven by one electro-mechanical operator and a regulated electronic controller. The operator components shall consist of a DC permanent magnet 1/8 horsepower motor, gear reduction drive, position encoder, and a microprocessor control box. An electronic counter shall be installed in the header to count the number of open cycles. Contractor to provide 120 VAC, 5 amps minimum to electrical door operator.
- I. Microprocessor Control Box: Torque shall be factory set as prescribed by ANSI A156.10. The control box and position encoder shall automatically set the opening and closing check positions, and the full-open and full-closed position of the door system.
- J. Threshold Sensor: Shall be field installed infrared threshold presence sensor. It shall be a self-contained, fully adjustable sensor system that works in conjunction with motion sensors. Simultaneously with the door-opening signal, the sensor shall be energized. It shall emit a 30 inch deep by 72 inch maximum wide elliptical shaped infrared presence zone centered on the doorway threshold line. The door shall close after the sensor and infrared threshold presence sensor detect a clear surveillance field.
- K. Doorway holding beams: Shall be factory installed at a height of 13 inches per ANSI code A156.10.
- L. Motion Sensor: Shall be the Motion Sensor. The unit shall be switchable between bi-directional and uni-directional K-band frequency to detect all motion, fast or slow, in both directions with a relay hold time of 1.5 - 30 seconds. The Motion Sensor shall be mounted to the header, 10ft-0inch maximum above the finish floor. Using the adjustable antenna the detection pattern shall be semi-circular, approximately 7 ft-0 inch wide by 5ft-0inch deep for a wide zone and approximately 6 ft-0 inch wide by 8ft-0inch deep for a narrow zone. The location of the detection zone shall be adjustable from the face of the door (20 degrees to 35 degrees in increments of 3 degrees). The unit shall operate between -30 degrees through 130 degrees Fahrenheit in all environmental conditions. The supply voltage shall be 12-24 V AC/DC +/- 10% and the power consumption shall be 6 W maximum.

01-01-21

- M. Safety Search Circuitry: Shall be provided which will recycle the doors when an object is encountered during the closing cycle. The circuitry shall search for that object on the next closing cycle by reducing the door speed at the position the object was previously encountered, and will continue to close in check speed until the doors are fully closed, at which time the doors will reset to normal speed. If the obstruction is encountered again, the doors shall come to a full stop. The door shall remain stopped until the obstruction is removed and an operate signal is given, resetting the door to its normal speed.
- N. Weatherstripping: Standard units shall have one and Impact Option shall have two adjustable nylon sweeps on the bottom of the sliding doors. Double pile weatherstripping shall be provided for the sliding door lead edges. Single pile weatherstripping shall be provided between the carrier and the header on the lead stiles of the O-Panel/P-Tube and the pivot stile(s) of the sliding door(s).
- O. Accessories: The Bypass Door automatic sliding door system shall be supplied with a field-installed rotary switch to allow door(s) to open at full or reduced width according to weather and traffic conditions.
- P. Glass: The Bypass Door System with Impact Option shall use 9/16inch laminated glass. The glass must be glazed with Dow #995 or approved equal.

### **2.3 OPERATING CONDITIONS:**

- A. Climatic Conditions: All automatic sliding door system components shall operate between -30 degrees and +130 degrees Fahrenheit, 95% relative humidity.
- B. Performance Requirements: The header shall be capable of supporting bi-parting doors of 220 lbs per leaf over a span of 18ft-4-1/2 inch with a deflection not more than 1/4 inch. For Impact Option, the maximum allowable air infiltration rate is 1.2 cfm/ft<sup>2</sup> in accordance with ASTM test methods.

### **2.4 MATERIALS**

- A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
  - 1. Headers, stiles, rails, and frames 6063-T6
  - 2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
  - 3. Sheet and Plate: ASTM B 209.

01-01-21

B. Sealants and Joint Fillers: Performed under Division 7 Section "Joint Sealants".

C. Stainless Steel: ASTM A240/A240M; Type 302 or Type 304.

## **2.5 FABRICATION**

A. General: Factory fabricate automatic entrance components to designs, sizes, and thickness indicated and to comply with indicated standards.

1. Form aluminum shapes before finishing.

2. Use concealed fasteners to greatest extent possible.

a. Where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration, use self-locking devices.

b. Reinforce members as required to receive fastener threads.

3. Make welds without distorting and discoloring exposed surfaces. Clean and dress welds. Remove welding flux and weld spatter.

B. Framing: Provide automatic entrances as prefabricated assemblies.

1. Fabricate tubular and channel frame assemblies with manufacturer's standard mechanical or welded joints. Provide sub-frames and reinforcement as required for a complete system to support required loads.

