

**STAFF REPORT:** 05-12-2021 MEETING

**PREPARED BY:** A. DYE

**APPLICATION NUMBER:** 21-7210

**ADDRESS:** 66 ADELAIDE

**HISTORIC DISTRICT:** BRUSH PARK

**APPLICANT:** TOM CARLSON, E & L CONSTRUCTION GROUP

**PROPERTY OWNER:** AMO APARTMENTS

**DATE OF PROVISIONALLY COMPLETE APPLICATION:** 04-19-21

**DATE OF STAFF SITE VISIT:** 04-30-21

**SCOPE:** DEMOLISH ELEVATOR PENTHOUSE; ERECT NEW PENTHOUSE

**EXISTING CONDITIONS**

The six-story apartment building at 66 Adelaide was constructed in 1913. The structure fills the depth of the lot and is positioned against the west property line, leaving a greenspace to the east. The building retains much of its historic architectural detail including the entrance colonnade, decorative brick work and limestone veneer on the first floor and limestone banding on the upper floors. The existing cornice matches the design and dimension of the cornice in place at the time of historic district designation, and may likely be original.



Left: HDC site visit  
Above Google Maps  
Right: Photo provided  
by applicant



**PROPOSAL**

The applicant is seeking the Commission’s approval for the demolition of an existing elevator penthouse and the construction of a new penthouse to accommodate new, larger elevator equipment.

**Demolition**

Size: 10’ deep x 10’ wide (finished height is 8’ from lower roof/5’ from upper roof) masonry structure with metal roof and access door.

**Construction**

Size: 12’-10” deep x 11’-7” wide x 11’-1” high (finished height)

Frame: structural steel

Metal wall panels

MCBI CF Mesa, insulated metal panels, 42” wide x 2-1/2” deep 24-ga. face and 26-ga. liner. Stucco embossed texture, color: polar white (two coat Kynar finish)

Roof panels

MCBI, CFR insulated metal standing seam panels, 42” wide x 4” deep, 24-gauge face and 26-gauge liner. Stucco embossed texture, color: polar white (two coat Kynar finish)

Trim

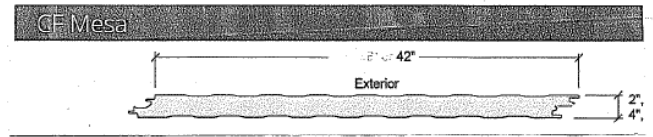
To be fabricated from brake trim metal. Color and texture to match panels.

Door

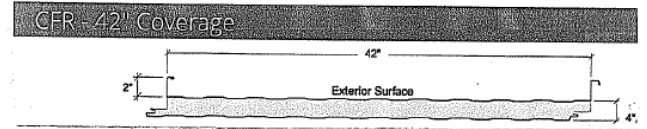
Republic metal solid flush panel door (DP Series) Color: painted white

Railing/Stairs

1-1/2” diameter galvanized steel pipe handrail Galvanized steel bar grate landing/ treads and galvanized steel stringer



WALL PANEL



ROOF PANEL

**STAFF OBSERVATIONS AND RESEARCH**

- The Brush Park Historic District was established in 1980.
- The metal panels and shed roof create a minimally detailed enclosure for the new, larger equipment and easily identifies the structure as contemporary construction.
- Due to the height of the building and the fact that most of the block is filled with attached townhouse developments, the existing penthouse is minimally visible. Penthouses are common elements projecting from roofs and are generally not character-defining features.

**ISSUES**

- When looking east towards 66 Adelaide from the west end of Adelaide near Woodward, or to the northeast from Winder, the penthouse is slightly visible and its height will increase marginally with this proposal. Staff’s concern is with the selected color, “polar white”, and its reflectivity and stark contrast to the historic dark brick. The color “Brownstone” is an option within the standard color palette and would allow the new penthouse to be neutral against the historic brick and other roof projections.



Left: Looking east, HDC site visit  
Right: Looking northeast, Google Maps

## **RECOMMENDATION**

### Section 21-2-78, Determination of Historic District Commission

It is staff's opinion the demolition of the existing penthouse for the installation of larger elevator equipment, and the construction of a new penthouse as proposed will not alter the features and spaces that characterize the property. Staff therefore recommends the Commission issue a Certificate of Appropriateness for the work as proposed because it meets the Secretary of the Interior Standards for Rehabilitation and the Elements of Design for the district.

Staff recommends the Certificate of Appropriateness be issued with the following condition:

- The color of the metal wall and roof panels will be "Brownstone" and the metal door and trim will be painted to match the panel color.

# HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

CITY OF DETROIT  
PLANNING & DEVELOPMENT DEPARTMENT  
2 WOODWARD AVENUE, ROOM 808, DETROIT, MI 48226

DATE: \_\_\_\_\_

## PROPERTY INFORMATION

ADDRESS: \_\_\_\_\_ AKA: \_\_\_\_\_

HISTORIC DISTRICT: \_\_\_\_\_

**SCOPE OF WORK:** (Check ALL that apply)

<input type="checkbox"/> Windows/ Doors	<input type="checkbox"/> Roof/Gutters/ Chimney	<input type="checkbox"/> Porch/ Deck	<input type="checkbox"/> Landscape/Fence/ Tree/Park	<input type="checkbox"/> General Rehab
<input type="checkbox"/> New Construction	<input type="checkbox"/> Demolition	<input type="checkbox"/> Addition	<input type="checkbox"/> Other: _____	

## APPLICANT IDENTIFICATION

Property Owner/  
Homeowner       Contractor       Tenant or  
Business Occupant       Architect/Engineer/  
Consultant

NAME: \_\_\_\_\_ COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_ MOBILE: \_\_\_\_\_ EMAIL: \_\_\_\_\_

## PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

**\*PLEASE KEEP FILE SIZE OF ENTIRE SUBMISSION UNDER 30MB\***

- Completed Building Permit Application** (highlighted portions only)
- ePLANS Permit Number** (only applicable if you've already applied for permits through ePLANS)
- Photographs** of ALL sides of existing building or site
- Detailed photographs** of location of proposed work (photographs to show existing condition(s), design, color, & material)
- Description of existing conditions** (including materials and design)
- Description of project** (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)
- Detailed scope of work** (formatted as bulleted list)
- Brochure/cut sheets** for proposed replacement material(s) and/or product(s), as applicable

### NOTE:

Based on the scope of work, additional documentation may be required.

See [www.detroitmi.gov/hdc](http://www.detroitmi.gov/hdc) for scope-specific requirements.

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

**SUBMIT COMPLETED REQUESTS TO [HDC@DETROITMI.GOV](mailto:HDC@DETROITMI.GOV)**

# Historic District Commission Project Review Request

Permit Application: See Attached  
ePLANS - Record ID: BLD2021-00477

## Exterior Building Photos



West Elevation



North Elevation



North Elevation



East Elevation



South Elevation

Detailed Photographs



East Elevation of Structure to be Replaced



South Elevation of Structure to be Replaced



North Elevation of Structure to be Replaced



West Elevation of Structure to be Replaced

**Description of Existing Conditions**

Brick structure about 10'x10' square and 5' high off upper roof section and 8' high off lower roof section. Structure has a metal roof and access door.

**Description of Project**

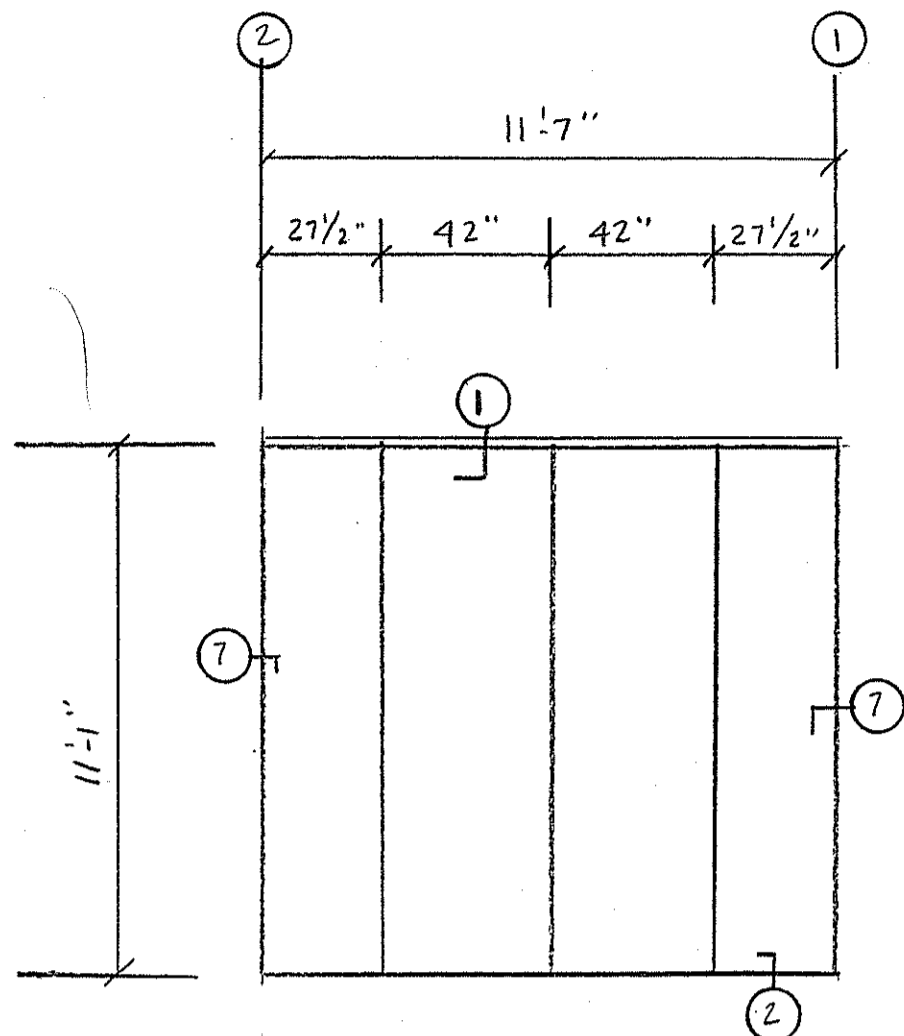
Removing the existing elevator penthouse to about 5' down from the metal roof covering the penthouse. This will allow for us to not disturb the building roof. We will then use the existing brick wall to support a new structural steel and insulated metal panel penthouse with proper access door, ladder and clear work room around the equipment. All equipment for the elevator will now be located in this room and removed from the basement. The current elevator penthouse will not accommodate all the new elevator equipment being installed as it is currently only used for the top elevator pulleys. No other equipment is located in this room. According to the owner the city has requested that before any more inspection can occur that the elevator must be replaced and elevator equipment removed from the basement and installed on the roof. This change requires a larger penthouse to accommodate the new equipment.

**Detailed Scope of Work**

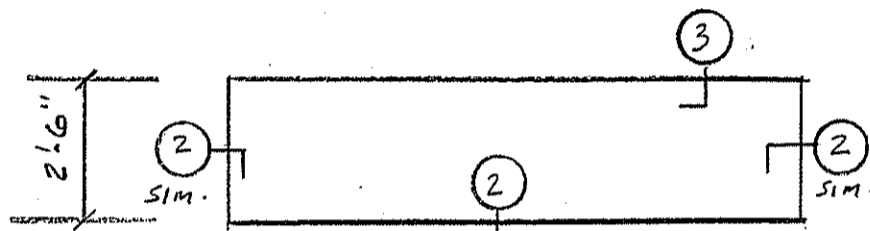
- Remove elevator equipment in room
- Remove metal roof
- Remove brick to about 5' down from the existing penthouse roof
- Remove door and Misc.
- Crane lift down demo materials and crane lift up new materials
- Set new structural steel base beams atop of existing brick shaft walls to accommodate new penthouse
- Set new structural steel frame to accept metal wall panels
- Set new grating, stairs and access door
- Install new insulated metal wall panels
- Install new insulated metal roof panels
- Install new elevator equipment
- Install required electrical to room

**Brochure / Cut Sheets**

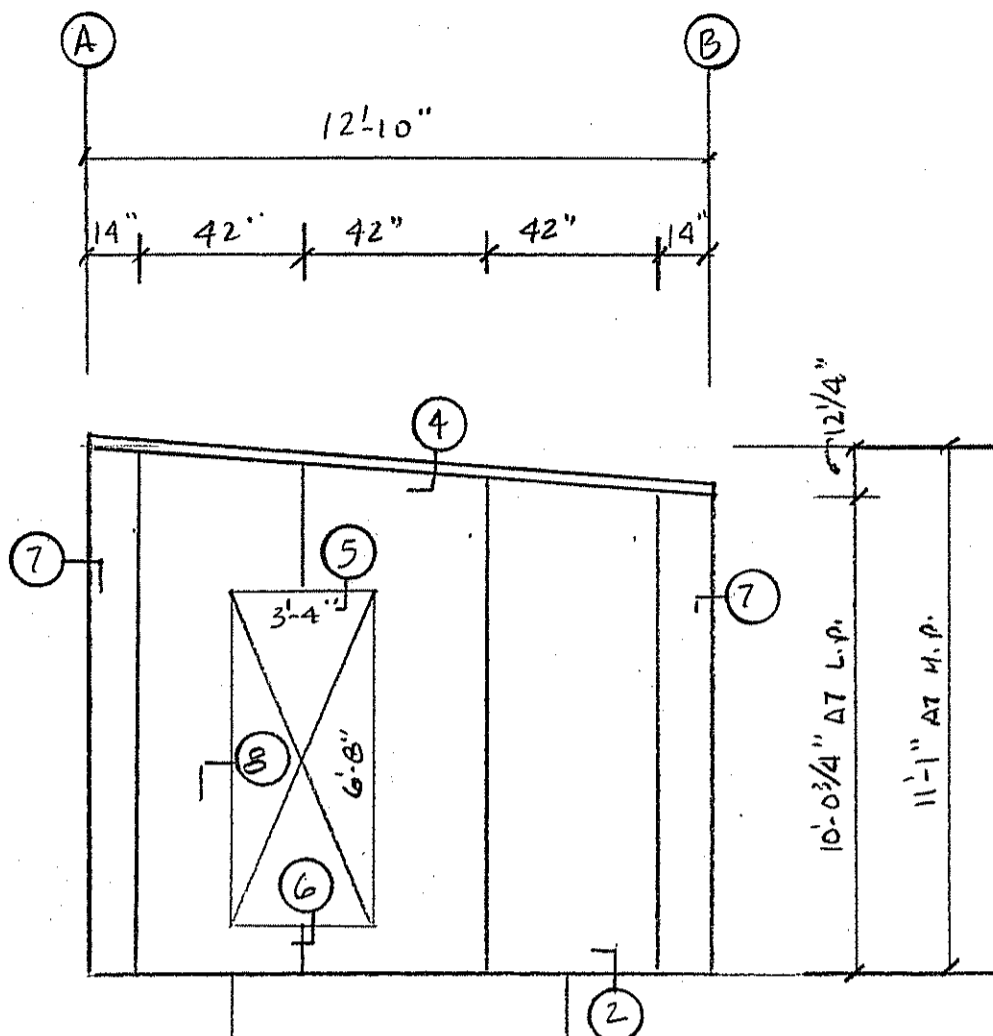
See Attached



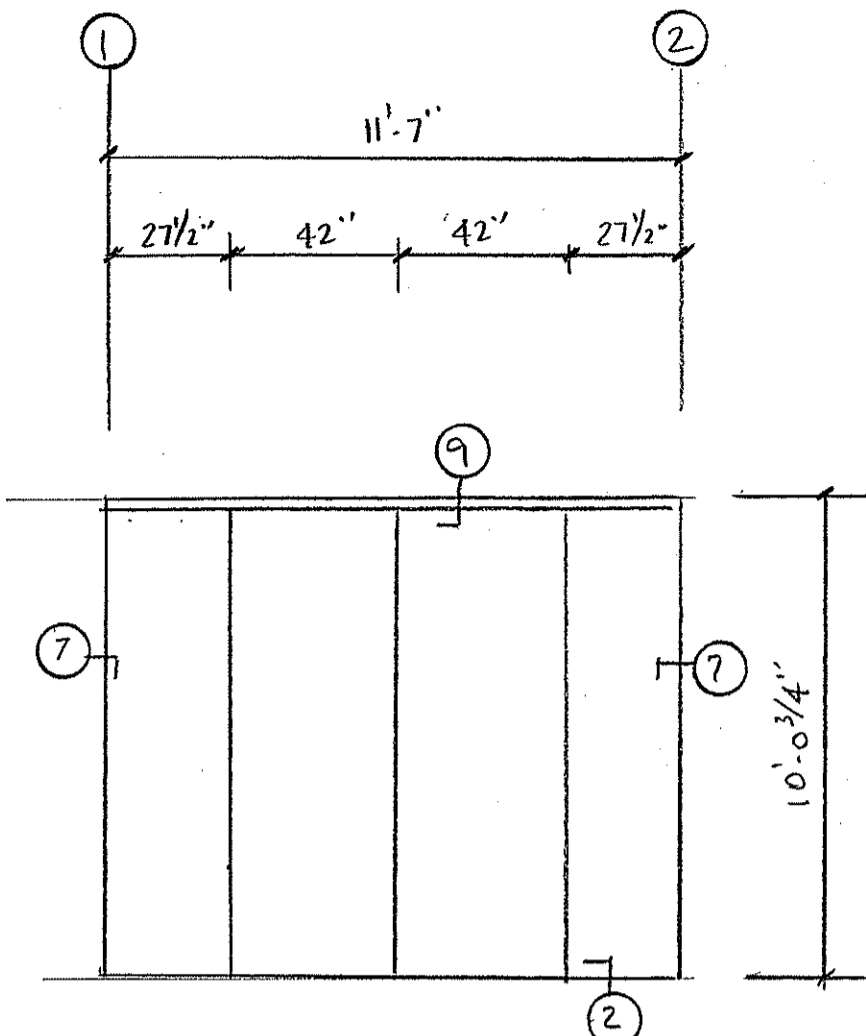
SOUTH ELEVATION  
4 e 11'-1"



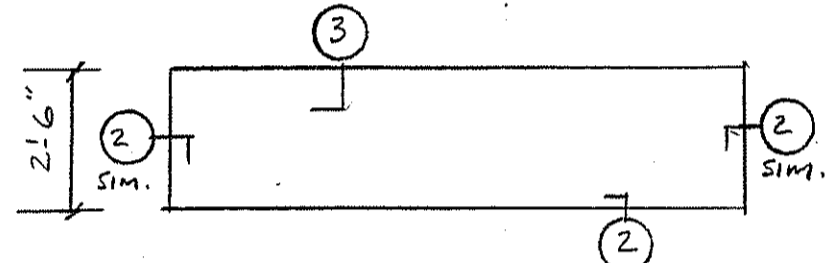
SOFFIT PLAN  
1 e 11'-7"



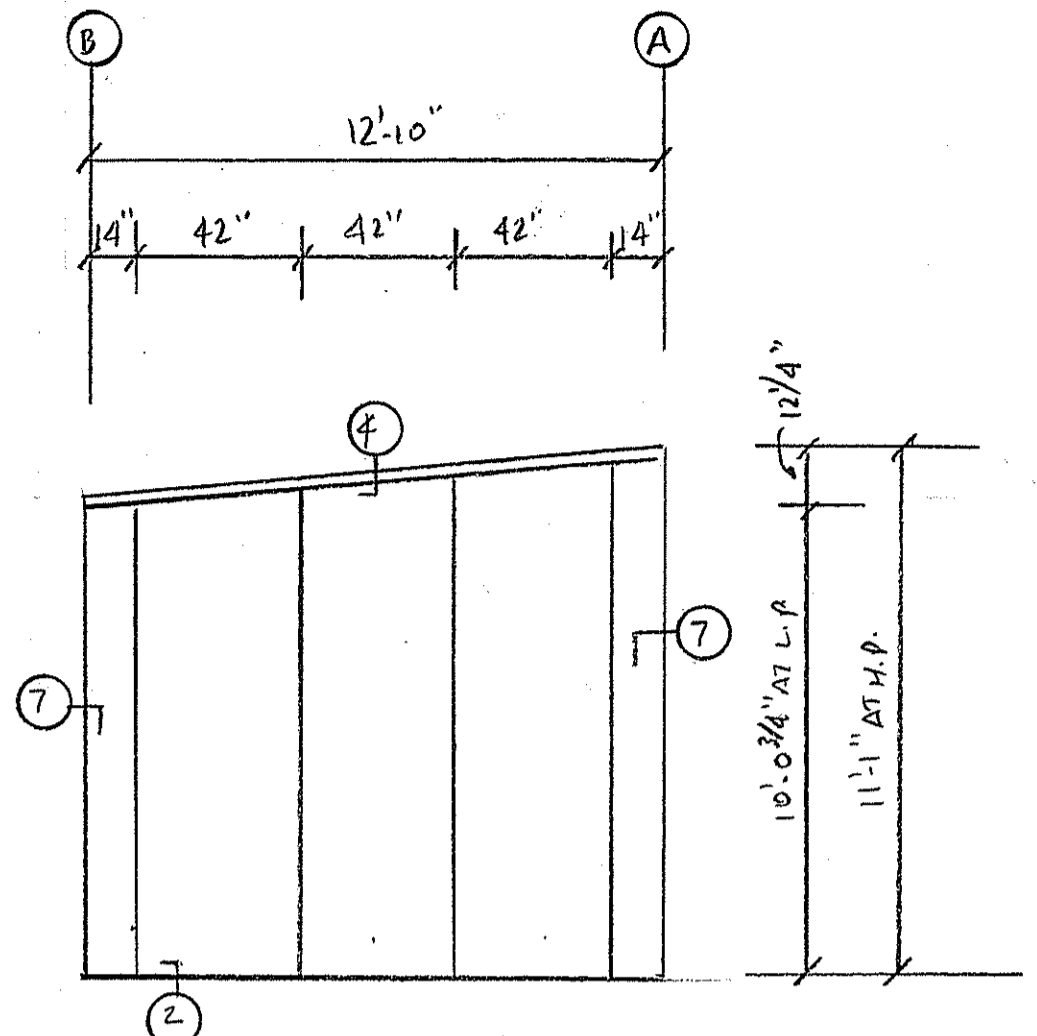
WEST ELEVATION  
4 e 11'-1"



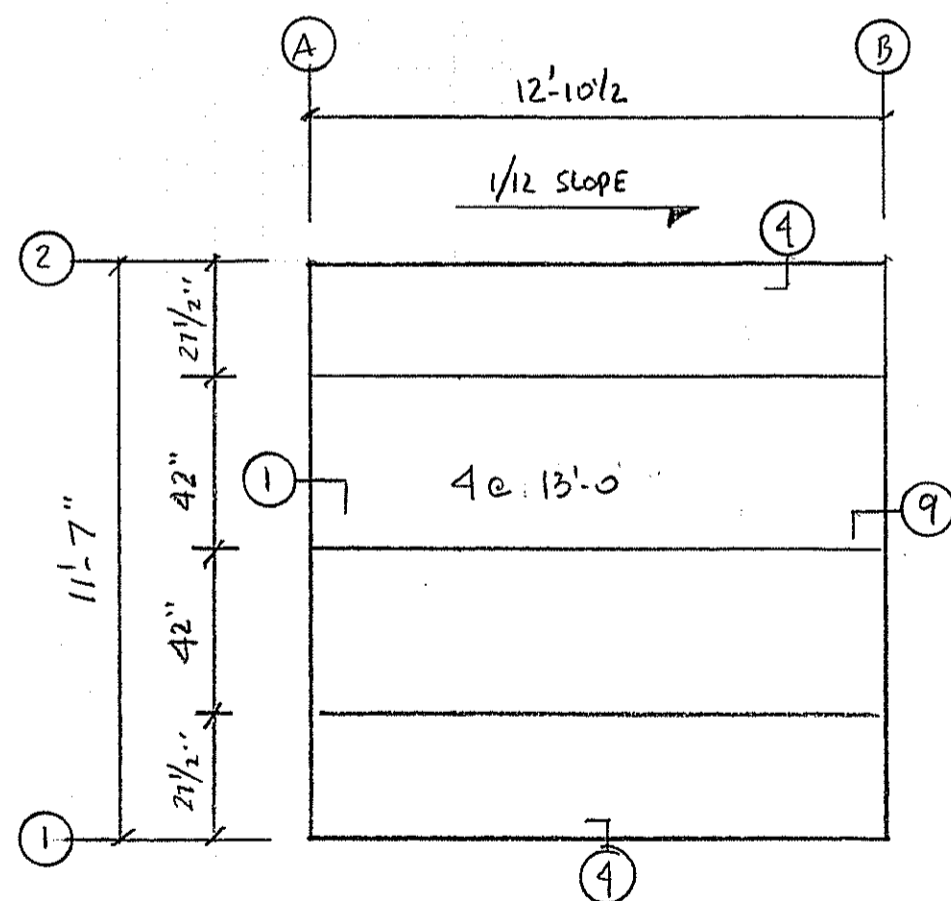
NORTH ELEVATION  
4 e 10'-0 3/4"



SOFFIT PLAN  
1 e 11'-7"



EAST ELEVATION  
4 e 11'-1"



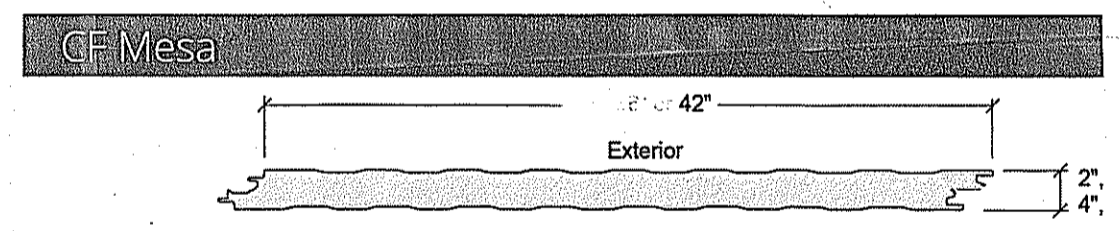
ROOF PLAN

# 66 Adelaide

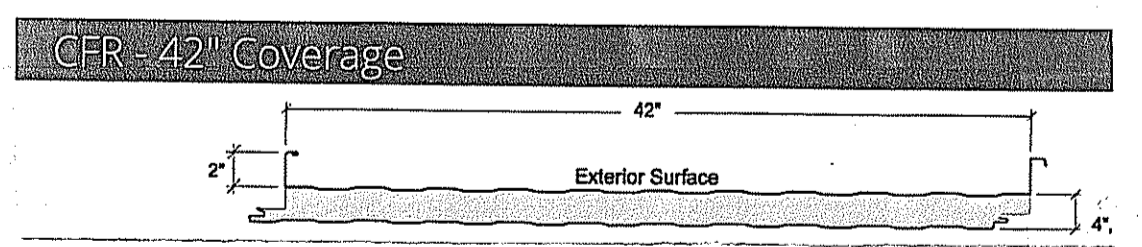
Detroit, Michigan

**General Notes:**

1. Insulated metal wall and roof panels to be manufactured by M.B.C.I.
2. Wall panel profile to be CF-42F, 42" wide x 2 1/2" deep. 24-gauge Face and 26-gauge liner. Stucco Embossed texture.
3. Roof panel profile to be CFR-42, 42" wide x 4" deep. 24-gauge face and 26-gauge liner. Stucco Embossed texture.
4. All trim to be fabricated from brake metal trim. Color and texture to match panels.
5. Wall and roof panels to have a standard color two coat Kynar finish. Color to be selected from manufacturer's standard stock color chart.
6. All related sealants are included.

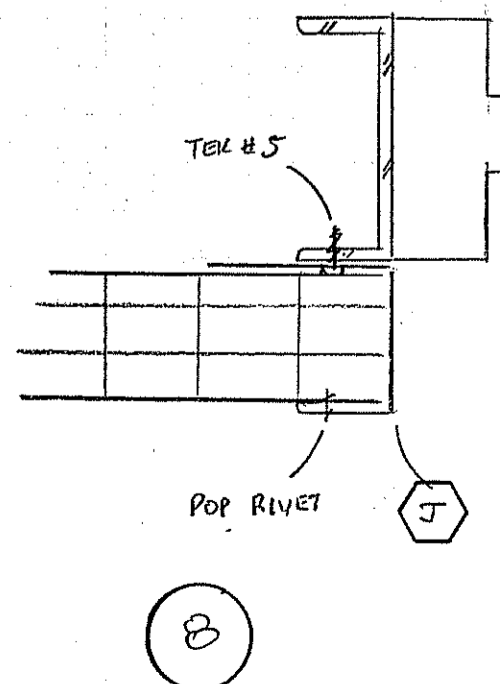
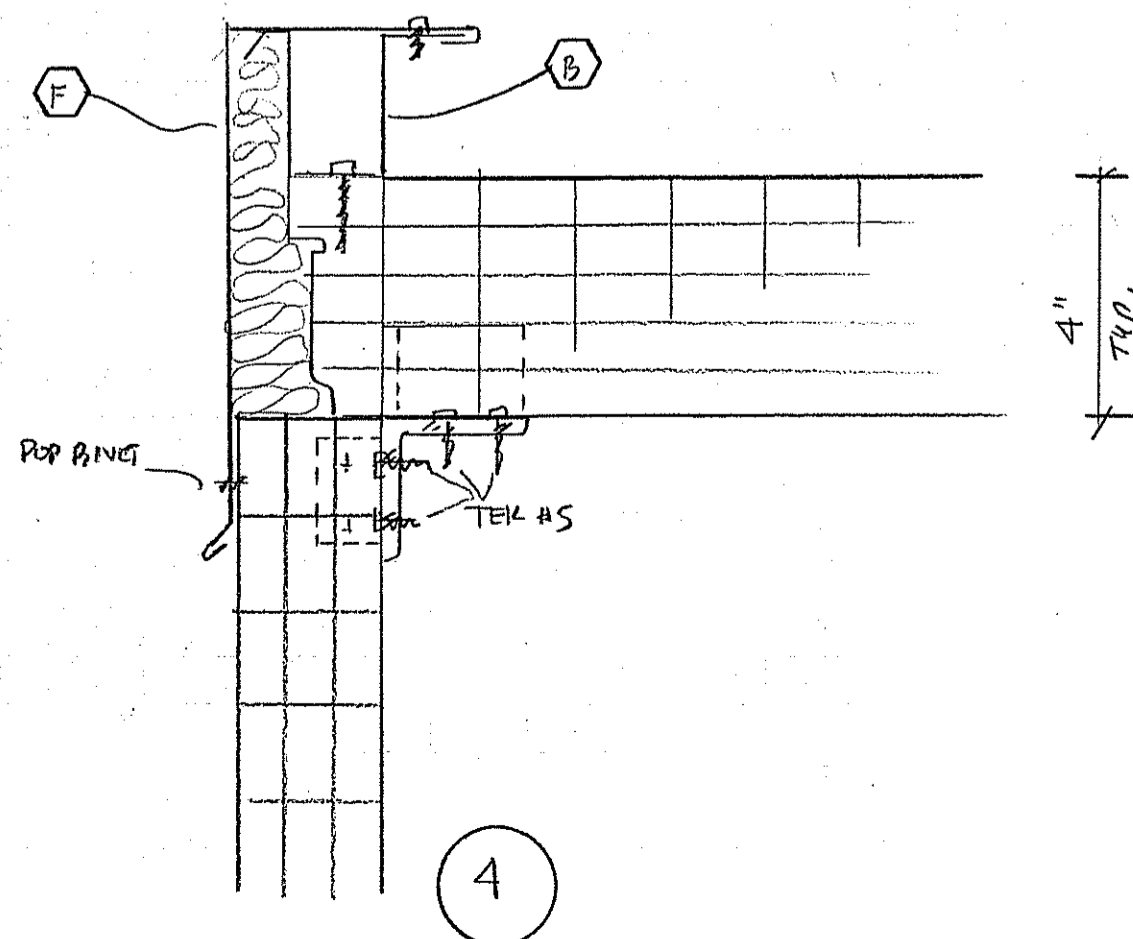
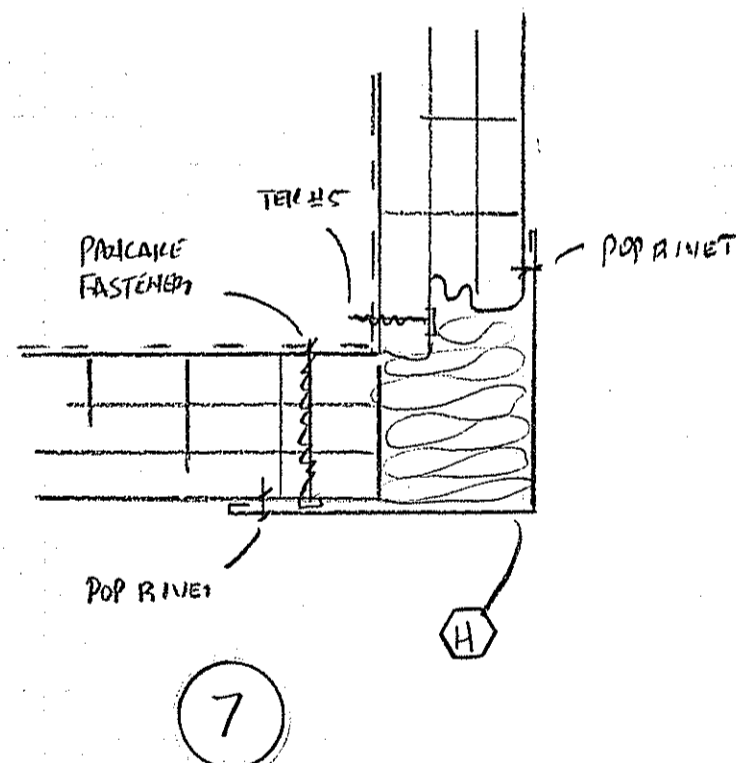
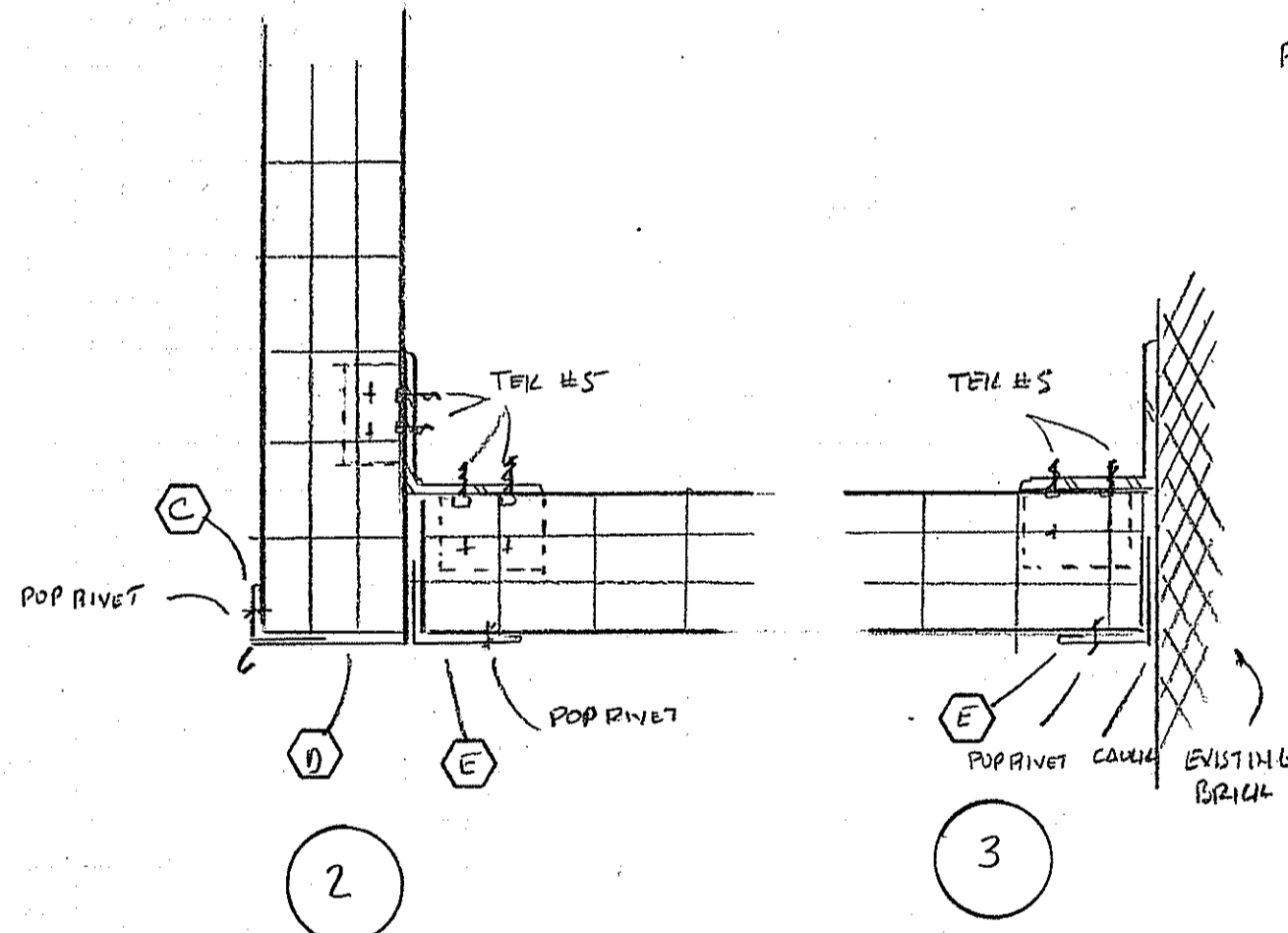
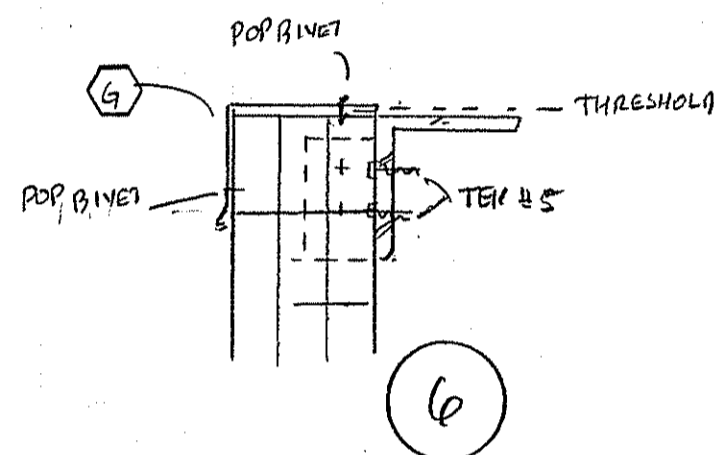
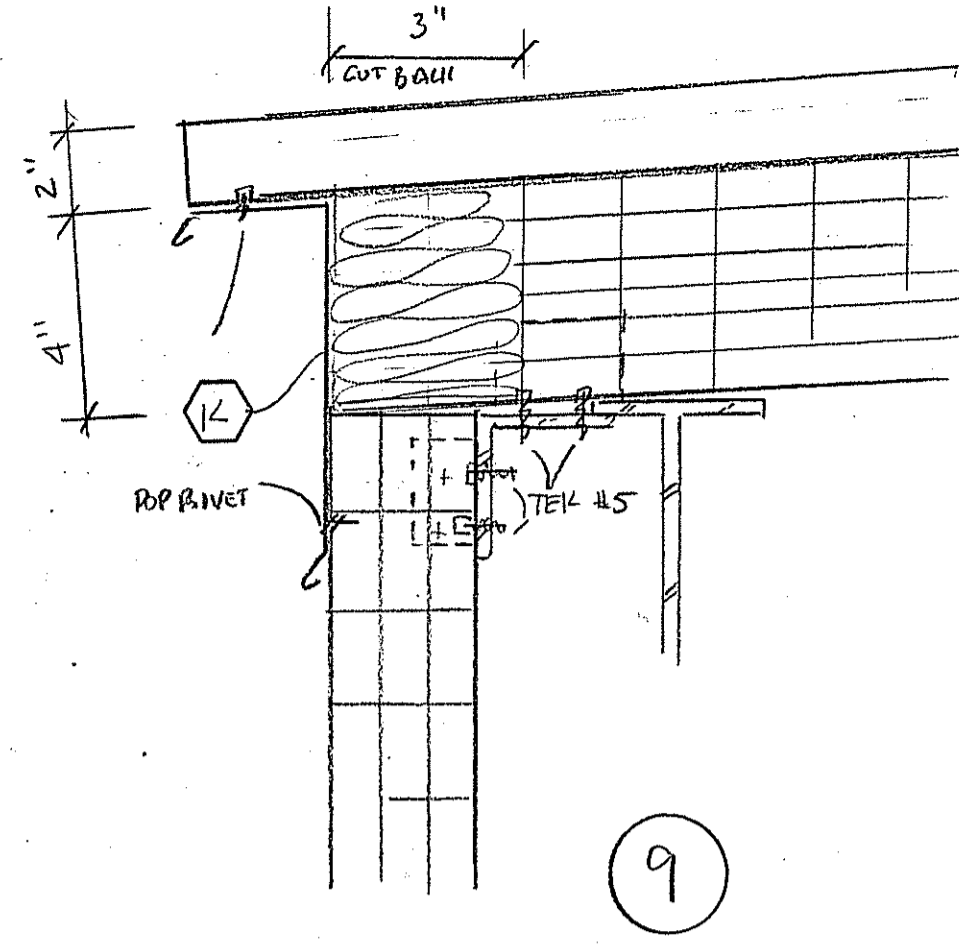
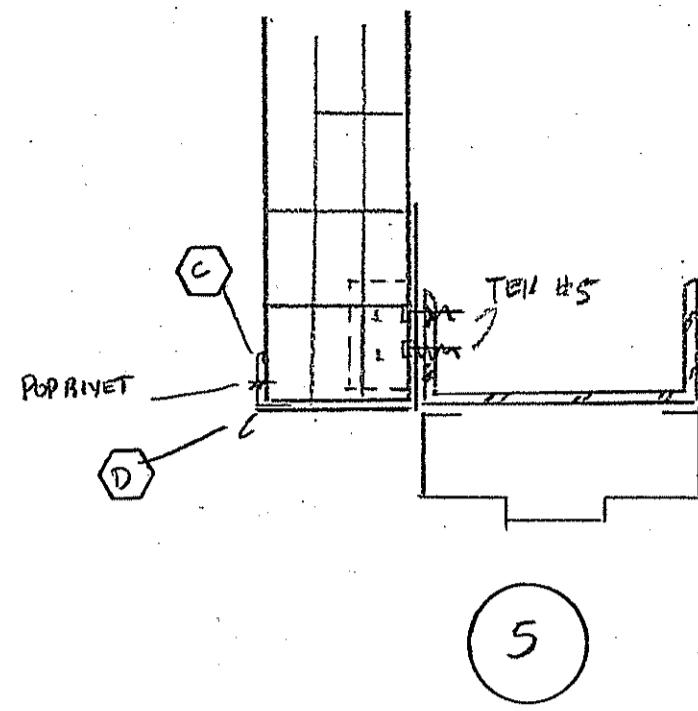
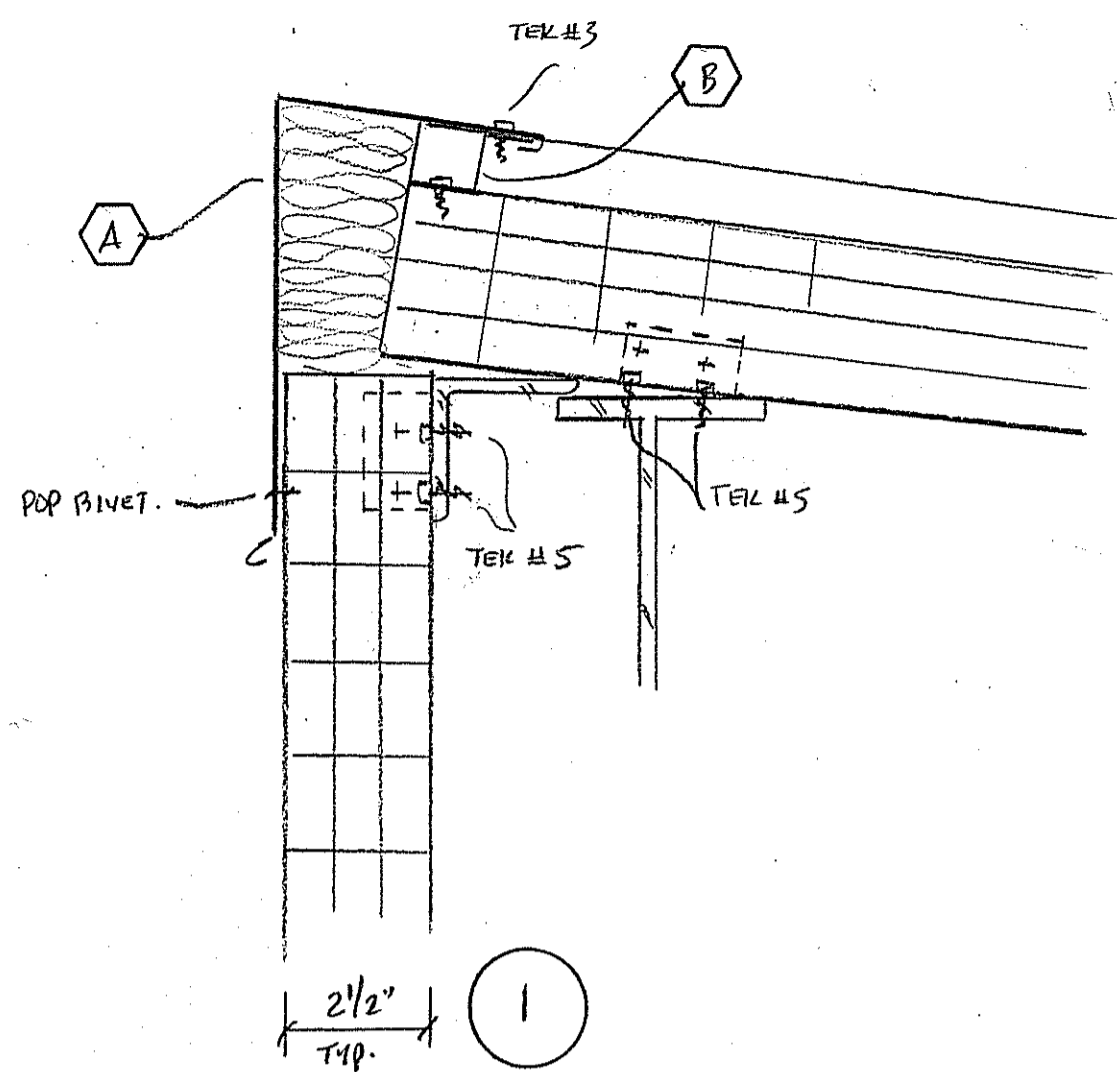


WALL PANEL



ROOF PANEL





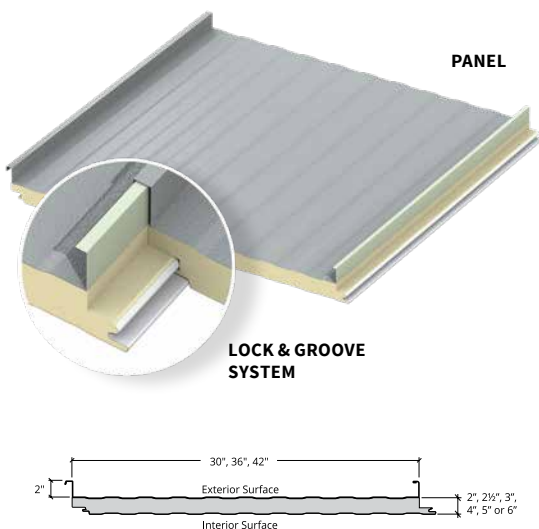
<p><b>A</b></p> <p>S.O. 12 1/4" MAIL #1 REQ'D. 2 @ 10' 0"</p>	<p><b>B</b></p> <p>S.O. 6" MAIL #1 REQ'D. 4 @ 10' 0"</p>
<p><b>C</b></p> <p>S.O. 3 1/2" MAIL #1 REQ'D. 6 @ 10' 0"</p>	<p><b>D</b></p> <p>S.O. 8 1/4" MAIL #1 REQ'D. 6 @ 10' 0"</p>
<p><b>E</b></p> <p>S.O. 4 1/2" MAIL #1 REQ'D. 6 @ 10' 0"</p>	<p><b>F</b></p> <p>S.O. 11 1/2" MAIL #1 REQ'D. 4 @ 10' 0"</p>
<p><b>G</b></p> <p>S.O. 6 3/4" MAIL #1 REQ'D. 1 @ 10' 0"</p>	<p><b>H</b></p> <p>S.O. 12" MAIL #1 REQ'D. 6 @ 10' 0"</p>
<p><b>J</b></p> <p>S.O. 6 1/8" MAIL #1 REQ'D. 2 @ 10' 0"</p>	<p><b>K</b></p> <p>S.O. 10 1/2" MAIL #1 REQ'D. 2 @ 10' 0"</p>
<p><b>L</b></p> <p>OPEN</p>	<p><b>MATERIAL DESCRIPTION</b></p> <p>MAIL #1 24 GA. GALV STUCCO EMBOSSED W/LEMAN FINISH</p> <p>COLOR: _____</p>



# INSULATED METAL PANELS

# CFR

CFR is an insulated metal roof standing seam roof panel and is the newest innovation in all-in-one composite roof panel design, combining durable interior and exterior faces with an unmatched polyurethane core. The CFR insulated metal standing seam roof panel is a truly unique answer to many deficiencies common with more traditional roofing materials of the past.