2. Perform fabrication operations in manner that prevents damage to exposed finish surfaces.

3. Form profiles that are sharp, straight, and free of defects or deformations.

4. Prepare components to receive concealed fasteners and anchor and connection devices.

5. Fabricate components with accurately fitted joints

C. Doors: Factory fabricated and assembled in profiles indicated.

Reinforce as required to support imposed loads and for installing hardware.

D. Glazing: Fabricate framing with minimum glazing edge clearances for thickness and type of glazing indicated.

E. Hardware: Factory install hardware to the greatest extent possible; remove only as required for final finishing operation and for delivery to and installation at Project site.

## **2.6 FINISHES**

A. Aluminum Anodized Finish: NAAMM AMP 500.

01-01-21

1. Match finish of curtain walls.
2. Clear Anodized Finish: AA-C22A41; Class I Architectural, 0.018 mm (0.7 mil) thick.
3. Color Anodized Finish: AA-C22A42 or AA-C22A44; Class I Architectural, 0.018 mm (0.7 mil) thick.

## **2.7 ACCESSORIES**

- A. Barrier Coating for Dissimilar Metals: ASTM D1187/D1187M.
- B. Fasteners:
  1. Aluminum: ASTM F468, Alloy 2024.
  2. Stainless Steel: ASTM F593, Alloy Groups 1, 2 and 3.
  3. Install surface mounted hardware using concealed fasteners to greatest extent possible.
- C. Anchors: Aluminum or stainless steel; type to suit application.
- D. Touch-Up Paint: Match shop finish.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Examine conditions for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of automatic entrances. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Verify substrate suitability for product installation.
  1. Coordinate floor closer installation recessed into concrete slabs.
  2. Coordinate anchor installation built into masonry and concrete.
  3. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight, and secure; substrates to be of proper dimension and material.
  4. Other trades: General Contract shall advise of any inadequate conditions or equipment.
- C. Protect existing construction and completed work from damage.
- D. Clean substrates. Remove contaminants capable of affecting subsequently installed product's performance.
- E. Apply dielectric tape or barrier coating to aluminum surfaces in contact with dissimilar metals and cementitious materials to minimum 0.7 mm (30 mils) dry film thickness.

### **3.2 INSTALLATION - GENERAL**

- A. Project Conditions

01-01-21

1. Field Measurements: Verify actual dimensions of openings to receive automatic entrances by field measurements before fabrication and indicate on shop drawings.
- B. Install products according to manufacturer's instructions and approved submittal drawings.
  1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.
- C. Install aluminum framed entrances and storefronts plumb and true, in alignment and to lines shown on drawings.
- D. Anchor frames to adjoining construction at heads, jambs and sills.
- E. Provide concealed aluminum clips to connect adjoining frame sections.
- F. Install door hardware and hang doors. See Section 08 71 00, DOOR HARDWARE.
- G. Install door operators.
- H. Adjust doors and hardware uniform clearances and proper operation.
- I. Level recesses for recessed floor tracks using shrinkage-resistant grout.
- J. Air Leakage: Install entrance assemblies for smoke-control and pressurized rooms according to NFPA 105 and as indicated.
- K. Touch up damaged factory finishes.
  1. Repair galvanized surfaces with galvanized repair paint.
  2. Repair painted surfaces with touch up primer.
- L. Tolerances:
  1. Variation from Plumb, Level, Warp, and Bow: Maximum 3 mm in 3 meters (1/8 inch in 10 feet).
  2. Variation from Plane: Maximum 3 mm in 3.65 meter (1/8 inch in 12 feet); 6 mm (1/4 inch) over total length.
  3. Variation from Alignment: Maximum 1.5 mm (1/16 inch) in-line offset and maximum 3 mm (1/8 inch) corner offset.
  4. Variation from Square: Maximum 3 mm (1/8 inch) diagonal measurement differential.

### **3.3 PROTECTION, CLEANING AND REPAIRING**

- A. Clean exposed aluminum and glass surfaces. Remove contaminants and stains.

01-01-21

- B. Protect aluminum-framed entrances and storefronts from construction operations.
- C. Remove protective materials immediately before acceptance.
- D. Repair damage.

**3.4 ADJUSTING**

- A. Adjust alignment of entrances and hardware for smooth, safe operation with minimum air infiltration, and complying with requirements in the specified ANSI/BHMA standard.
- B. Verify installation and alignment of all entrance gasketing as required for minimum air infiltration and compliance with specified standards.

**3.5 DEMONSTRATION**

- A. Engage a factory-authorized representative to train Owner's maintenance personnel to adjust, operate, and maintain safe operation of the door.

- - - E N D - - -