### Features and Benefits:

- The CFR roof panel is ideal for architectural, commercial, industrial and institutional applications.
- Due to their careful design features, this roof system requires very little field reworking and can be easily and quickly installed.

### Product Specifications

- **Applications:** Roof
- **Length:** 9'-6" to 53'-0"
- **Coverage Widths:** 42" (standard); 30"\*\*, 36" (optional)
- **Thicknesses:** 2", 2½", 3", 4", 5", 6"
- **Panel Attachment:** Concealed fastening system
- **Gauges Exterior:** 24, 22; Interior: 26, 24, 22
- **Finishes Exterior:** Galvalume Plus®, Stucco-embossed; Interior: Stucco-embossed
- **Coatings Exterior:** Signature® 200, Signature® 300; Interior: Igloo White (standard)

### U-Factors and R-Values\*

U-factor (BTU-/h-ft2-° F)		R-Value (h-ft2-° F/BTU)	
PANEL WIDTH: 42"		PANEL WIDTH: 42"	
	75°		75°
2"	0.0600	2"	16.67
2½"	0.0490	2½"	20.41
3"	0.0414	3"	24.15
4"	0.0318	4"	31.45
5"	0.0257	5"	38.91
6"	0.0217	6"	46.08

\* Based on ASTM C518, ASTM C1363 and thermal modeling, 75° F core mean temp.

\*\* Available only from Metl-Span's Texas plant

## INSULATED METAL PANELS

TEST/APPROVAL	TEST METHOD	TEST TITLE	RESULTS
<b>FIRE US</b>	ASTM E84	Surface Burning Characteristics of Building Materials	Flame spread <25, smoke developed <450
	ASTM E108	Standard Test Methods for Fire Tests of Roof Coverings	Passed Class A
	FM 4880	Class 1 Fire Rating of Insulated Wall, Ceiling and Roof Panels	Product approved Exterior roof requires FM 4471 approval
	NFPA 286	Fire Tests for Evaluating Contribution of Wall and Ceiling Finish to Roof Fire Growth	Test specimen met the criteria of the IBC Section 803.1.2.1
<b>FIRE CANADA</b>	CAN/ULC S102	Surface Burning Characteristics of Building Materials and Assemblies	Meets the National Building Code of Canada requirements
	CAN/ULC S107	Methods of Fire Tests of Roof Coverings	Passed Class A
	CAN/ULC S126	Fire Spread Under Roof-Deck Assemblies	Met the criteria of the standard
<b>STRUCTURAL</b>	ASTM E72	Strength Tests of Panels for Building Construction	See Load Chart
	ASTM E1592	Structural Performance of Metal Roof and Siding Systems by Uniform Static Air Pressure Differences	See Load Chart
	FM 4471	Class 1 Exterior Roof Structural Performance	See FM Roof Load Chart
	UL 580	Uplift Resistance of Roof Assemblies	UL Class 90 Uplift at 5' and 7'
	UL 1897	Uplift Tests for Roof Covering Systems	Uplift Resistance of 166 psf at 5' Uplift Resistance of 140 psf at 7'
<b>THERMAL PERFORMANCE</b>	ASTM C518	Steady-State Thermal Transmission Properties by Means of the Heat-Flow Meter Apparatus	K-Factor of 0.126 BTU.in/hr.ft <sup>2</sup> .°F at 40° F mean core K-Factor of 0.14 BTU.in/hr.ft <sup>2</sup> .°F at 75° F mean core
	ASTM C1363	Thermal Performance of Building Materials and Envelope Assemblies	See Thermal Performance Guide
<b>AIR INFILTRATION</b>	ASTM E1680	Rate of Air Leakage Through Exterior Metal Roof Panel Systems	<0.023 cfm/ft <sup>2</sup> at 12 psf
<b>WATER INFILTRATION</b>	ASTM E1646	Water Penetration of Exterior Metal Roof Panel Systems by Static Air Pressure Differences	No uncontrolled leakage when tested to a static pressure of 12 psf Vertical or horizontal installation
<b>SPECIAL APPROVAL</b>	Miami-Dade NOA	Product Approval for City of Miami and Dade County	Product has City of Miami and Dade County Notice of Acceptance
	State of Florida	Product Approval for the State of Florida	Product has State of Florida approval

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**INSULATED SOLUTIONS**

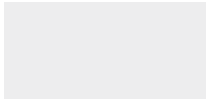
Color Chart

# SIGNATURE<sup>®</sup> 300 PAINT COLORS

## STANDARD COLORS

Polyvinylidene Fluoride (PVDF) Low Gloss

### Standard I



POLAR WHITE



SANDSTONE

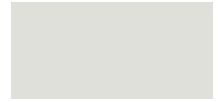
### Standard II



ALMOND



BROWNSTONE ★



REGAL GRAY

## PREMIUM I COLORS

Polyvinylidene Fluoride (PVDF) Low Gloss

Minimum quantities and/or extended lead times may be required. Please inquire.



HARBOR BLUE ★



PACIFIC BLUE ★



AEGEAN BLUE



SPRUCE ★



NATURAL PATINA ★



CLASSIC GREEN ★



HUNTER GREEN ★



MEDIUM BRONZE ★



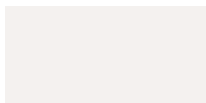
SLATE GRAY ★



TUNDRA ★



SMOKE GRAY



SNOW WHITE ★



TERRA COTTA



BRITE RED ★



COLONIAL RED ★

## PREMIUM II METALLIC COLORS

**NOTE:** Metallic coatings are directional. Panels and trim must be installed oriented in the same direction to prevent perceived shade variances.



CHAMPAGNE



COPPER METALLIC ★



SILVER METALLIC ★



WEATHERED ZINC



DARK GRAY METALLIC

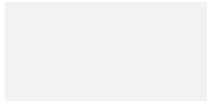


★ ENERGY STAR<sup>®</sup>  
Qualified

# SIGNATURE® 200 PAINT COLORS

## STANDARD WEATHER XL COLORS

Siliconized Polyester Standard Gloss  
\*Igloo White is a Straight Polyester.



WINTER WHITE



LIGHT STONE ★



ASH GRAY ★

## PREMIUM WEATHER XL COLORS

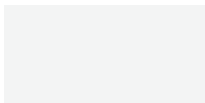
Siliconized Polyester

\*\*Polar White is a Straight Polyester.

Minimum quantities and/or extended lead times may be required. Please inquire.



FERN GREEN ★



SOLAR WHITE



CRIMSON RED ★



RUSTIC RED ★



HAWAIIAN BLUE ★



BURNISHED SLATE ★



CHARCOAL GRAY ★



KOKO BROWN ★



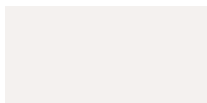
DESERT SAND ★



SADDLE TAN ★

## STANDARD INTERIOR COLORS

\*Igloo White is a Straight Polyester.



IGLOO WHITE\*

### Final color selection should be made from metal color chips.

- See product selection chart for gauge and color availability.
- Heavier gauges, narrower widths and embossing minimize "oil canning."
- Review the sample warranty for complete performance attributes and terms and conditions.
- For locations outside the continental USA and Canada, please inquire.



★ ENERGY STAR®  
Qualified

# APPLIED FINISHES

## TUFF COTE® FIBER-REINFORCED POLYMER COATING

FOR TUFF-WALL™ OR TUFF CAST® PANELS ONLY

Optional finishes for CF Architectural, CF Mesa, Striated, Santa Fe, 7.2 Insul-Rib™ and LS-36™ (wall only) panels.

**NOTE:** These finishes require the exterior skin of the panel to be manufactured from coil with a matta matte finish of the same color as the applied finish.

\* Light Stone Tuff Cote® does not match Light Stone siliconized polyester color offerings.

### Standard Options



TEXTURED WHITE



LIGHT STONE



MEDIUM BEIGE



LIGHT GRAY



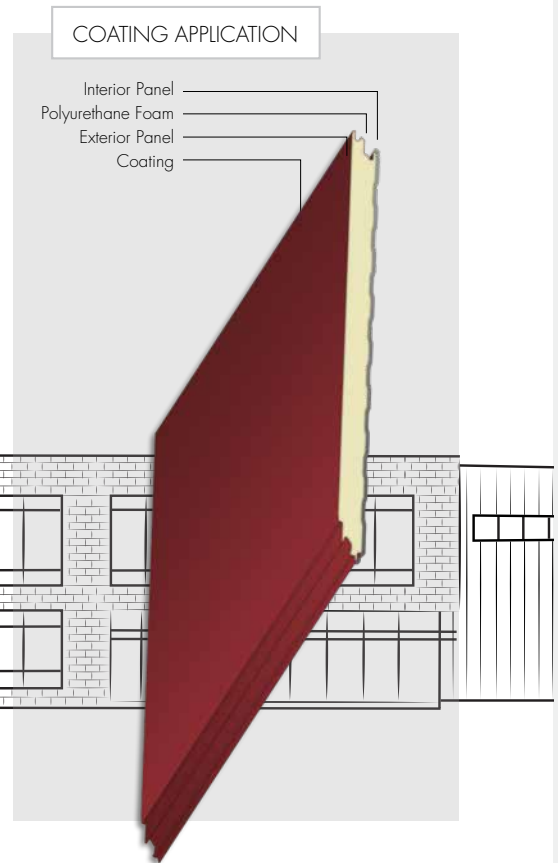
SURREY BEIGE



ANTIQUE BRONZE

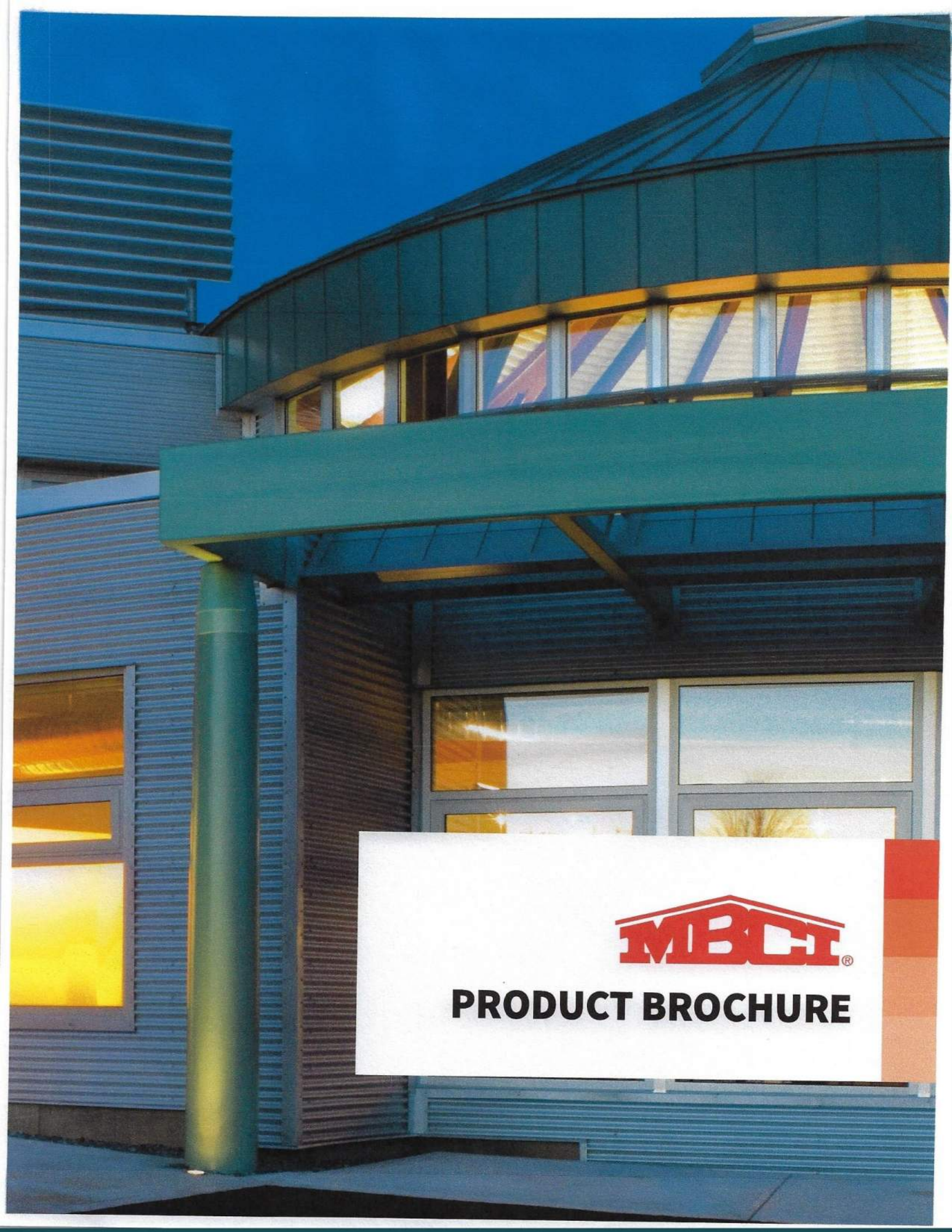


WARM LIMESTONE



844-327-1748 | [mbc.com](http://mbc.com) | [shop.mbc.com](http://shop.mbc.com)

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0711209991101/RevA/MS/1120



**PRODUCT BROCHURE**





# INSULATED METAL PANELS

MBCI's insulated metal panels, manufactured by Metl-Span, deliver both attractiveness and energy-efficiency to a building's design. As building and energy codes become increasingly more stringent, insulated panels are particularly advantageous in achieving sustainable design and code compliance.

Insulated metal panels (IMPs) present many advantages for building owners, designers and contractors, including improved thermal performance, excellent insulating capabilities, reduced building operational expenses, accelerated construction schedules, earlier business starts and much more. Available in a wide variety of panel profiles, colors and applied finishes, IMPs are ideal for architectural, commercial, industrial and institutional applications.

*Above Photo*

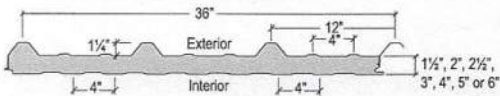
**PROJECT:** Fujisawa Healthcare Inc. **LOCATION:** Grand Island, NY **PANEL PROFILE:** CF Architectural/Horizontal **COLOR:** Silver Metallic



**PROJECT:** Armstrong Way **LOCATION:** Plymouth, MA **PANEL PROFILE:** Striated **COLOR:** Bright Silver

## LS-36™

The versatility of the LS-36™ panel offers a multitude of design options and can be utilized for roof or wall applications. The standard exterior skin is smooth but can be embossed if requested, while the interior skin is roll-formed with our standard stucco-embossed Mesa profile.



### Product Specifications

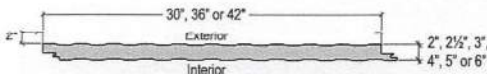
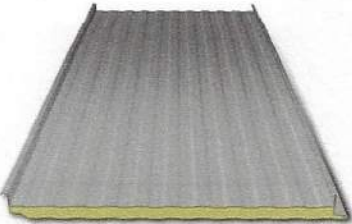
- **Applications:** Roof and Wall
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26, 24, 22
- **Width:** 36"
- **Thicknesses:** 1½", 2", 2½", 3", 4", 5", 6"
- **Length:** 8'-0" to 50'-0"

- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes (wall application only)

Roof Panel

## CFR

CFR is an insulated metal standing seam roof panel and is the newest innovation in all-in-one composite roof panel design, combining durable interior and exterior faces with an unmatched polyurethane core. The CFR panel is a truly unique answer to many deficiencies common with more traditional roofing materials of the past.



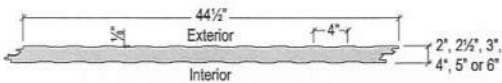
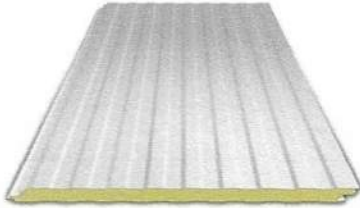
### Product Specifications

- **Applications:** Roof
- **Gauges:** Exterior: 24, 22 | Interior: 26, 24, 22
- **Width:** 42" (standard); 30", 36" (optional)
- **Thicknesses:** 2", 2½", 3", 4", 5", 6"

- **Length:** 9'-6" to 53'-0"
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Galvalume Plus®, Signature® 200, Signature® 300

## CF45 PARTITION WALL

The CF45 Partition Wall panel is the optimal choice for interior partitions. The interior and exterior panel faces are identical images with the same profile for each. This panel is available in a width of 44½", and the profiles have ½" ribs that are four inches on center.

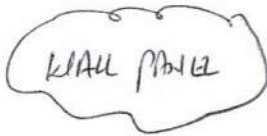


### Product Specifications

- **Applications:** Wall (interior only)
- **Gauge:** 26, 24, 22 (both surfaces)
- **Width:** 44½"
- **Thicknesses:** 2", 2½", 2¾", 3", 4", 5", 6"

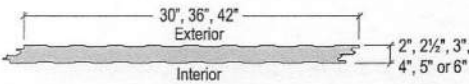
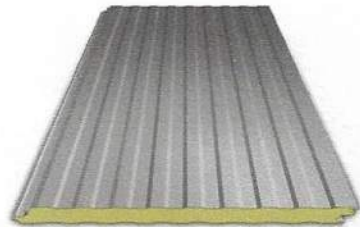
- **Length:** 8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed
- **Panel Attachment:** Tongue-and-Groove with Exposed Fasteners
- **Standard Coating:** Igloo White

\*Available only from Metl-Span's Nevada Plant



## CF MESA

The CF Mesa panel is designed for exterior wall applications, interior wall partitions and interior ceilings. The lightly corrugated profile on both faces of the panel carries symmetry from the building's exterior through its interior, and from room to room in partition installations. This panel is most commonly used for commercial applications.



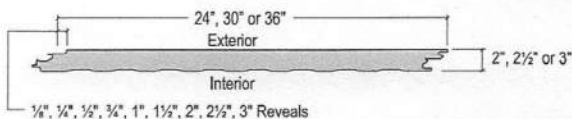
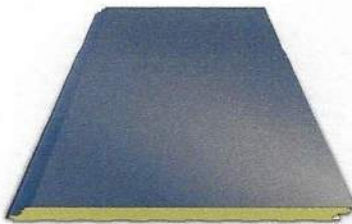
### Product Specifications

- **Application:** Wall (vertical)
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 30", 36", 42"
- **Thicknesses:** 2", 2½", 3", 4", 5", 6"

- **Length:**  
8'-0" to 32'-0" for horizontal embossed  
8'-0" to 16'-0" for horizontal unembossed  
8'-0" to 52'-0" for vertical embossed  
8'-0" to 40'-0" for vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes, Igloo White

## CF ARCHITECTURAL & CF ARCHITECTURAL/HORIZONTAL

The CF Architectural (vertical) and CF Architectural/Horizontal wall panel employs a flat appearance providing a monolithic look that is great for high-profile architectural applications. The panel allows designers to mix multiple panel widths and colors on the same wall. It also allows flexibility for continuous corners along with a complete line of aluminum extrusions and accessories to complete the wall system. When desired, these panels can also be mixed with vertical or horizontal panels to achieve almost any look a design requires, and can be used in vertical or horizontal applications.



### Product Specifications

- **Application:** Wall (vertical and horizontal)
- **Gauges:** Exterior: 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24", 30", 36"
- **Thicknesses:** 2", 2½", 3" (4" available for vertical)
- **Length:** 8'-0" to 32'-0" for embossed  
8'-0" to 16'-0" for unembossed

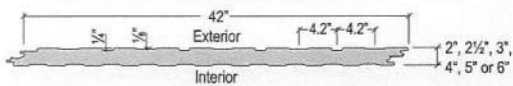
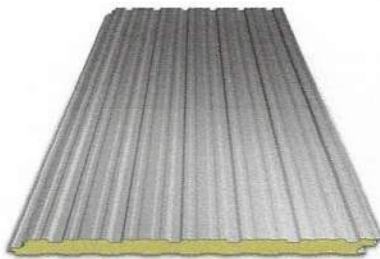
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 300, Signature® 300 Metallic
- **Reveal:** Up to 1" reveal options in ¼" increments or up to 3" reveal options in ½" increments



**PROJECT:** Baker Hughes Research and Technology Center **LOCATION:** Claremore, OK **PANEL PROFILE:** LS-36™ & CF Mesa **COLOR:** Tundra & Limestone

## CF FLUTE

The traditional styling and distinct vertical lines of the CF Flute panel are ideal for custom-designed or conventional building construction, especially commercial and industrial applications, as well as cold storage. The interior skin employs a stucco-embossed Mesa profile.



### Product Specifications

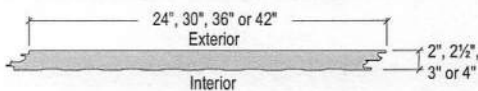
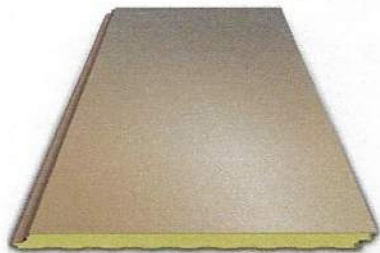
- **Application:** Wall (vertical)
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26 (standard); 24, 22 (optional)
- **Width:** 42"
- **Thicknesses:** 2", 2½", 2¾", 3", 4", 5", 6"

- **Length:** 8'-0" to 32'-0" for horizontal  
8'-0" to 52'-0" for vertical
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic

\*Available only from Metl-Span's Nevada Plant

## SANTA FE®

The Santa Fe® exterior skin has a flat exterior profile with an Aztec-embossed pattern resembling old-world hand plaster. The interior skin employs a stucco-embossed light Mesa profile.



### Product Specifications

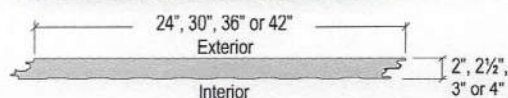
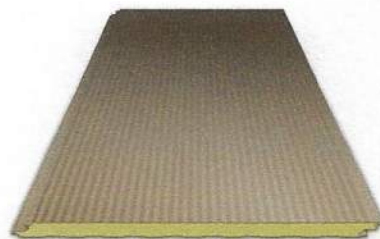
- **Application:** Wall (vertical or horizontal)
- **Gauges:** Exterior: 24, 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24", 30", 36", 42"
- **Thicknesses:** 2", 2½", 2¾", 3", 4"

- **Length:**  
8'-0" to 32'-0" Santa Fe horizontal unembossed  
8'-0" to 40'-0" Santa Fe vertical embossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes
- **Reveal:** Up to 3" reveal options in ¼", ½", ¾" and 1" increments

\*Available only from Metl-Span's Nevada Plant

## STRIATED

The exterior skin of the Striated panel is profiled with minor striations, giving it a flat look and providing a linear appearance while blending with the panel side joints. This panel is an excellent alternative to typical flat wall panels. The interior skin has a stucco-embossed light Mesa profile.



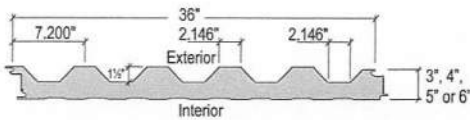
### Product Specifications

- **Application:** Wall (vertical or horizontal)
- **Gauges:** Exterior: 24, 22 | Interior: 26 (standard); 24, 22 (optional)
- **Widths:** 24", 30", 36", 42"
- **Thicknesses:** 2", 2½", 2¾", 3", 4"

- **Length:**  
8'-0" to 32'-0" horizontal embossed  
8'-0" to 16'-0" horizontal unembossed  
8'-0" to 40'-0" for 24", 30" and 36" vertical embossed  
8'-0" to 32'-0" for 42" vertical embossed  
8'-0" to 16'-0" vertical unembossed
- **Panel Attachment:** Concealed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic, Applied Finishes
- **Reveal:** Up to 1" reveal in ¼" increments

## 7.2 INSUL-RIB™

The 7.2 Insul-Rib™ panel combines a traditional 7.2 rib panel design with a premier polyurethane foam core. This panel can be installed both vertically and horizontally, allowing architects the same design flexibility that is available with our single skin 7.2 Panel (page 24).

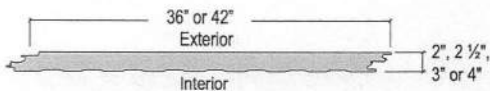
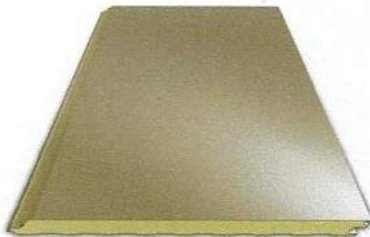


### Product Specifications

- **Application:** Wall (vertical or horizontal)
- **Gauges:** Exterior: 26, 24, 22 | Interior: 26, 24, 22
- **Width:** 36"
- **Thicknesses:** 3", 4", 5", 6"
- **Length:** 8'-0" to 32'-0" for horizontal  
8'-0" to 40'-0" for vertical
- **Panel Attachment:** Offset double tongue-and-groove with extended metal shelf for positive concealed face fastening
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic

## TUFF WALL® / TUFF-CAST™

The Tuff Wall® and Tuff-Cast™ panels are designed for exterior applications where an aggregate look is preferred. The exterior skin of the panel is embossed flat, while the interior skin has the embossed light Mesa profile. Tuff Wall® has a finish similar to stucco, providing the masonry look many designers and communities desire. The Tuff-Cast™ exterior is finished with look of precast concrete.



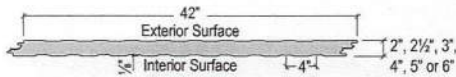
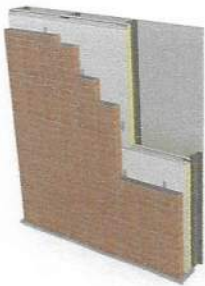
### Product Specifications

- **Application:** Wall (vertical and horizontal)
  - **Gauges:** Exterior: 24, 22 | Interior: 26, 24, 22
  - **Widths:** 36", 42"
  - **Thicknesses:** 2", 2½", 3", 4", 5", 6"\*
  - **Length:** 8'-0" to 32'-0" for horizontal textured  
8'-0" to 40'-0" for vertical textured
  - **Panel Attachment:** Concealed Fastening System
  - **Standard Coatings:** Applied Finishes only
- \*5" and 6" CF Tuff-Cast and Tuff Wall available with Mesa, nominal 1/8" deep profile only



PROJECT: Fallon Ambulance LOCATION: Quincey, MA PANEL PROFILE: Striated COLOR: Fallon Blue, Regal Gray, Polar White

## HPCI BARRIER™

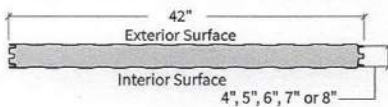


The HPCI Barrier™ insulated metal panel is an air, water, thermal and vapor barrier panel that can be used behind any type of façade. This back-up panel may be installed in a horizontal or vertical orientation completely outside the structural supports. There are no thermal bridges to reduce the energy efficiency of the wall. HPCI Barrier™ is quick and easy to install and provides an economical solution to conventional air, water, thermal and vapor control without sacrificing thermal efficiency. This panel must be separated from the interior of the building by an approved thermal barrier of .5" (12.7 mm) gypsum wallboard to meet IBC requirements.

### Product Specifications

- **Application:** Wall (vertical or horizontal)
- **Exterior and Interior Gauges:** 26
- **Width:** 42"
- **Thicknesses:** 2", 2½", 3", 4", 5" and 6"
- **Length:** 8'-0" to 32'-0" horizontal  
8'-0" to 52'-0" vertical
- **Insulation Material:** Zero ozone depleting polyurethane
- **Panel Attachment:** Tongue-and-Groove, Concealed Fastener
- **Standard Coating:** Signature® 200 Igloo White (straight polyester)

## THERMALSAFE®



The ThermalSafe® panel consists of metal facings bonded to a structural mineral wool core to create a composite panel that achieves fire resistance ratings under the most demanding conditions. Unlike traditional wall materials, ThermalSafe® offers a level of flexibility architects, contractors and building owners won't find in any other product in the U.S. The mineral wool panel is rated for its one-, two- and three-hour fire resistance qualities and provides satisfactory thermal performance and protection from the elements. The R-value of this panel is 3.61 per inch of insulation.

### Fire Resistant Data

- The finished panel in four-inch thickness for one-hour, seven-inch thickness for two-hour and eight-inch thickness for three-hour Fire Resistant ratings for nonbearing walls in accordance with UL 263 Fire Endurance tests and ASTM E119 tests
- For more complete Fire Resistant rating data, including Fire Resistant ratings for pipe penetrations both metallic and non-metallic, ducts and fire door and window assembly design installed in an ThermalSafe® wall, go to [www.mbc.com](http://www.mbc.com) or [shop.mbc.com](http://shop.mbc.com) and follow links to Fire Resistant approvals data.
- Wall-framing support members and adjacent construction may require fire protection as specified by applicable building code. The customer is responsible for specifying the appropriate fire protection of these areas.

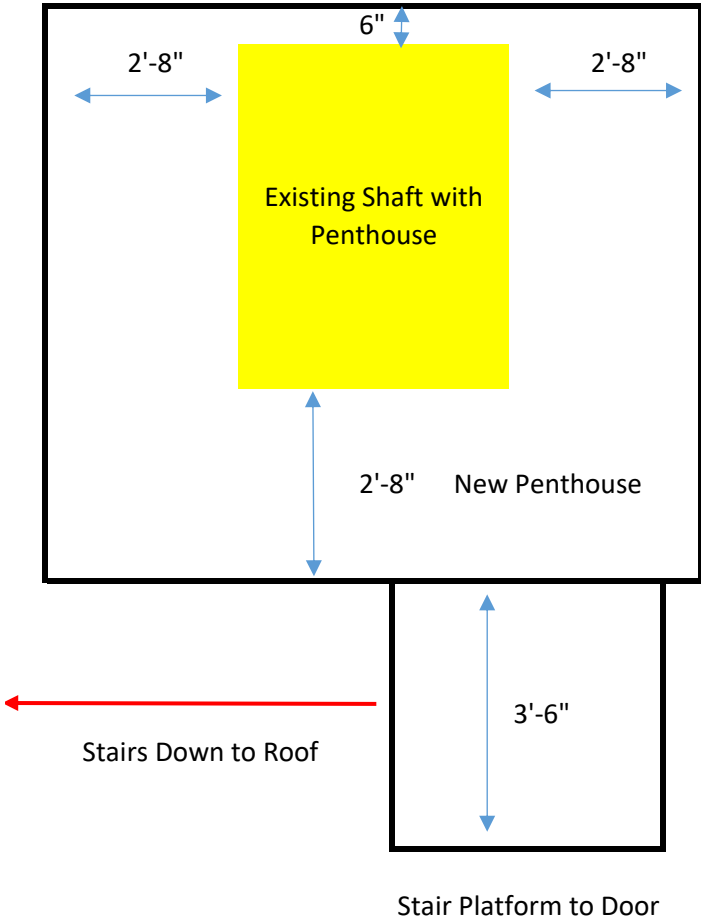
### Features & Benefits

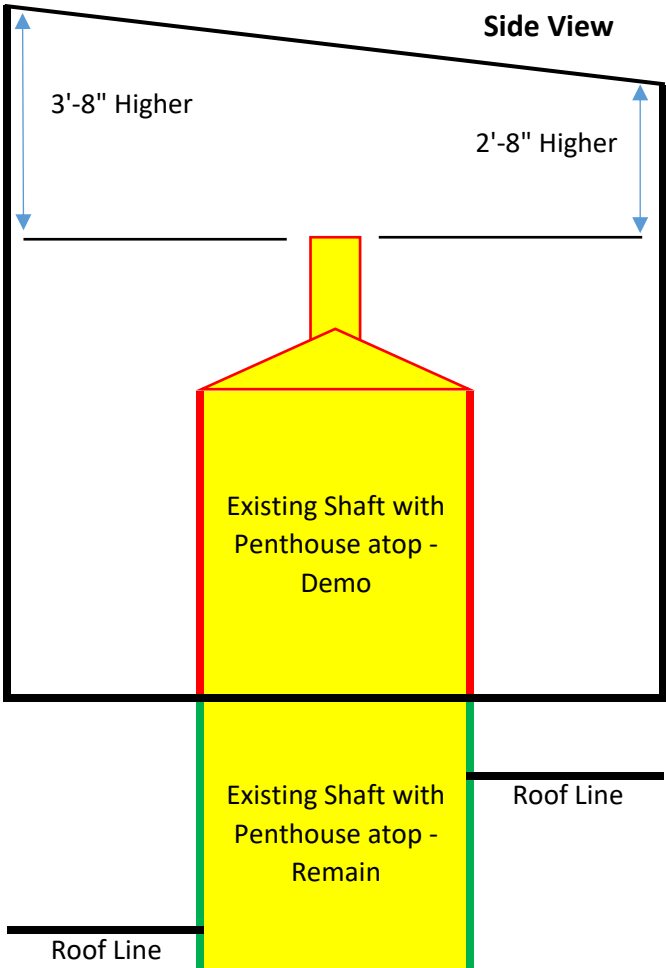
- Resists high temperatures and will not burn because of mineral wool core
- Can be disassembled, moved and reinstalled rather than having to be demolished, waste materials disposed of and the walls completely rebuilt
- Our exclusive integral spline design eliminates labor to install a separate cement board spline at side joint of panels to maintain the fire rating
- Good sound reduction acoustic properties because of mineral wool
- Dimensionally stable, water repellent and will not expand
- Can be combined with other MBCI panels for an aesthetically consistent profile facing, texture and color

### Product Specifications

- **Application:** Wall (vertical or horizontal)
- **Gauges:** Exterior: 26, 24 | Interior: 26, 24
- **Width:** 42"
- **Thicknesses:** 3", 4", 5", 6", 7" and 8"
- **Length:** 8'-0" to 40'-0", variable by thickness
- **Panel Attachment:** Exposed Fastening System
- **Standard Coatings:** Signature® 200, Signature® 300, Signature® 300 Metallic

# Top View







# ELEVATOR PENTHOUSE RENOVATION

## 66 ADELAIDE

DETROIT, MICHIGAN

**OWNER:**  
AMO APARTMENTS LLC  
114 GROSSE POINTE BLVD.  
GROSSE POINTE FARMS, MI 48236

**ARCHITECTS & PLANNERS:**  
WAH YEE ASSOCIATES  
42400 GRAND RIVER AVENUE  
SUITE 200  
NOVI, MI 48375

**STRUCTURAL ENGINEERS:**  
SHYMANSKI & ASSOCIATES  
33426 FIVE MILE ROAD  
LIVONIA, MI 48154

**CONTRACTOR:**  
E&L CONSTRUCTION GROUP  
3040 AIRPARK DRIVE SOUTH  
FLINT, MI 48507

### INDEX OF DRAWINGS

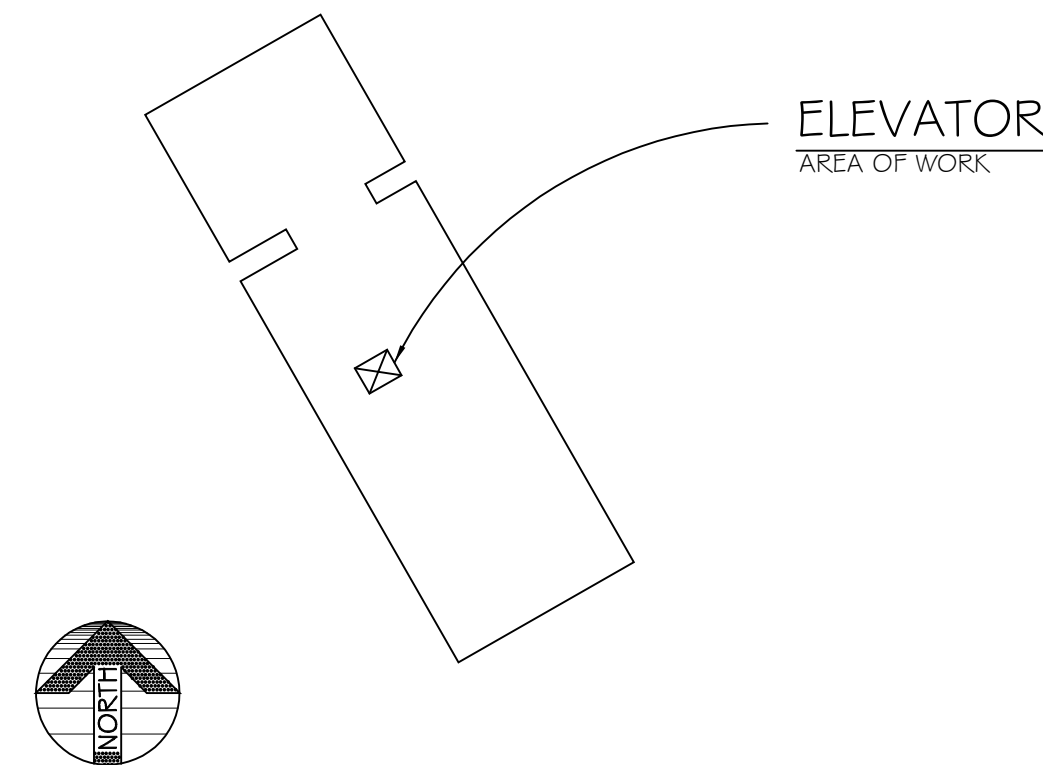
#### ARCHITECTURAL

AO.1	TITLE SHEET
A2.1	PLANS, ELEVATIONS AND DETAILS
A2.2	SECTION AND DETAILS
SP1.0	SPECIFICATIONS
SP2.0	SPECIFICATIONS
SP3.0	SPECIFICATIONS

#### STRUCTURAL

S2.1	ROOF FRAMING PLAN
S3.0	GENERAL NOTES

### LOCATION MAP



### CODE COMPLIANCE

- OCCUPANCY CLASSIFICATION:  
R2 - APARTMENT
- TYPE OF CONSTRUCTION FOR ELEVATOR PENTHOUSE:  
2B - NON-COMBUSTIBLE
- CODES:  
2015 MICHIGAN BUILDING CODE  
2015 MICHIGAN PLUMBING CODE  
2015 MICHIGAN MECHANICAL CODE  
2015 REHABILITATION CODE  
2015 INTERNATIONAL FIRE CODE  
2015 INTERNATIONAL FUEL GAS CODE  
MICHIGAN ELECTRICAL CODE BASED ON 2017 N.E.C. WITH PART 8 STATE AMENDMENTS  
MICHIGAN ELEVATOR AND ESCALATOR CODE

### PROJECT DESCRIPTION

REPLACE EXISTING ELEVATOR, RENOVATE ELEVATOR PENTHOUSE TO ACCOMMODATE THE NEW ELEVATOR EQUIPMENT, MODIFY ELEVATOR PIT AND REPLACE ELEVATOR WOOD JAMBS AS REQUIRED FOR NEW ELEVATOR CALL BUTTONS AND INDICATORS.

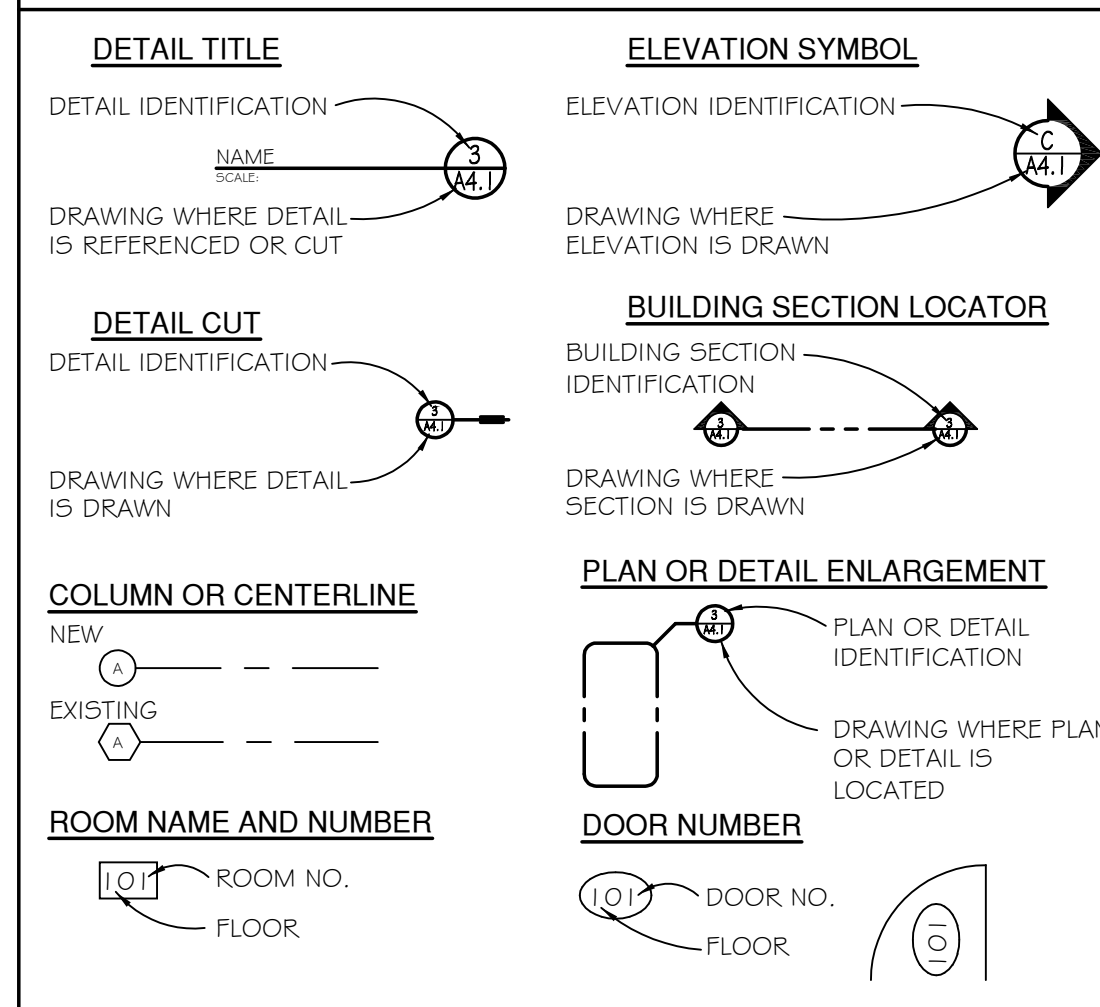
### GENERAL DEMOLITION NOTES

- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR PROPOSAL TO BECOME FAMILIAR WITH ALL EXISTING FIELD CONDITIONS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES TO SAFEGUARD AGAINST THE INTERRUPTION OF SERVICES TO THE OWNER OR TENANTS.
- REMOVE ALL UNUSED ELECTRICAL WIRING, CONDUITS, WATER PIPING, VENTS, ETC.
- IT IS THE INTENT THAT ALL EXISTING WORK INTERFERING WITH THE INSTALLATION OF NEW WORK BE REMOVED AS REQUIRED.
- DEMOLITION WORK SHALL NOT INTERFERE WITH ACCESS TO INDIVIDUAL TENANT SPACES. DEMOLITION CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION MEASURES TO SAFEGUARD THE PUBLIC DURING CONSTRUCTION ACTIVITIES.
- DEMOLITION CONTRACTOR SHALL NOT USE ANY CONSTRUCTION METHODS THAT WILL CAUSE DAMAGE TO WORK TO BE LEFT IN PLACE.
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS TO THE EXTENT OF DEMOLITION WORK TO BE PERFORMED.
- WHILE EVERY ATTEMPT HAS BEEN MADE TO SHOW ALL ITEMS TO BE REMOVED, IT IS THE RESPONSIBILITY OF THE VARIOUS CONTRACTORS TO CONDUCT ON-SITE EXAMINATIONS AND FAMILIARIZE THEMSELVES WITH ACTUAL SITE CONDITIONS. ADDITIONAL ITEMS, NOT SHOWN TO BE REMOVED, INTERFERING WITH NEW CONSTRUCTION WORK, SHALL BE REMOVED WITHOUT ADDITIONAL COST TO THE OWNER.
- CARE SHALL BE EXERCISED IN THE REMOVAL OF WORK TO PREVENT THE RELEASE OF TOXIC SUBSTANCES. SHOULD TOXIC SUBSTANCES, SUCH AS ASBESTOS BE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND UPON AUTHORIZATION THE DISPOSAL OF SAME SHALL CONFORM TO ALL GOVERNING CODES AND REGULATIONS. DISPOSAL SHALL BE DONE ONLY BY CONTRACTORS LICENSED FOR THIS WORK.
- DURING DEMOLITION AND CONSTRUCTION OPERATIONS PROVIDE ALL NECESSARY PROTECTION AND SAFE PASSAGE FOR THE PUBLIC, SUCH AS, BUT NOT LIMITED TO, BARRICADES, TEMPORARY PARTITIONS, DUST BARRIERS, SIGNS, ETC. ERECT AND MAINTAIN THESE BARRIERS TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE RULES AND REGULATIONS.
- IF ANY EXISTING CONSTRUCTION THAT IS TO BE LEFT IN PLACE OR NOT SPECIFICALLY NOTED FOR REMOVAL IS DAMAGED DURING DEMOLITION OR NEW CONSTRUCTION WORK, IT SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE CONSTRUCTION TIMING, MOVEMENT OF CONSTRUCTION MATERIALS AND STORAGE OF REFUSE CONTAINERS WITH THE OWNER.
- COORDINATE ARCHITECTURAL DEMOLITION WORK WITH THAT OF THE MECHANICAL, ELECTRICAL TRADES AND DRAWINGS. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCING WORK.

### ABBREVIATIONS

ADJ. - ADJUSTABLE	E.G. - EXTERIOR GRADE	I.D. - INSIDE DIAMETER	PREFAB - PREFABRICATED
A.F.F. - ABOVE FINISH FLOOR	EL. - ELEVATION	INSUL. - INSULATION	PREFIN. - PREFINISHED
AGG. - AGGREGATE	ELEC. - ELECTRICAL	INT. - INTERIOR	REIN. - REINFORCE
ALT. - ALTERNATE	E.J. - EXPANSION JOINT	JT. - JOINT	RM. - ROOM
ALUM. - ALUMINUM	EWC. - ELECTRIC WATER COOLER	LAM. - LAMINATE	R.O. - ROUGH OPENING
ANOD. - ANODIZED	ELEV. - ELEVATION	LAV. - LAVATORY	R.S. - ROOF SUMP
BD. - BOARD	EQ. - EQUAL	L.G. - LONG	SHT. - SHEET
BLDG. - BUILDING	EQUIP. - EQUIPMENT	L.P. - LOW POINT	SIM. - SIMILAR
B.O.S. - BOTTOM OF STEEL	EXH. - EXHAUST	MANUF. - MANUFACTURER	SPEC. - SPECIFICATION
BOTT. - BOTTOM	EXIST. - EXISTING	MAS. - MASONRY	SQ. - SQUARE
BRG. - BEARING	EXPAN. - EXPANSION	M.O. - MASONRY OPENING	STL. - STEEL
BTWN. - BETWEEN	EXT. - EXTERIOR	MAT. - MATERIAL	STRUCT. - STRUCTURAL
CLG. - CEILING	FIN. - FINISH	MAX. - MAXIMUM	SUSP. - SUSPENDED
C.O. - CLEAN-OUT	F.F. - FINISH FLOOR	M.C.J. - MASONRY CONTROL JOINT	SYN. - SYMMETRICAL
COL. - COLUMN	F.E. - FIRE EXTINGUISHER	MECH. - MECHANICAL	SYN. - SYNTHETIC
CONC. - CONCRETE	FR. - FRAME	M.I.C. - MISCELLANEOUS	SYS. - SYSTEM
CONSTR. - CONSTRUCTION	FRT. - FIRE-RETARDANT	IRON CONTRACTOR	THK. - THICKNESS
CONT. - CONTINUOUS	FLR. - FLOOR	MIN. - MINIMUM	T & G - TONGUE & GROOVE
CONTR. - CONTRACTOR	F.D. - FLOOR DRAIN	MISC. - MISCELLANEOUS	T.O.P. - TOP OF PARAPET
C.J. - CONTROL JOINT	FURN. - FURNISHED	MTD. - MOUNTED	T.O.S. - TOP OF STEEL
CORR. - CORRIDOR	GA. - GAUGE	N.O. - NOT IN CONTRACT	(UNDERSIDE METAL DECK)
CTSK. - COUNTERSUNK SCREW	GALV. - GALVANIZED	N.T.S. - NOT TO SCALE	UR. - URINAL
DET. - DETAIL	GEN. - GENERAL	O.C. - ON CENTER	VERT. - VERTICAL
DIA. - DIAMETER	GYP. - GYPSUM	O.H. - OPPOSITE HAND	V.I.F. - VERIFY IN FIELD
DIM. - DIMENSION	H.B. - HOSE BIBB	OPNG. - OPENING	W. - WITH
DR. - DOOR	HDW. - HARDWARE	OPP. - OPPOSITE	W.C. - WATER CLOSET
D.S. - DOWNSPOUT	H.P. - HIGH POINT	O.D. - OUTSIDE DIAMETER	WWF - WELDED WIRE FABRIC
D.F. - DRINKING FOUNTAIN	HVAC - HEATING / VENTILATING / AIR CONDITIONING	PL. - PLATE	W. - WIDE
DWG. - DRAWING	HT. - HEIGHT	PR. - PAIR	WD. - WOOD
DWL. - DWEL	H.M. - HOLLOW METAL		
	HORIZ. - HORIZONTAL		

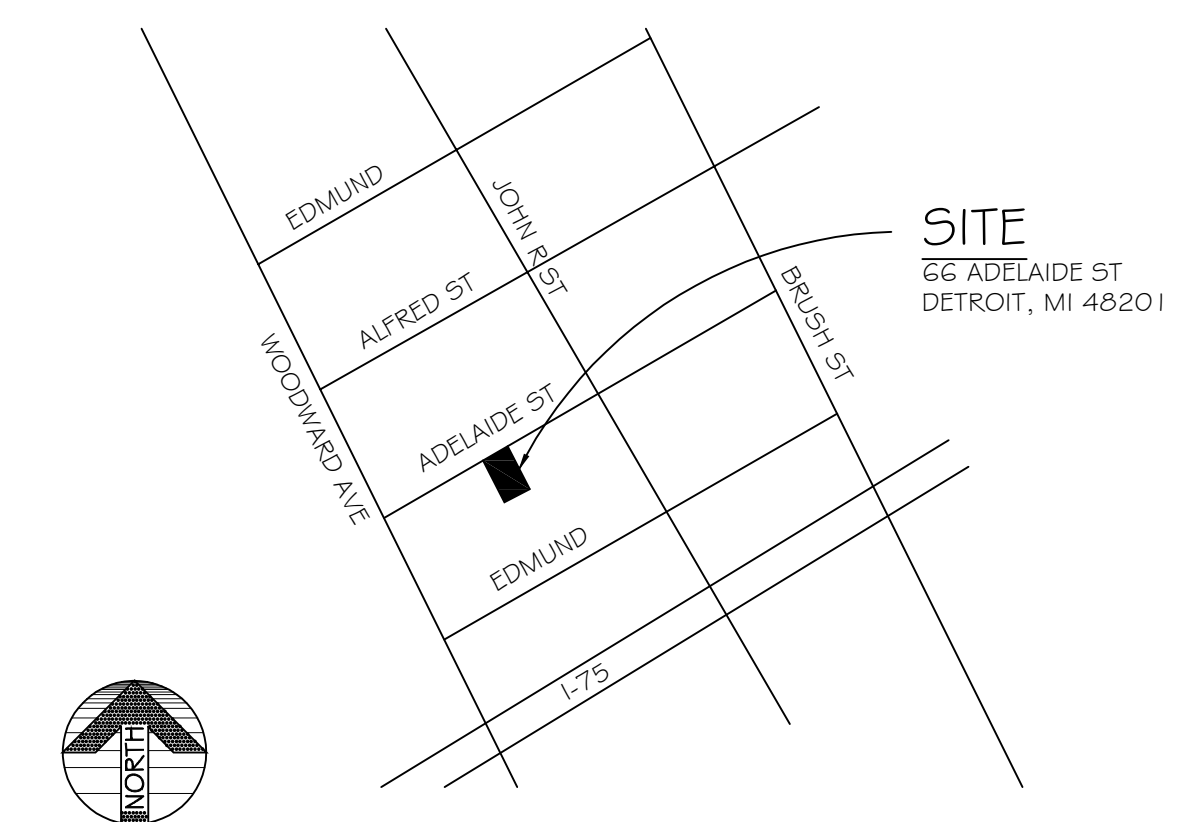
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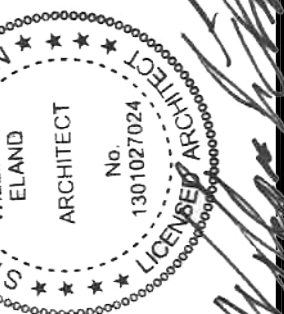
### GENERAL NOTES

- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING HIS PROPOSAL TO BECOME FAMILIAR WITH ALL EXISTING FIELD CONDITIONS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES TO SAFEGUARD AGAINST THE INTERRUPTION OF SERVICES TO THE OWNER OR TENANTS.
- ALL WOOD MEMBERS, PLYWOOD, STUDS, BLOCKING, ETC. TO BE FIRE RETARDANT TREATED WITH U.L. LABEL - SEE SPECIFICATIONS.
- PROHIBITED SUSPENSION OF MATERIALS FROM METAL OR WOOD DECK: SUSPENSION OF ANY MATERIAL OR EQUIPMENT FROM METAL OR WOOD DECK IS STRICTLY PROHIBITED. ITEMS NOT ALLOWED TO BE ATTACHED TO OR SUSPENDED FROM THE METAL OR WOOD DECK INCLUDE BUT ARE NOT LIMITED TO MECHANICAL OR ELECTRICAL EQUIPMENT, DUCTS, PIPING, LIGHT FIXTURES, OR OTHER DECORATIVE STRUCTURES.
- PROVIDE PORTABLE FIRE EXTINGUISHERS DURING CONSTRUCTION IN ACCORDANCE OF LOCAL AUTHORITIES.
- DEFERRED SUBMITTAL ITEMS:  
THE FOLLOWING SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIALS.  
1. STRUCTURAL STEEL SHOP DRAWINGS.  
2. SPECIAL INSPECTION REPORTS.

### VICINITY MAP



Wah Yee Associates  
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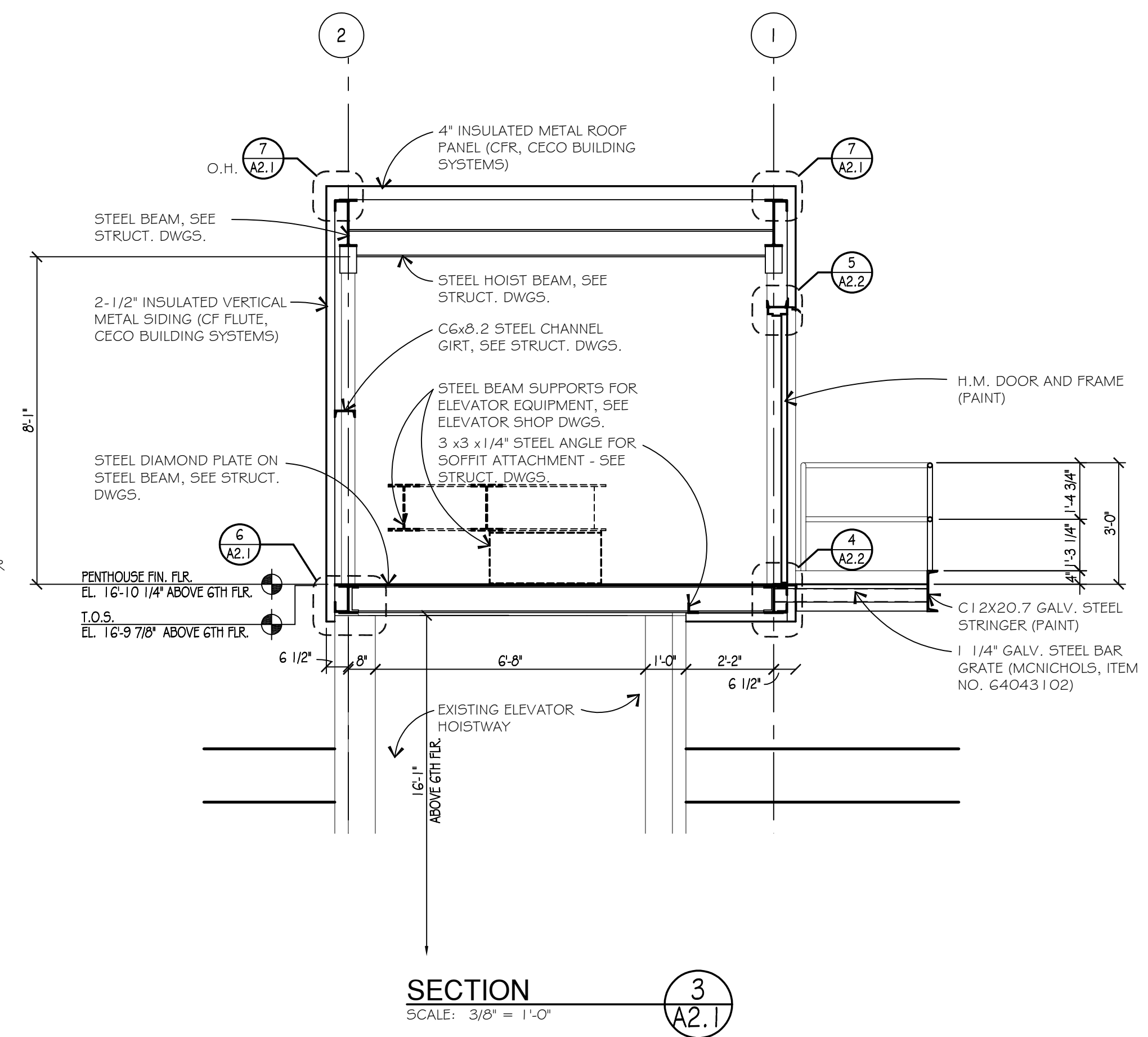
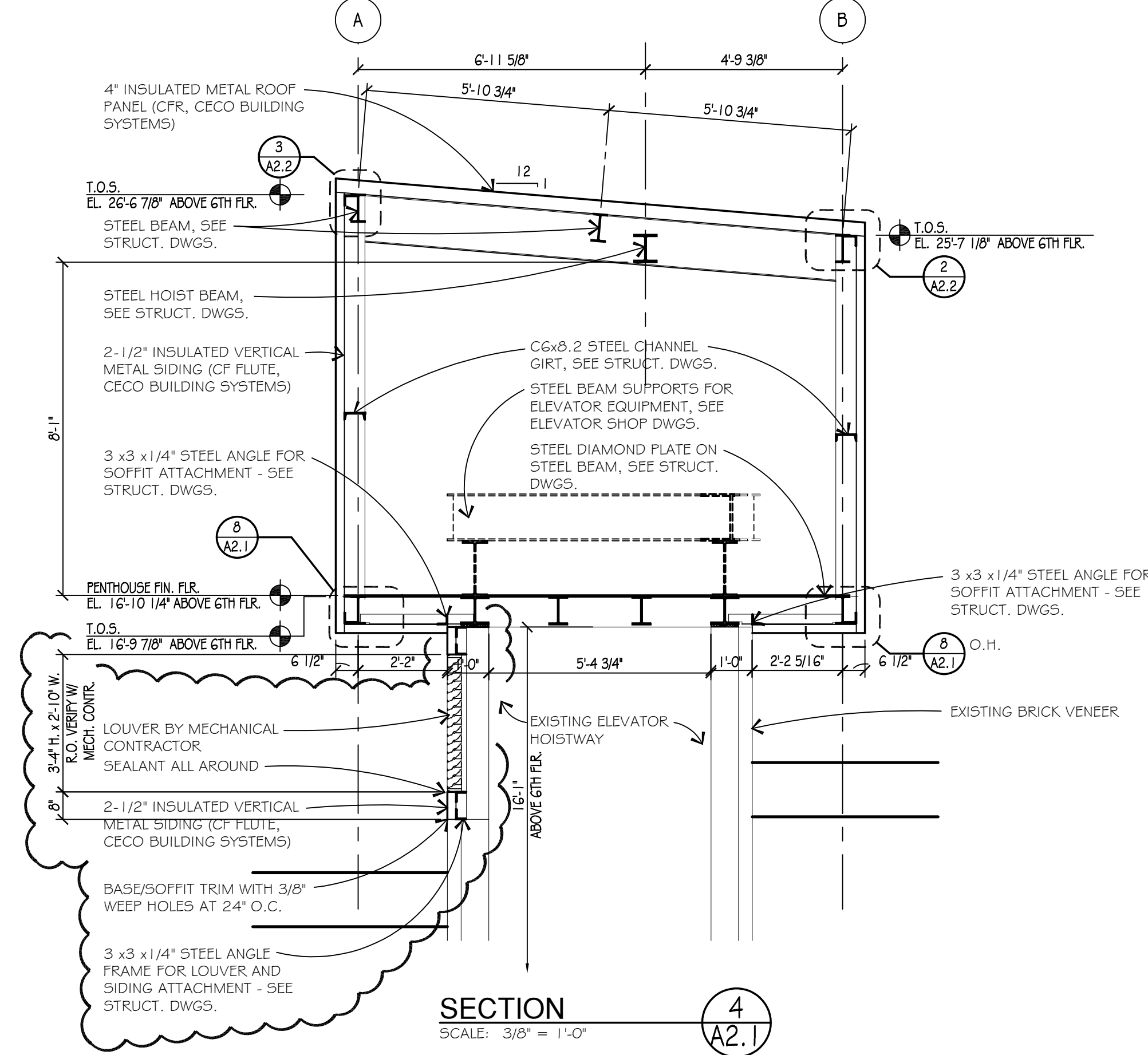
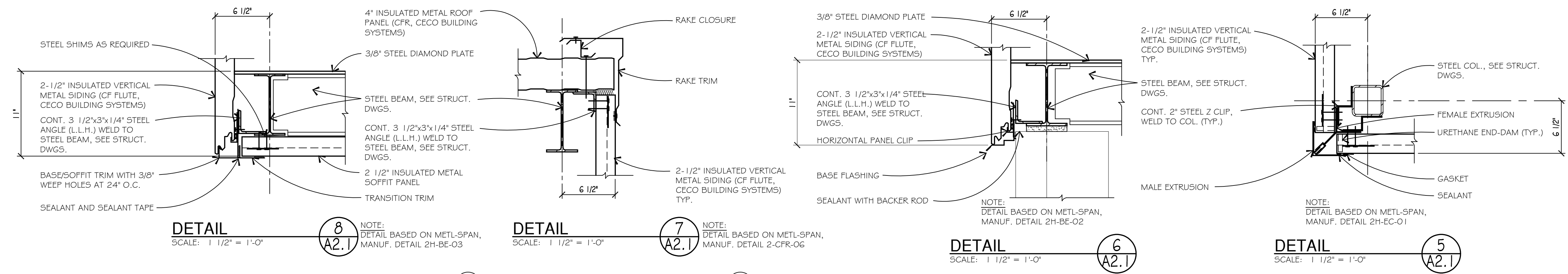


PROJECT  
ELEVATOR PENTHOUSE RENOVATION  
66 ADELAIDE  
DETROIT, MI

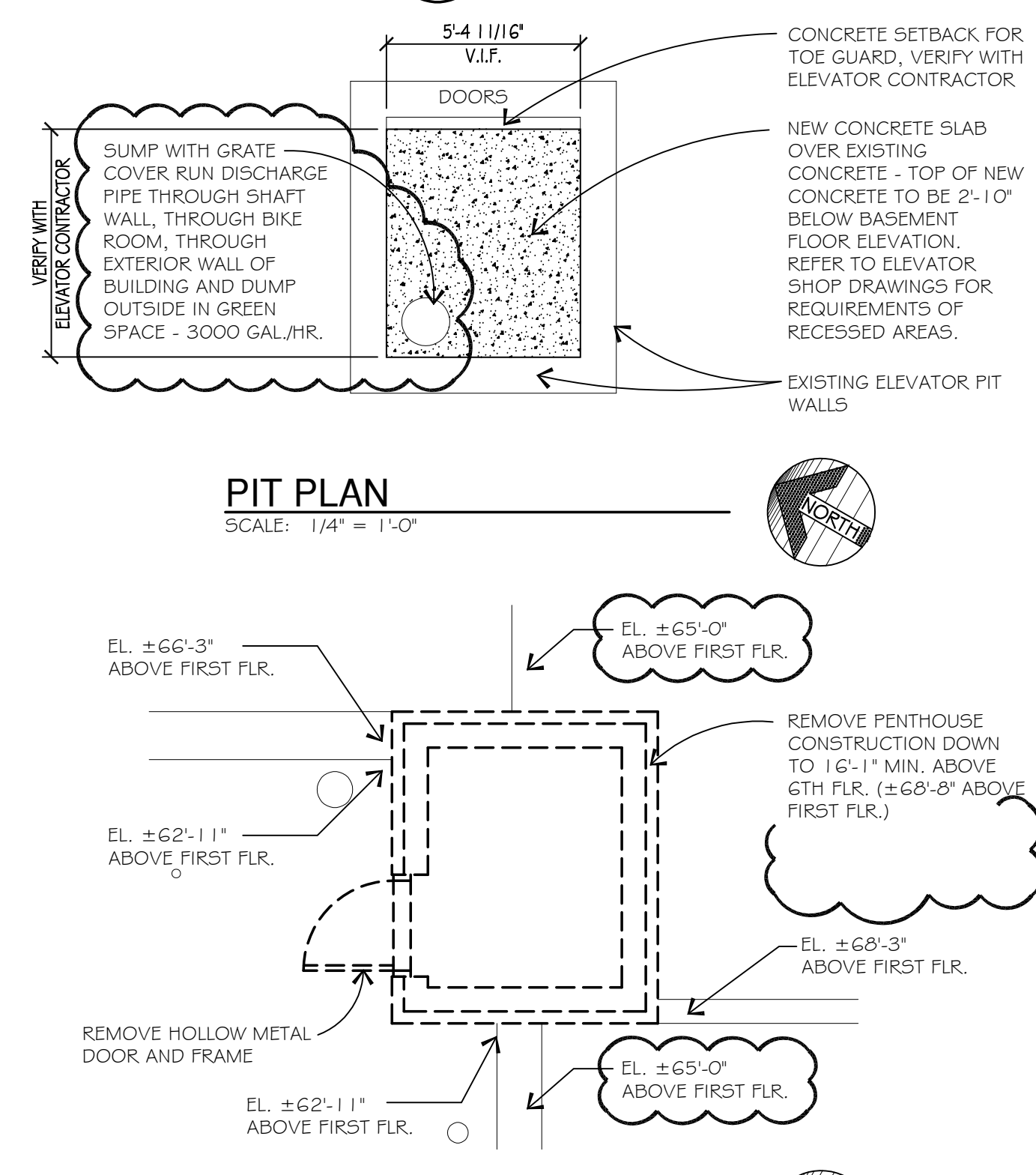
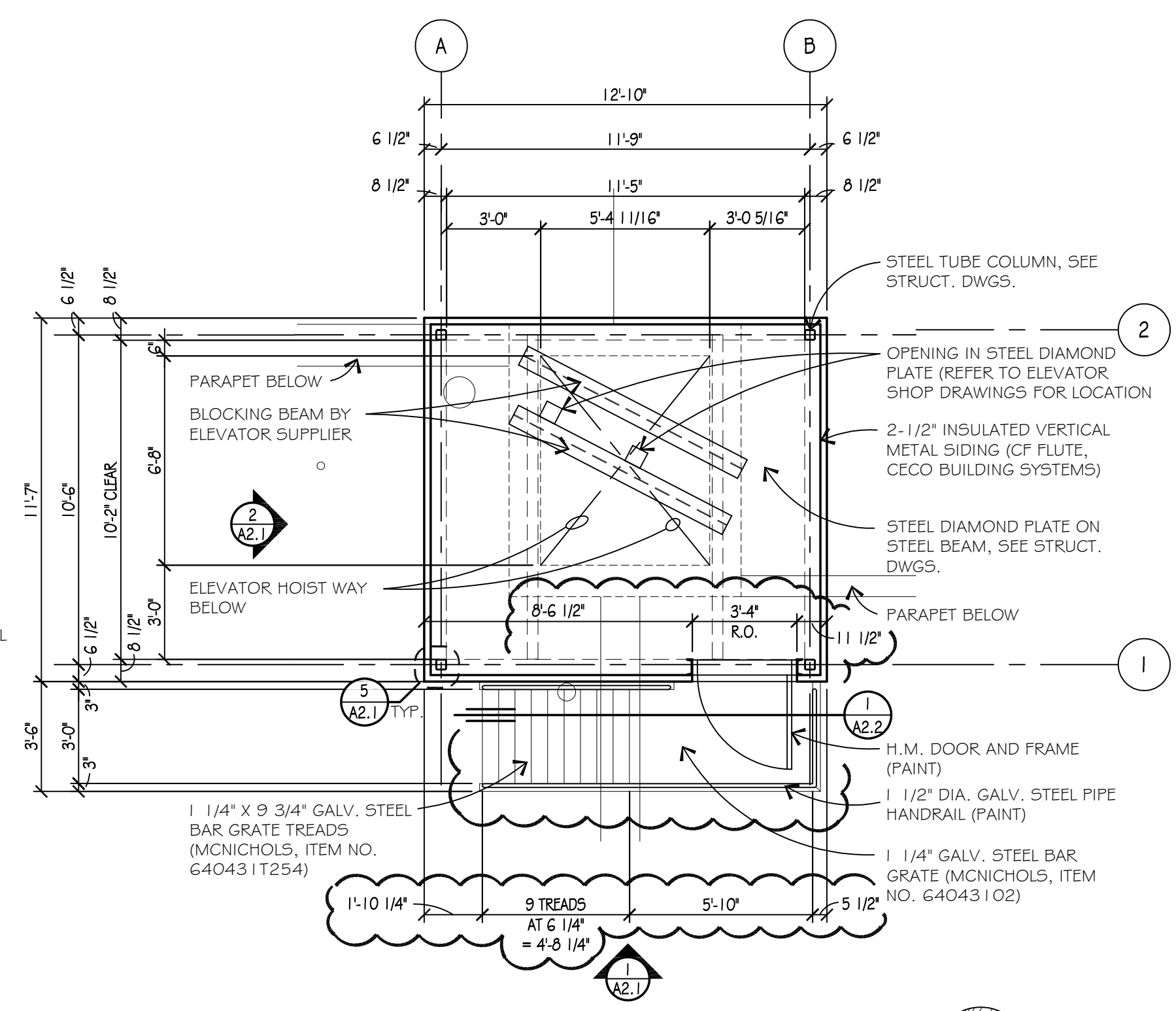
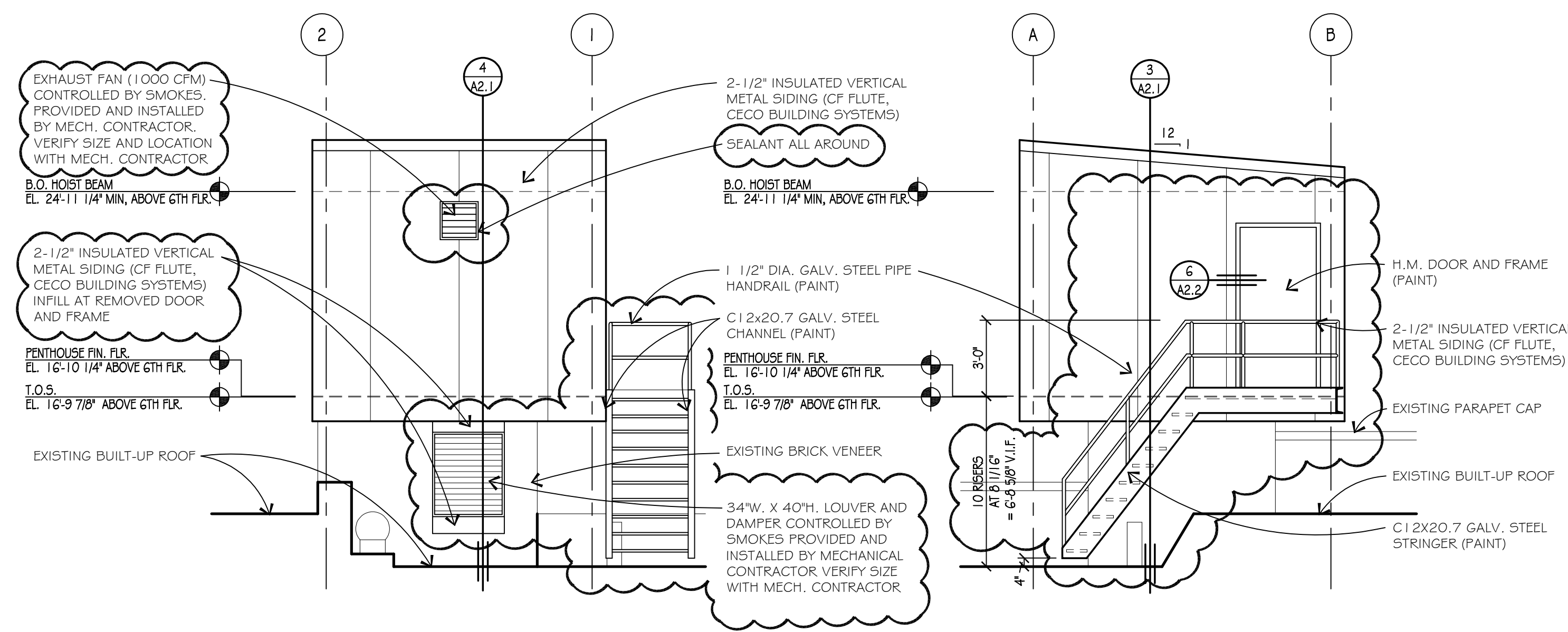
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Bids & Permit 12/23/2020  
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5122  
SHEET TITLE  
TITLE SHEET

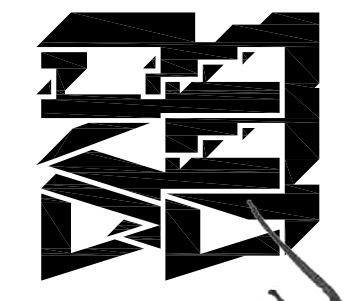
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A0.1



CORRIDOR SIDE  
REMOVE EXISTING WOOD ELEVATOR DOOR TRIM (BOTH SIDES AND TOP) TYPICAL FOR ALL FLOORS AND REPLACE WITH WIDER TRIM BOARD TO MATCH EXISTING - VERIFY NEW WIDTH REQUIREMENTS WITH ELEVATOR CONTRACTOR



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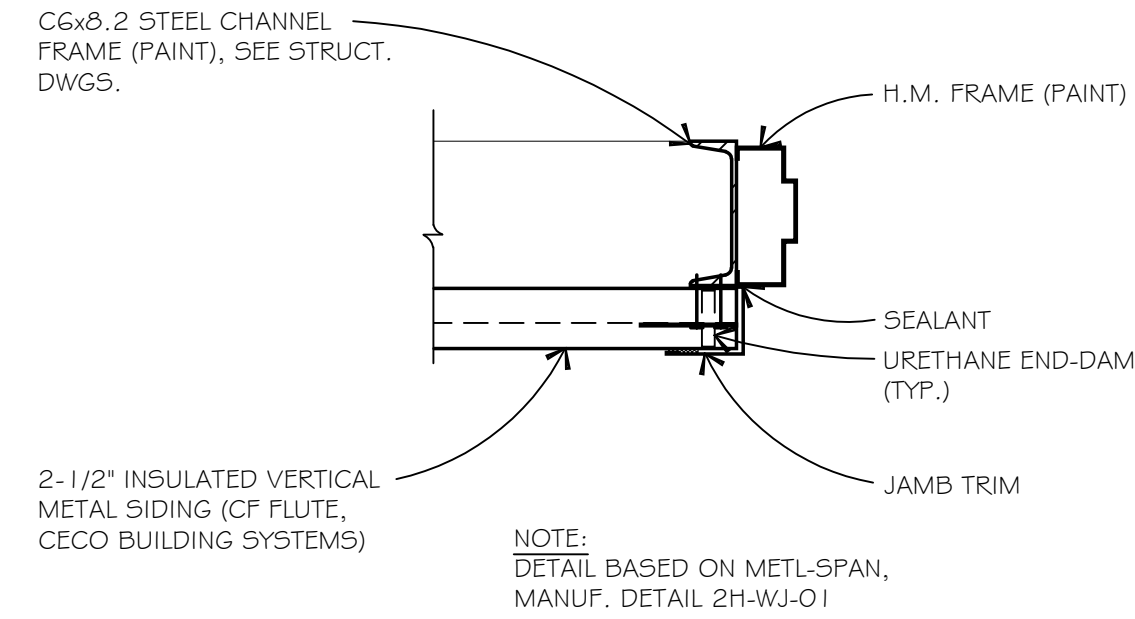
STATE OF MICHIGAN  
WILLIAM J. DELANEY  
ARCHITECT  
NO. 138708A  
EXPIRES 12/31/2021

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**ELEVATOR PENTHOUSE RENOVATION**  
**66 ADELAIDE**  
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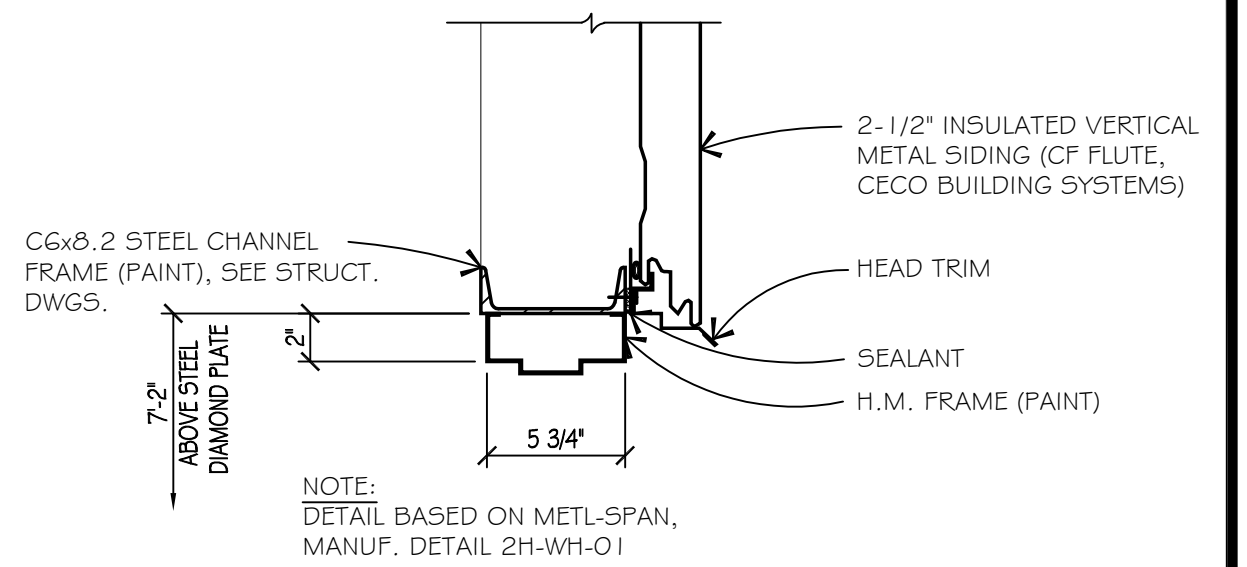
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SHEET TITLE  
**ELEVATIONS AND DETAILS**  
Sheet Number  
**A2.1**

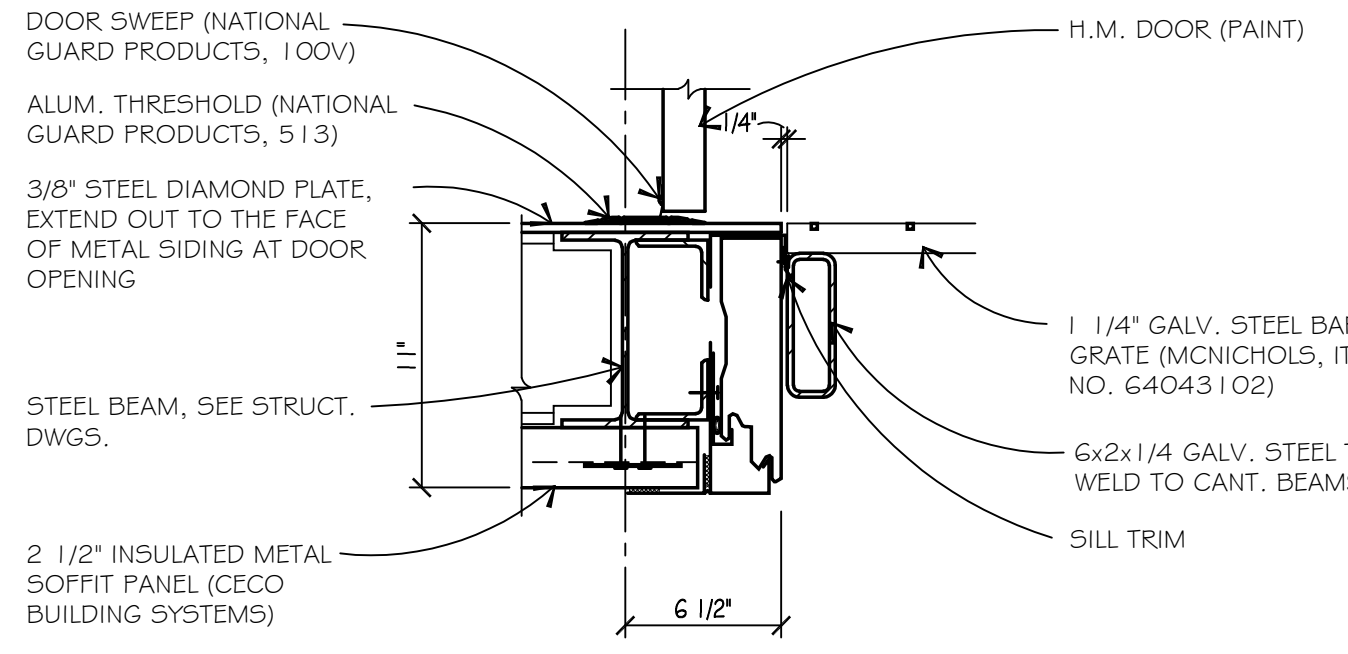
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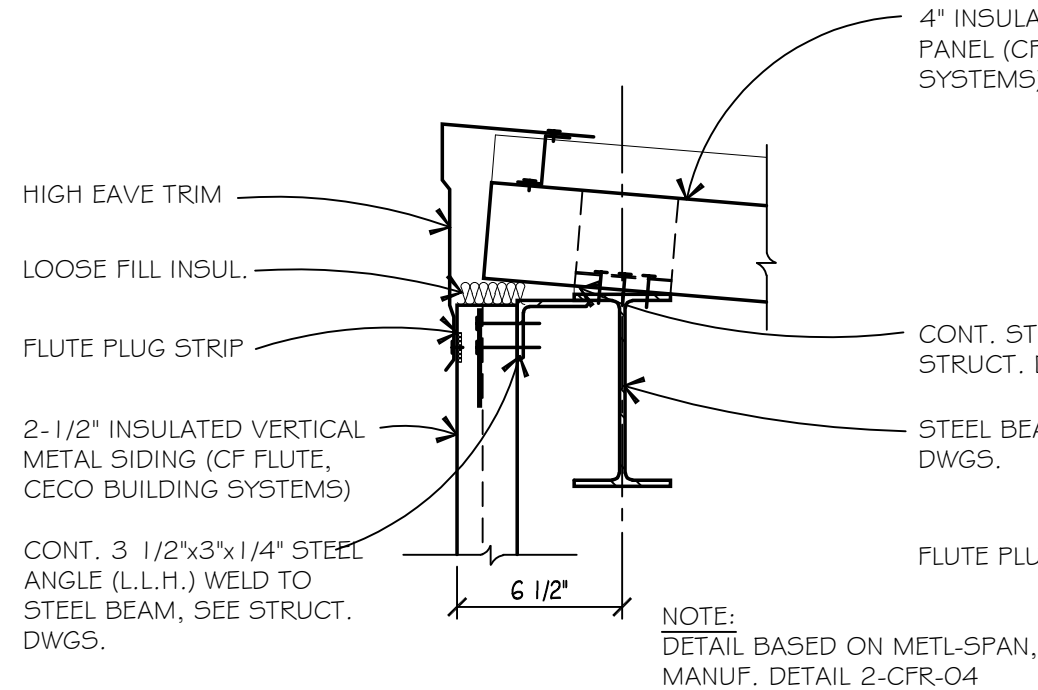
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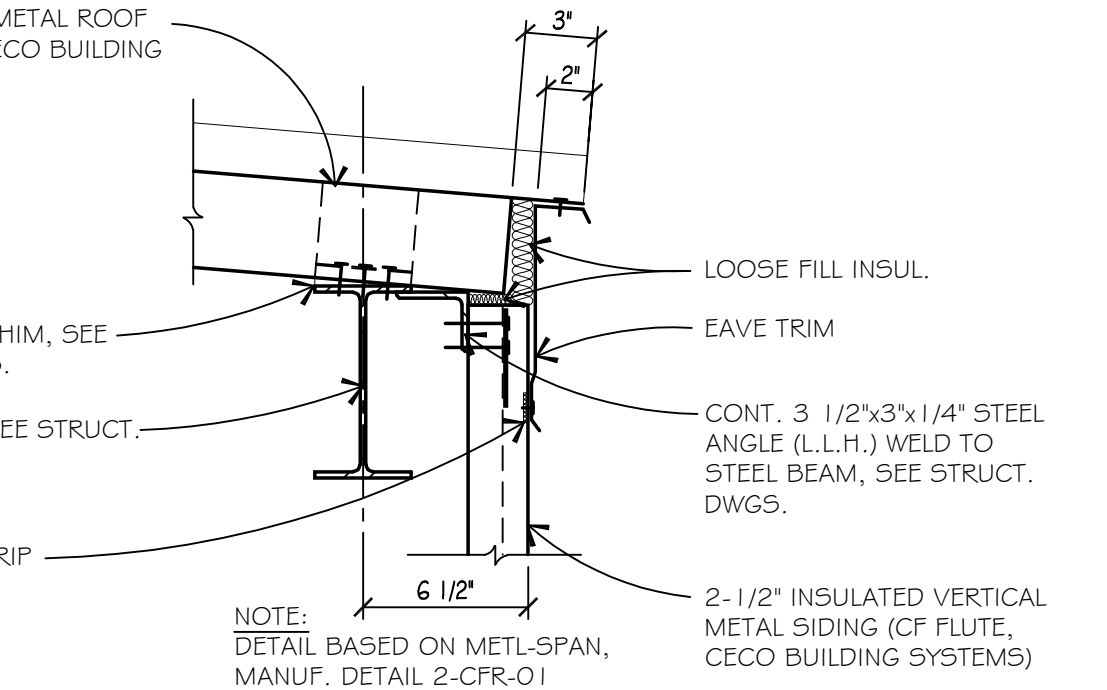
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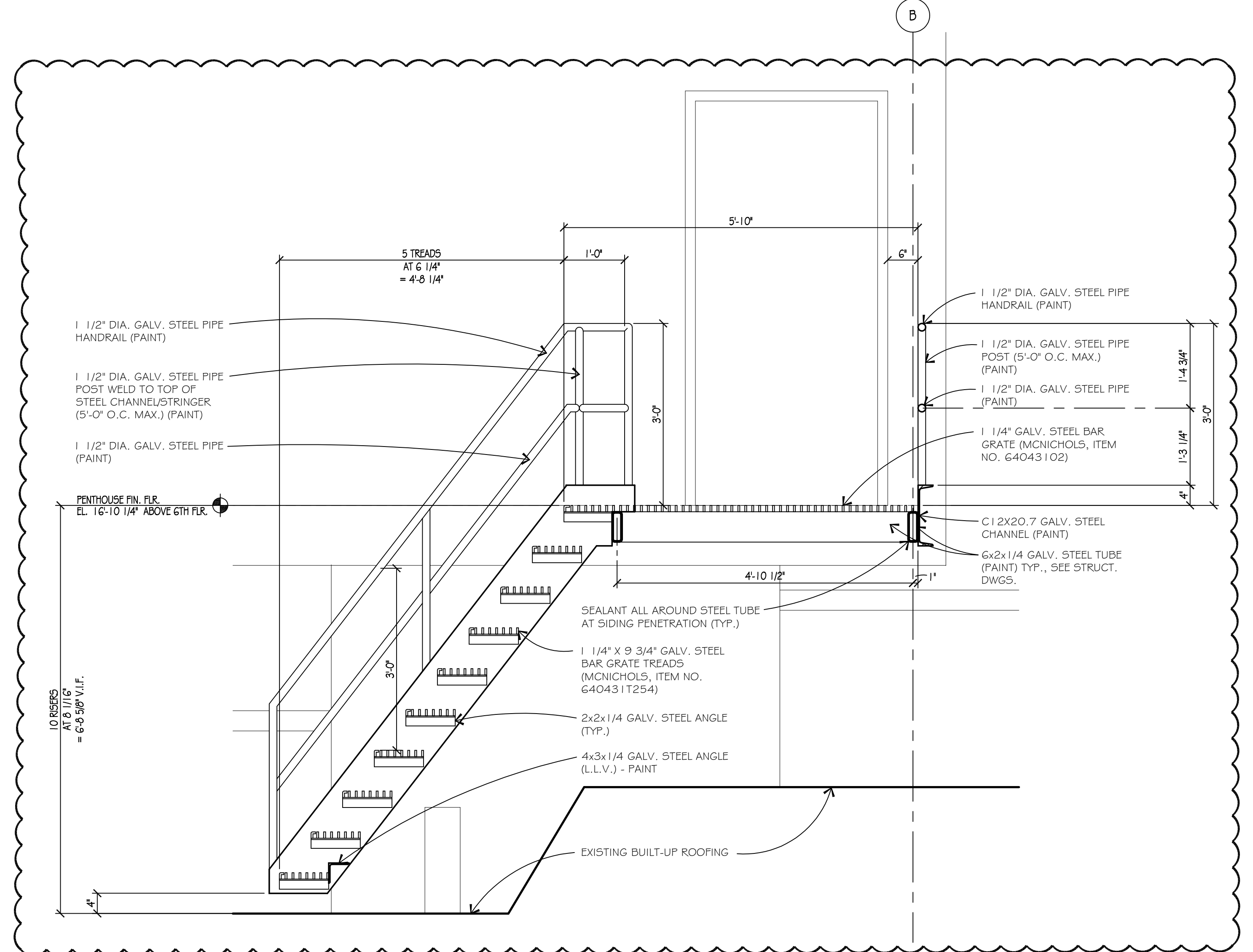
**SILL DETAIL 4**  
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A2.1



**DETAIL 3**  
SCALE: 1 1/2" = 1'-0"  
A2.1

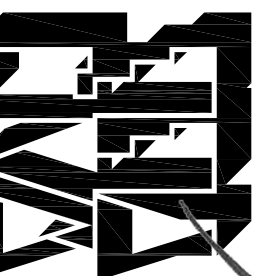


**DETAIL 2**  
SCALE: 1 1/2" = 1'-0"  
A2.1



**STAIR SECTION 1**  
SCALE: 3/4" = 1'-0"  
A2.1

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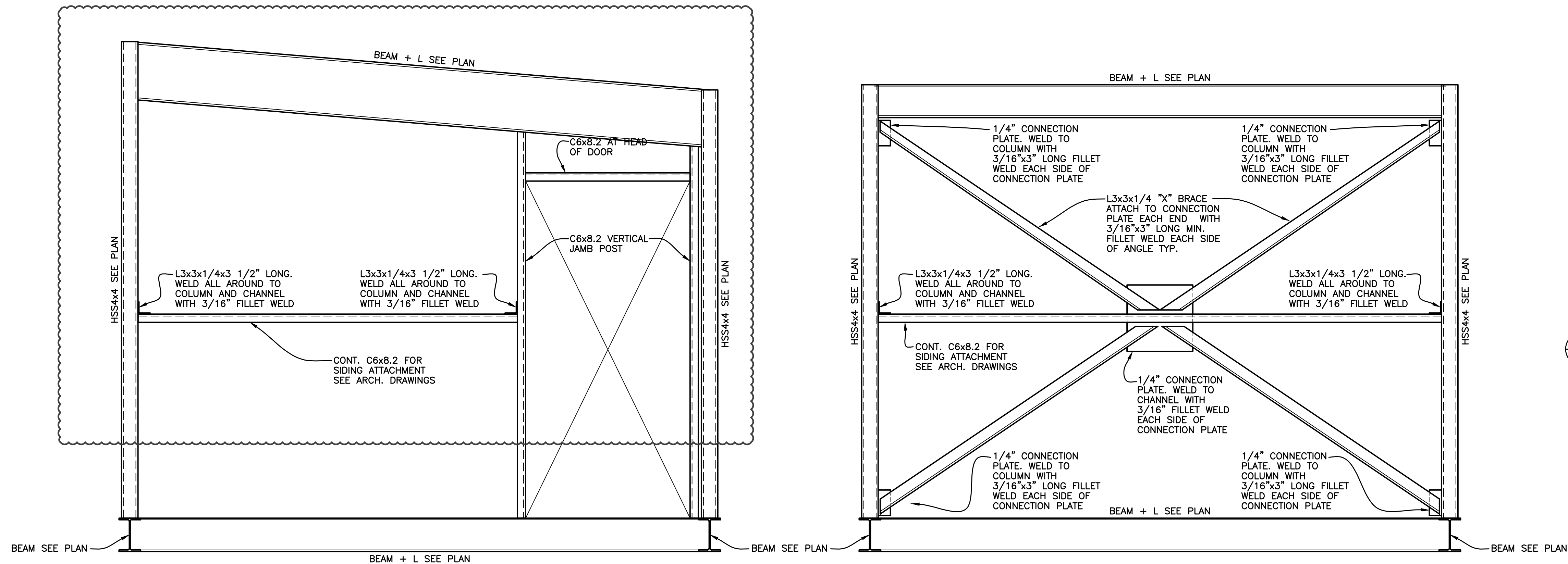


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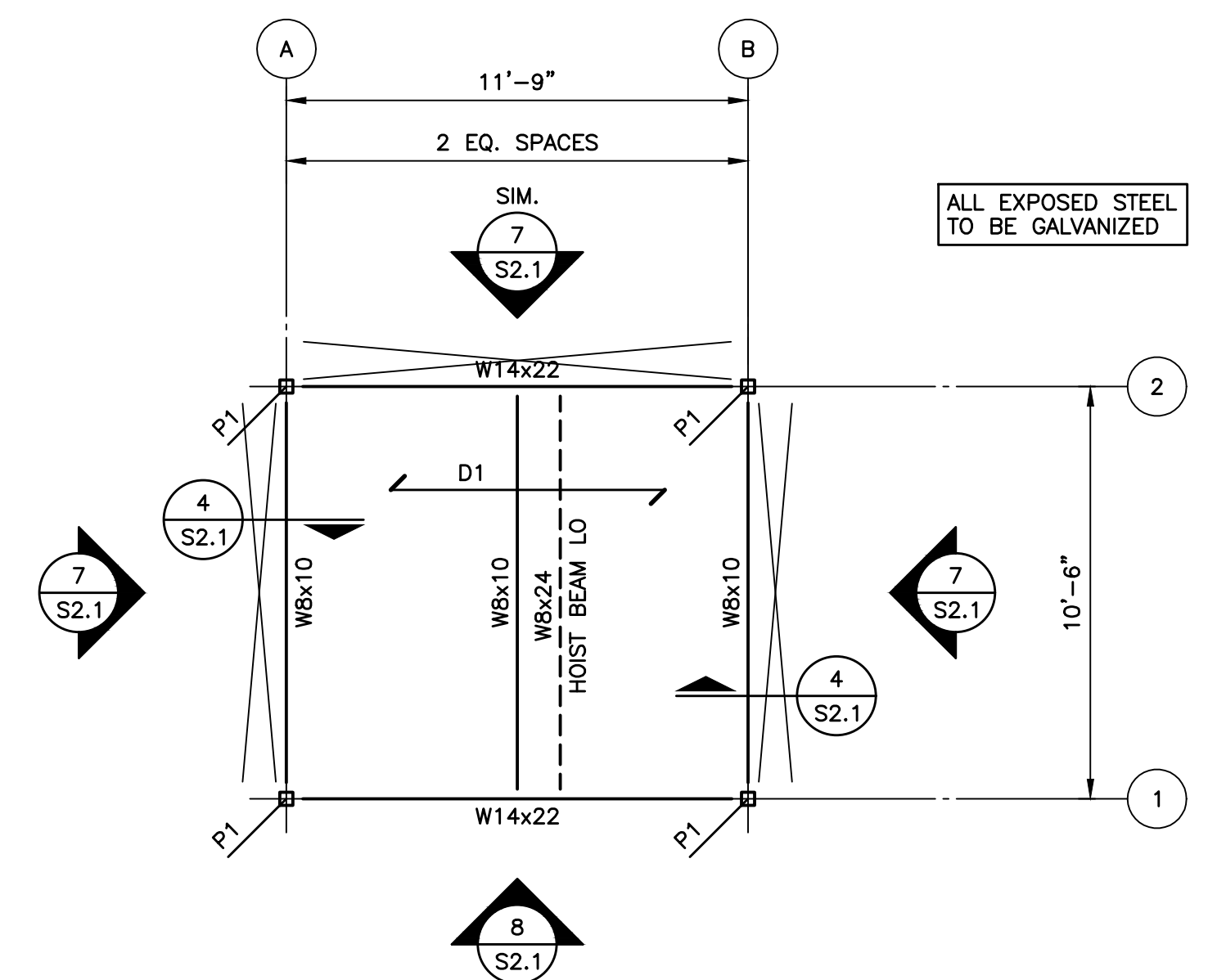
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SHEET TITLE  
SECTION & DETAILS

Sheet Number  
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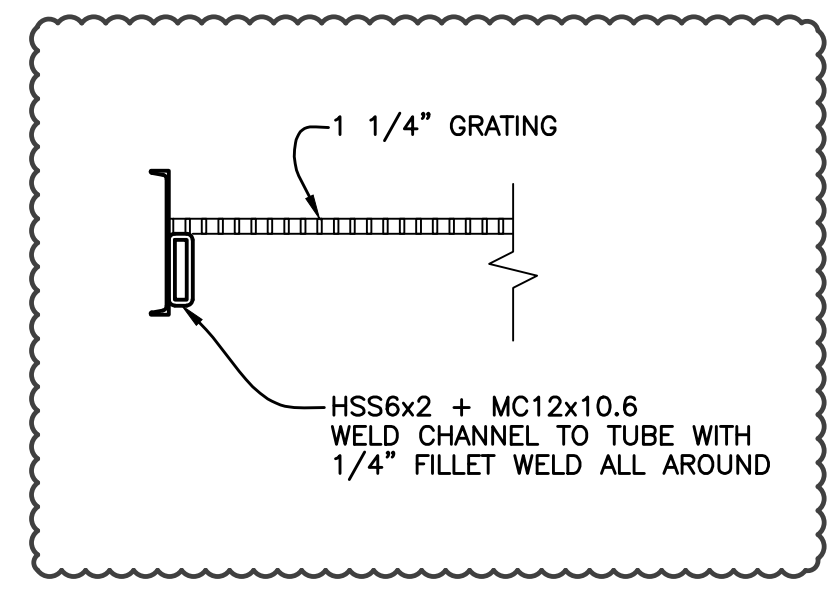
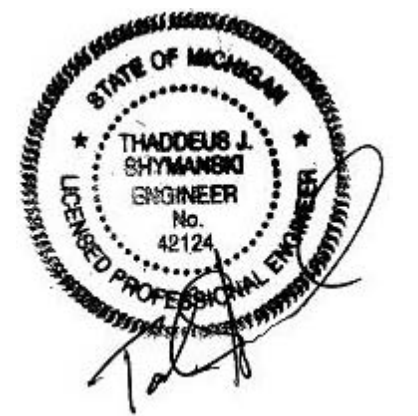


**8 ELEVATION**  
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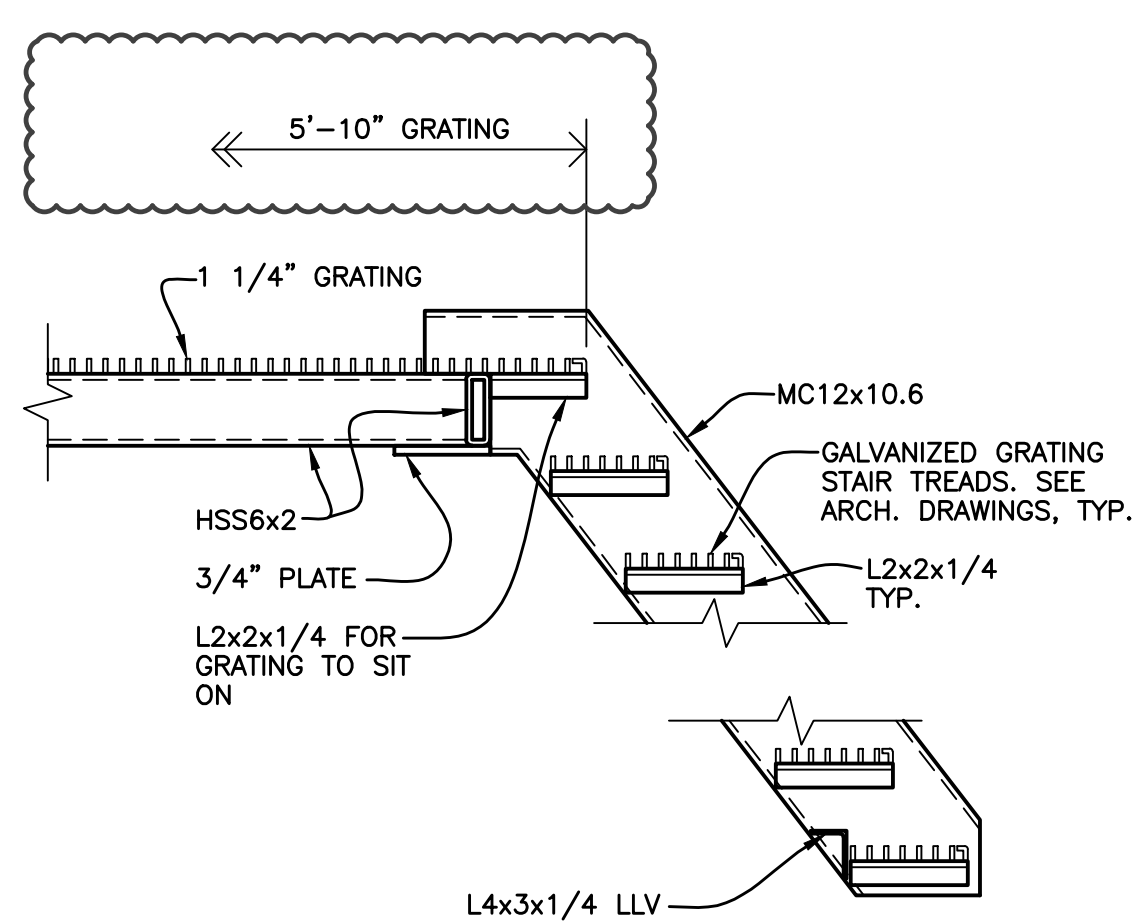
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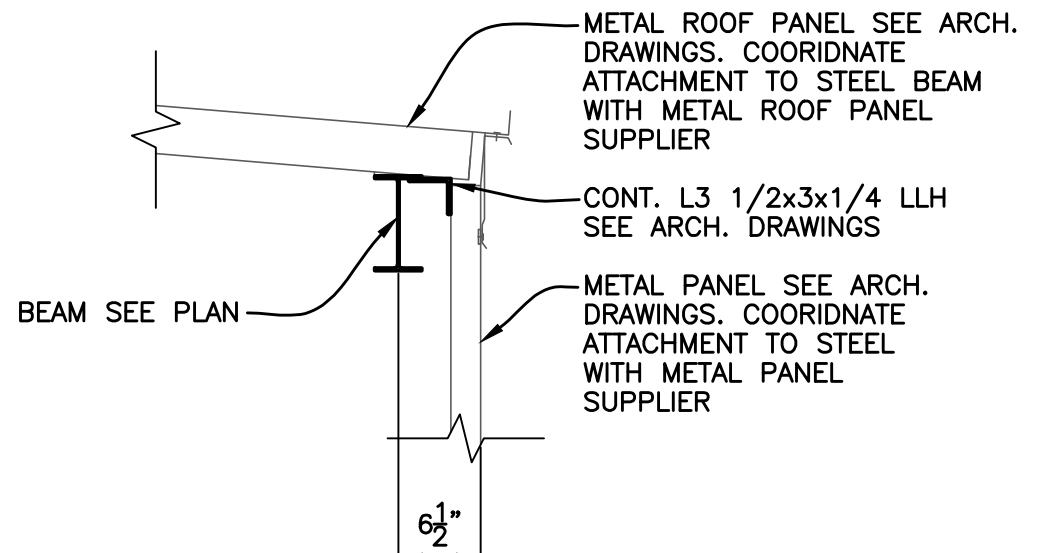
**HIGH ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



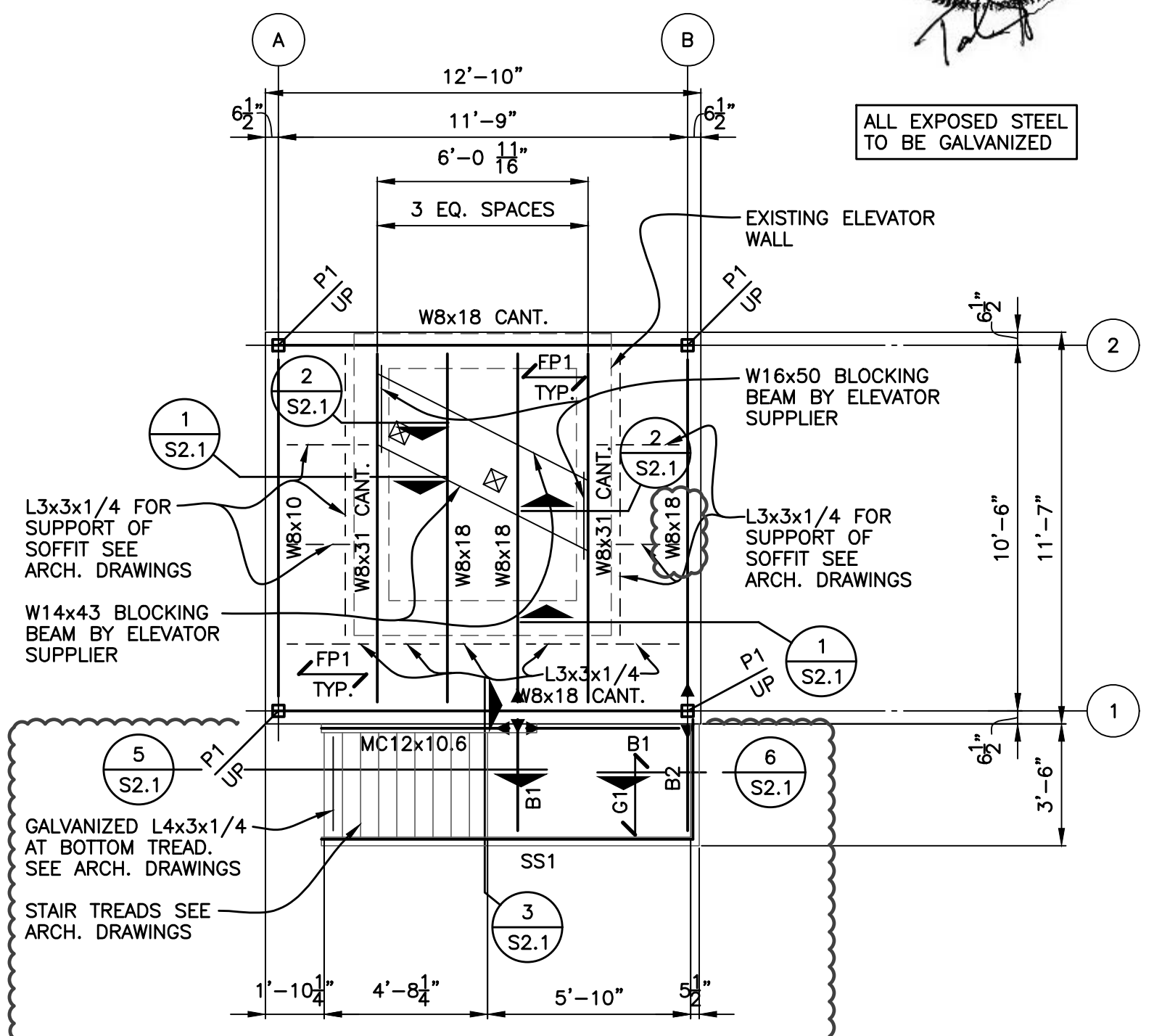
**6 SECTION**  
SCALE: 3/4" = 1'-0"



**5 SECTION**  
SCALE: 3/4" = 1'-0"

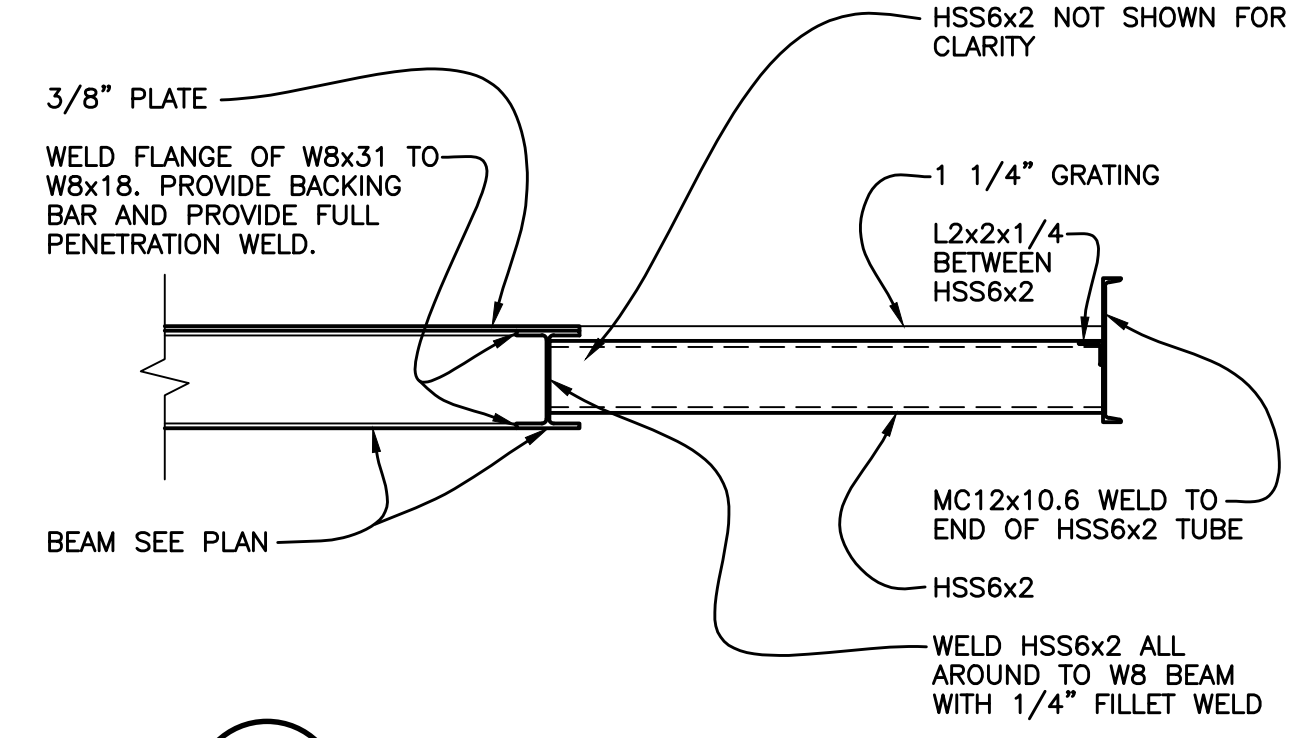


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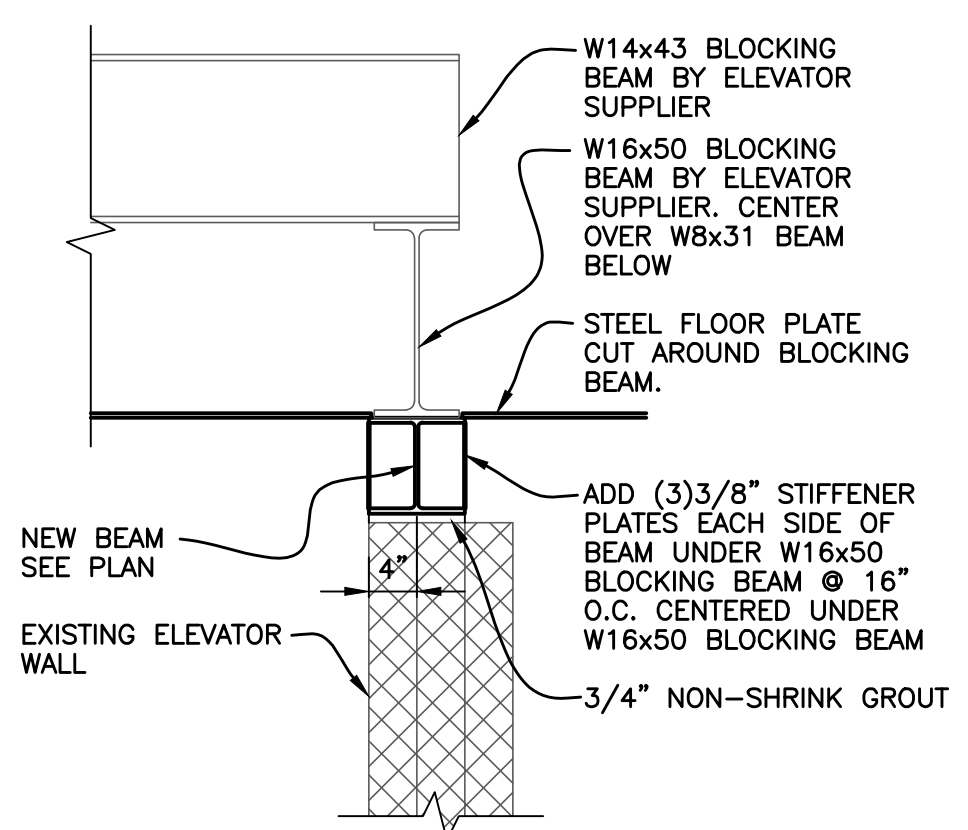


**ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"

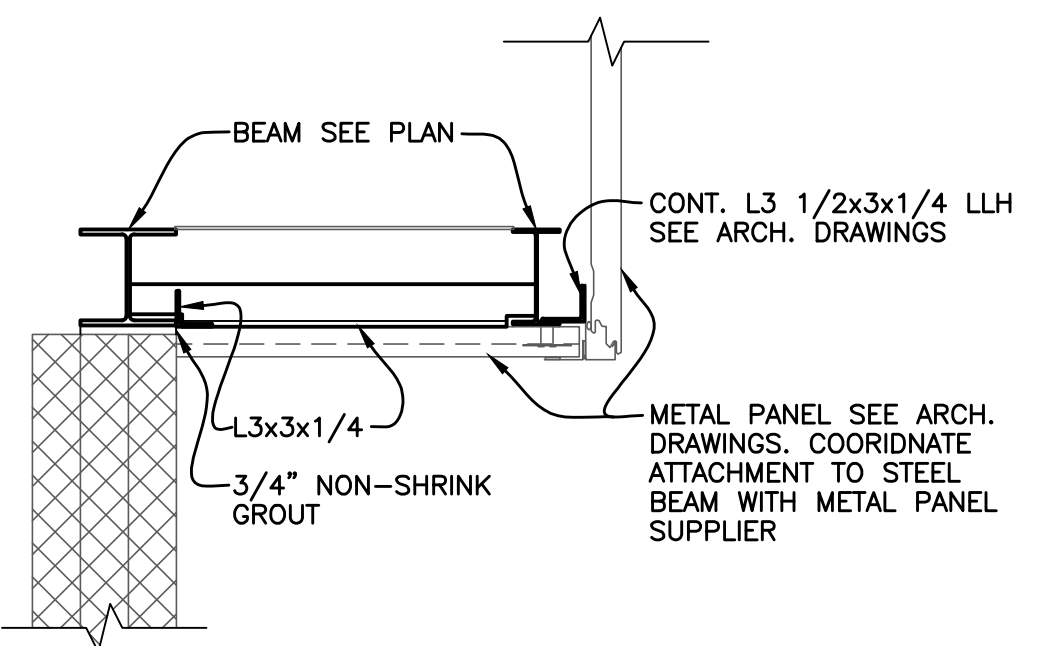
- FP1 3/8" THICK DIAMOND FLOOR PLATE, TYP.
- G1 1 1/4" GALVANIZED BAR GRADING
- INDICATES FULL MOMENT CONNECTION
- P1: HSS4x4x1/4 POST COLUMN. SIT ON TOP OF W8 CANT. BEAMS
- B1: HSS6x2x1/4. WELD ALL AROUND TO MEMBERS EACH END WITH 1/4" FILLET WELD
- B2: HSS6x2x1/4 + MC12x10.6. WELD ALL AROUND TO MEMBERS EACH END WITH 1/4" FILLET WELD. WELD CHANNEL TO HSS6x2 WITH 1/4" FILLET WELD ALL AROUND
- SS1: MC12x10.6 STAIR STRINGER



**3 SECTION**  
SCALE: 3/4" = 1'-0"



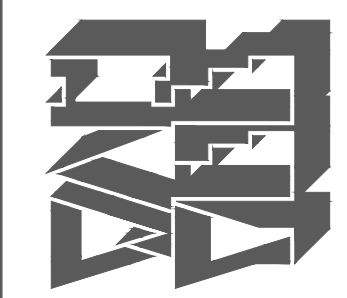
**2 SECTION**  
SCALE: 3/4" = 1'-0"



**1 SECTION**  
SCALE: 3/4" = 1'-0"

**Shymanski & Associates, L.L.C.**  
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PROJECT  
**ELEVATOR PENTHOUSE RENOVATION**  
**66 ADELAIDE**  
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Job Number  
**5122**

SHEET TITLE  
**ROOF FRAMING PLAN**

Sheet Number  
**S2.1**





SECTION 07 41 13 - PREFORMED INSULATED METAL ROOFING

A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

- 1. REMOVAL OF PROTECTIVE STRIPPABLE PLASTIC COATING FROM PREFINISHED ITEMS AS WORK PROGRESSES AND IS COMPLETED IN EACH AREA.
2. AT COMPLETION OF ERECTION, WASH OR CLEAN ALL EXPOSED SURFACES AND TOUCH-UP ALL AREAS OF MARRED PAINT...
B. INSPECTION, PREPARATION, AND COORDINATION:
1. INSPECT ALL SURFACES UPON WHICH METAL ROOFING WORK IS TO BE APPLIED...
2. ALL SURFACES TO BE COVERED SHALL BE SMOOTH, DRY AND FREE FROM DIRT, DEBRIS AND FOREIGN MATERIAL...
C. WARRANTY:
1. FLUOROCARBON COATING: PROVIDE FROM THE ROOFING MANUFACTURER, A 20 YEAR WRITTEN WARRANTY COVERING COLOR FADE, CRACKING, PEELING, CHALK AND FILM INTEGRITY...

- D. PREFORMED METAL ROOFING AND ACCESSORIES:
1. MANUFACTURER: PREFINISHED METAL ITEMS AS MANUFACTURED BY CECO BUILDING SYSTEMS...
2. TRIM: BRAKE-FORMED TRIM, INCLUDING BASE AND CORNER TRIM...
E. FASTENERS:
a. SELF-TAPPING SCREWS AND OTHER ACCEPTABLE FASTENERS RECOMMENDED BY METAL PANEL MANUFACTURER...
F. MISCELLANEOUS:
1. NEOPRENE FLASHING: 1/8" THICK, N-35 NEOPRENE SHEET (BLACK)...
2. NEOPRENE WASHERS: REQUIRED FOR INSTALLATION.

END OF SECTION

SECTION 07 42 13 - PREFORMED INSULATED METAL SIDING

A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

- 1. AT COMPLETION OF ERECTION, WASH OR CLEAN ALL EXPOSED SURFACES AND TOUCH-UP ALL AREAS OF MARRED PAINT...
B. INSPECTION, PREPARATION, AND COORDINATION:
1. INSPECT ALL SURFACES UPON WHICH METAL SIDING WORK IS TO BE APPLIED...
2. ALL SURFACES TO BE COVERED SHALL BE SMOOTH, DRY AND FREE FROM DIRT, DEBRIS AND FOREIGN MATERIAL...
C. WARRANTY:
1. FLUOROPOLYMER COATING: PROVIDE FROM THE SIDING MANUFACTURER, A 10 YEAR WRITTEN WARRANTY COVERING COLOR FADE, CRACKING, PEELING, CHALK AND FILM INTEGRITY...
D. PREFORMED METAL SIDING AND ACCESSORIES:
1. MANUFACTURER: PREFINISHED METAL ITEMS AS MANUFACTURED BY CECO BUILDING SYSTEMS...
2. INSULATED METAL SIDING: CECO, CF FLUTE, PROVIDED IN CONTINUOUS LENGTHS...
3. PANEL WIDTH: 42 INCHES...
4. SEALANT: MANUFACTURER STANDARD, FIELD APPLIED...
5. TRIM: BRAKE-FORMED TRIM, INCLUDING BASE AND CORNER TRIM...
E. FASTENERS:
1. ATTACH PANELS TO METAL FRAMING USING SCREWS, FASTENERS, SEALANTS, AND ADHESIVES...
2. ATTACH PANEL FLASHING TRIM PIECES TO SUPPORTS USING RECOMMENDED FASTENERS AND JOINT SEALERS...
3. JOINT SEALERS: INSTALL SEALANTS WHERE INDICATED AND WHERE REQUIRED FOR WEATHERPROOF PERFORMANCE OF METAL PANEL ASSEMBLIES...
4. SEAL PANEL BASE ASSEMBLY, OPENINGS, PANEL HEAD JOINTS, AND PERIMETER JOINTS USING SEALANTS INDICATED IN MANUFACTURER'S INSTRUCTIONS...
5. PREPARE JOINTS AND APPLY SEALANTS PER REQUIREMENTS OF DIVISION 07 SECTION.

F. MISCELLANEOUS:
1. NEOPRENE WASHERS: REQUIRED FOR INSTALLATION.
2. FELT UNDERLAYMENT: TYPE II, NO. 30, UNPERFORATED ROOFING FELT CONFORMING TO ASTM STANDARD D226.

END OF SECTION

SECTION 07 60 00 - SHEET METAL WORK

- A. WORK INCLUDED:
1. PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND/OR REQUIRED BY FIELD CONDITIONS...
2. TOUCH-UP PREFINISHED ITEMS DAMAGED DURING INSTALLATION.
B. APPLICABLE STANDARDS: WORK AND MATERIALS SHALL CONFORM WITH THE REQUIREMENTS OF THE 'ARCHITECTURAL SHEET METAL MANUAL', FIFTH EDITION, PUBLISHED IN 1993...
C. QUALIFICATIONS: SHEET METAL CONTRACTOR SHALL BE A QUALIFIED CONTRACTING FIRM...
D. MATERIALS:
1. GENERAL: PROVIDE ALL SHEET METAL WORK, EXCEPT WHERE NOTED ON THE DRAWINGS OR SPECIFIED, TO BE PROVIDED BY OTHER TRADES.
2. GALVANIZED SHEET METAL: COMMERCIAL QUALITY, COATED BEARING SHEET STEEL OF NOT LESS THAN THE US STANDARD GAUGES SPECIFIED...
3. FASTENERS: #10 X 1-1/4" MINIMUM HEX HEAD SCREWS, HEAVY CADMIUM PLATED STEEL...
4. SEALANTS:
a. FOR USE ON METAL JOINTS: MONO 6598- ONE-PART ACRYLIC TERPOLYMER SEALANT...
E. FINISHES:
1. FIELD PAINTED METALS: GALVANIZED METAL PRODUCTS SHALL BE MILL PHOSPHATIZED...
2. PREFINISHED METALS: FACTORY-APPLIED, PRIMED AND OVEN-BAKED FINISH BASED ON KYNAR 5000 RESIN...
3. COLORS: AS SELECTED BY THE ARCHITECT.

SECTION 07 70 00 - ROOF SPECIALTIES AND ACCESSORIES

- A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND/OR REQUIRED BY FIELD CONDITIONS...
B. ROOF HATCH MANUFACTURERS:
1. THE BILCO COMPANY, NEW HAVEN, CT...
2. BABCOCK-DAVIS, BROOKLYN PARK, MN...
3. MILCOR, COMMERCIAL PRODUCTS GROUP OF HART & COOLEY, INC.
C. ROOF HATCH TYPE: FACTORY ASSEMBLED METAL ROOF HATCHES...
D. COVER: 14 GAUGE PAINT BOND G-90 GALVANIZED STEEL...
E. CURB: 12" HIGH, 14 GAUGE PAINT BOND G-90 GALVANIZED STEEL...
F. FACTORY FINISH: RED OXIDE PRIME PAINT BOND ON GALVANIZED STEEL.
G. CONSTRUCTION AND HARDWARE: FACTORY ASSEMBLED WITH HEAVY PINTLE HINGES...
H. PIPE SUPPORTS: PROVIDE ROOFING CONTRACTOR WITH MODELS 3-R 2 AND/OR 3-R 4...
I. PIPE SUPPORT PRODUCT VERIFICATION: CONTRACTOR SHALL VERIFY THE NEED AND/OR USE OF PIPE SUPPORT PRODUCTS...
J. PIPE FLASHINGS: PORTALS PLUS, COMMERCIAL PRODUCTS GROUP OF HART & COOLEY, INC.
K. FLASHING SYSTEM - SINGLE OR MULTIPLE PIPE PENETRATIONS: FACTORY FABRICATED FLASHING SYSTEM...
L. CURB MOUNTED PIPE FLASHING SYSTEM: FACTORY FABRICATED, CURB MOUNTED PIPE FLASHING SYSTEM...
M. INSTALLATION:
1. GENERAL: WHERE REQUIRED BY DRAWINGS AND/OR FIELD CONDITIONS, FURNISH TO THE ROOFING CONTRACTORS ALL ROOF SPECIALTIES AND ACCESSORIES...
END OF SECTION

SECTION 07 90 00 - JOINT PROTECTION

- A. WORK INCLUDED:
1. REMOVAL OF EXISTING CAULKING MATERIALS AS REQUIRED BY DRAWINGS AND/OR FIELD CONDITIONS...
2. PREPARATION OF SURFACES.
3. EXTERIOR AND INTERIOR CAULKING OF THE FOLLOWING JOINT TYPES: EXTERIOR CAULKING SHALL BE WITH SEALANTS...
4. BETWEEN DISSIMILAR MATERIALS, INCLUDING CONCRETE OR MASONRY TO METAL...
5. BETWEEN SIMILAR MATERIALS AS DETAILED, UNLESS SPECIFICALLY EXCLUDED.
6. BETWEEN THRESHOLDS AND ADJOINING MATERIALS.
7. EXTERIOR JOINTS WHERE MECHANICAL AND ELECTRICAL WORK PENETRATES CONCRETE, MASONRY, OR METAL PANELS.
8. COMPRESSIBLE BACK-UP MATERIAL AS REQUIRED.
9. FIRESTOPPING SYSTEMS.
10. CLEANING AND REMOVING EXCESS MATERIALS.
B. NOTE: INTERIOR CAULKING FOR CERTAIN LOCATIONS MAY REQUIRE SEALANT IN LIEU OF CAULKING COMPOUNDS...
C. COMPARABLE MANUFACTURERS AND PRODUCTS: PROVIDE PRODUCTS OF OTHER MANUFACTURERS...
D. GRADE AND CONSISTENCY: PROVIDE CORRECT GRADE AND CONSISTENCY IN COLORS TO MATCH ADJACENT FINISH SURFACES...
E. PRIMERS: TYPES RECOMMENDED BY THE MANUFACTURER...
F. SEALANTS:
1. GENERAL USE: MULTIPLE-COMPONENT POLYURETHANE SEALANT...
2. SANITARY SEALANTS: NON-FOOD CONTACT SEALANT APPLICATIONS...
G. CAULKING COMPOUND: ONE-PART ACRYLIC LATEX SEALANT...
H. BACK-UP MATERIAL: ROUND, FOAM ROD, CYLINDRICAL, FLEXIBLE...
I. KEYS AND KEYING: KEY AND MASTER KEY ALL LOCKS...
J. HARDWARE FINISH: HARDWARE SHALL MATCH EXISTING SURROUNDING PERMANENT FINISHES...
K. FINISH HARDWARE SCHEDULE:
PENTHOUSE DOOR SHALL INCLUDE:
3 HINGES, MCKINNEY, T4A 3386, 4-1/2 x 4-1/2, NRP, USP...
L. INSTALLATION:
1. ALL FINISH HARDWARE FOR HOLLOW METAL DOORS...
2. HARDWARE SHALL BE COMPLETELY FITTED BEFORE THE FINAL COAT OF PAINT...
3. RAINDRIPS: ALUMINUM RAINDRIPS AT PRESSED STEEL (HOLLOW METAL) DOOR FRAMES...
M. FINAL ADJUSTMENT:
1. FURNISH THE SERVICES OF A COMPETENT HARDWARE SPECIALIST...
2. REPLACE UNITS WHICH CANNOT BE ADJUSTED FOR PROPER OPERATION...
3. FINAL ADJUSTMENT MUST OCCUR WITHIN ONE (1) WEEK OF OCCUPANCY BY THE OWNER...
4. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL AS A CONDITION OF ITS ACCEPTANCE...
N. QUALITY OF WORK:
1. FABRICATION: ALL ITEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL DOOR INSTITUTE (SDI)...
2. HOLLOW METAL DOORS: FULL FLUSH TYPE WITHOUT VISIBLE FACE JOINTS...
3. THICKNESS OF STEEL: SUFFICIENT TO PROVIDE STRONG AND RIGID CONSTRUCTION...
O. PRESSED STEEL FRAMES:
1. FABRICATION: WELDED UNIT TYPE COMBINING BUCKS AND JAMBS...
2. JAMB ANCHORS:
a. METAL STUD PARTITION INSTALLATIONS: STANDARD #18 GAUGE...
3. RUBBER BUMPERS: PROVIDE A MINIMUM OF THREE (3) SOLID RUBBER BUMPERS...
P. HOLLOW METAL DOORS:
1. DOOR TYPE: FLUSH SLAB TYPE AND OF SIZES INDICATED...
2. ENVIRONMENTAL CONDITIONS: APPLY MATERIALS IN TEMPERATURE RANGES...
3. DOOR FACES AND EDGES: SINGLE SHEETS, TURNED OVER REINFORCING CHANNELS...
Q. MATERIALS:
1. MANUFACTURERS: BENJAMIN MOORE® OR CO. (BM), ICI PAINTS (DEVONEX)®, DULUX®, GLIDDEN, ICI, PITTSBURGH® PAINTS (PPG), PRATT & LAMBERT PAINTS, DIV. SHERWIN-WILLIAMS® COMPANY (P&L), OR SHERWIN-WILLIAMS® COMPANY (S.W.).
2. PAINT GRADE: PROVIDE LEAD AND ZINC CHROMATE FREE, COMMERCIAL QUALITY GRADE COATINGS...

G. FINISHING:

- 1. CLEANING AND SHOP PAINTING: CLEAN STEEL SURFACES OF MILL SCALE, RUST, OIL, GREASE, DIRT, AND OTHER FOREIGN MATERIALS...
2. PRIME PAINTING: APPLY SHOP COAT OF RUST-INHIBITIVE PRIMER...
H. HARDWARE PREPARATION:
1. GENERAL: CUT-OUT, DRILL, TAP, COUNTERSINK, REINFORCE AND PREPARE DOORS AND DOOR FRAMES...
I. INSTALLATION:
1. EXTERIOR PRESSED STEEL FRAMES: FURNISH PRESSED STEEL FRAMES TO MASONRY CONTRACTOR...
2. DOORS: EXTERIOR DOORS SHALL BE HUNG TO FIT IN THE FRAMES WITH MINIMUM TOLERANCE...
END OF SECTION

SECTION 08 70 00 - FINISH HARDWARE

- A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. QUALITY ASSURANCE:
1. REQUIREMENTS OF REGULATORY AGENCIES: FURNISH ALL FINISH HARDWARE IN ACCORDANCE WITH LAWS, CODES, ORDINANCES AND REGULATIONS...
2. FIRE-RATED OPENINGS: PROVIDE DOOR HARDWARE FOR FIRE-RATED OPENINGS...
3. SUBSTITUTIONS: FURNISH ALL HARDWARE IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS...
C. PRE-INSTALLATION CONFERENCE: CONTRACTOR SHALL REQUIRE A HARDWARE INSTALLATION MEETING...
D. MATERIALS:
1. KEYS AND KEYING: KEY AND MASTER KEY ALL LOCKS...
2. HARDWARE FINISH: HARDWARE SHALL MATCH EXISTING SURROUNDING PERMANENT FINISHES...
E. FINISH HARDWARE SCHEDULE:
PENTHOUSE DOOR SHALL INCLUDE:
3 HINGES, MCKINNEY, T4A 3386, 4-1/2 x 4-1/2, NRP, USP...
F. INSTALLATION:
1. ALL FINISH HARDWARE FOR HOLLOW METAL DOORS...
2. HARDWARE SHALL BE COMPLETELY FITTED BEFORE THE FINAL COAT OF PAINT...
3. RAINDRIPS: ALUMINUM RAINDRIPS AT PRESSED STEEL (HOLLOW METAL) DOOR FRAMES...
G. FINAL ADJUSTMENT:
1. FURNISH THE SERVICES OF A COMPETENT HARDWARE SPECIALIST...
2. REPLACE UNITS WHICH CANNOT BE ADJUSTED FOR PROPER OPERATION...
3. FINAL ADJUSTMENT MUST OCCUR WITHIN ONE (1) WEEK OF OCCUPANCY BY THE OWNER...
4. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL AS A CONDITION OF ITS ACCEPTANCE...
H. QUALITY OF WORK:
1. FABRICATION: ALL ITEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STEEL DOOR INSTITUTE (SDI)...
2. HOLLOW METAL DOORS: FULL FLUSH TYPE WITHOUT VISIBLE FACE JOINTS...
3. THICKNESS OF STEEL: SUFFICIENT TO PROVIDE STRONG AND RIGID CONSTRUCTION...
I. PRESSED STEEL FRAMES:
1. FABRICATION: WELDED UNIT TYPE COMBINING BUCKS AND JAMBS...
2. JAMB ANCHORS:
a. METAL STUD PARTITION INSTALLATIONS: STANDARD #18 GAUGE...
3. RUBBER BUMPERS: PROVIDE A MINIMUM OF THREE (3) SOLID RUBBER BUMPERS...
J. HOLLOW METAL DOORS:
1. DOOR TYPE: FLUSH SLAB TYPE AND OF SIZES INDICATED...
2. ENVIRONMENTAL CONDITIONS: APPLY MATERIALS IN TEMPERATURE RANGES...
3. DOOR FACES AND EDGES: SINGLE SHEETS, TURNED OVER REINFORCING CHANNELS...
K. MATERIALS:
1. MANUFACTURERS: BENJAMIN MOORE® OR CO. (BM), ICI PAINTS (DEVONEX)®, DULUX®, GLIDDEN, ICI, PITTSBURGH® PAINTS (PPG), PRATT & LAMBERT PAINTS, DIV. SHERWIN-WILLIAMS® COMPANY (P&L), OR SHERWIN-WILLIAMS® COMPANY (S.W.).
2. PAINT GRADE: PROVIDE LEAD AND ZINC CHROMATE FREE, COMMERCIAL QUALITY GRADE COATINGS...

- 3. SUBSTITUTIONS OF MANUFACTURERS AND PRODUCTS: IF CONTRACTOR DESIRES TO USE MATERIALS OF A MANUFACTURER OTHER THAN SPECIFIED HEREIN...
4. COLOR IDENTIFICATION AND SELECTION: PREPARE TWO (2) 8" X 10" SAMPLES OF EACH COLOR...
5. CLAIMS: NO CLAIM AS TO THE UNSUITABILITY OF MATERIALS SPECIFIED...
F. EXISTING METAL SURFACE PRETREATMENT:
1. THOROUGHLY CLEAN ALL PREVIOUSLY PAINTED STEEL SURFACES...
2. AFTER CLEANING, PROVIDE COLD PHOSPHATIZING OF THE EXISTING STEEL SURFACES...
3. COMPARABLE TREATMENTS SHALL BE SUBJECT TO REVIEW BY THE ARCHITECT.
G. INSPECTION:
1. DEFECTIVE SURFACES: IF DEFECTIVE SURFACES ARE PAINTED, THE REFINISHING OF SUCH SURFACES...
2. DETRIMENTAL CONDITIONS: DO NOT PAINT OVER DIRT, RUST, SCALE, GREASE, MOISTURE...
H. PREPARATION:
1. GENERAL PROCEDURES: BEFORE PAINTING, USE ONLY SKILLED MECHANICS TO REMOVE ACCESSORIES...
2. PROTECTION: PROPERLY PROTECT FLOORS AND OTHER PREFINISHED MATERIALS...
3. PAINT REMOVAL WORK: REMOVE ALL PAINT FROM WORK NOT DESIGNATED TO BE PAINTED.
4. TOUCH-UP WORK: DO ALL NECESSARY TOUCHING-UP AFTER OTHER MECHANICS HAVE COMPLETED THEIR WORK...
I. APPLICATION:
1. TYPE OF FINISH AND NUMBER OF COATS: ACCORDING TO THE SPECIFIED PAINT MANUFACTURERS...
2. EXTERIOR-HOLLOW METAL DOORS AND PRESSED STEEL DOOR FRAMES:
a. SEMI-GLOSS FINISH: EXPOSED SURFACES AS NOTED ON THE DRAWINGS...
b. RAIN DRIPS: ALUMINUM RAINDRIPS AT PRESSED STEEL (HOLLOW METAL) DOOR FRAMES...
2. EXTERIOR-HOLLOW METAL DOORS AND PRESSED STEEL DOOR FRAMES:
a. SEMI-GLOSS FINISH: EXPOSED SURFACES AS NOTED ON THE DRAWINGS...
b. RAIN DRIPS: ALUMINUM RAINDRIPS AT PRESSED STEEL (HOLLOW METAL) DOOR FRAMES...
3. EXTERIOR-FERROUS METALS:
a. SEMI-GLOSS FINISH: EXPOSED NEW CONSTRUCTION SURFACES...
b. GALVANIZED FERROUS METALS:
a. SEMI-GLOSS FINISH: EXPOSED NEW CONSTRUCTION SURFACES...
b. GALVANIZED FERROUS METALS:
a. SEMI-GLOSS FINISH: EXPOSED SURFACES AS NOTED ON THE DRAWINGS...
b. RAIN DRIPS: ALUMINUM RAINDRIPS AT PRESSED STEEL (HOLLOW METAL) DOOR FRAMES...
END OF SECTION

SECTION 10 44 00 - FIRE PROTECTION SPECIALTIES
A. WORK INCLUDED: PRODUCTS AND MATERIALS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. FIRE EXTINGUISHERS:
1. PROVIDE SIZE, TYPE, AND QUANTITIES AS REQUIRED BY FIRE MARSHAL...
2. PROTECTIVE COVERINGS: PROVIDE COVERINGS AS REQUIRED TO PROTECT FINISHED SURFACES...
END OF SECTION

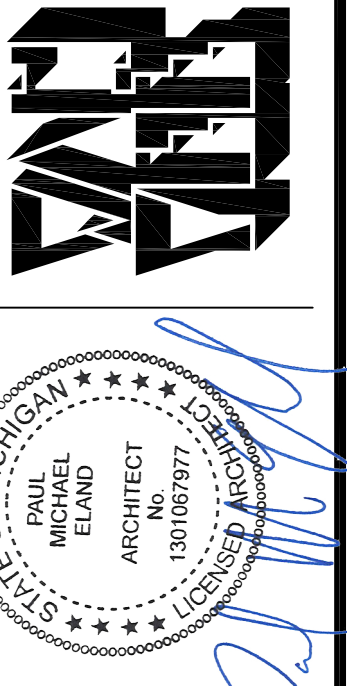
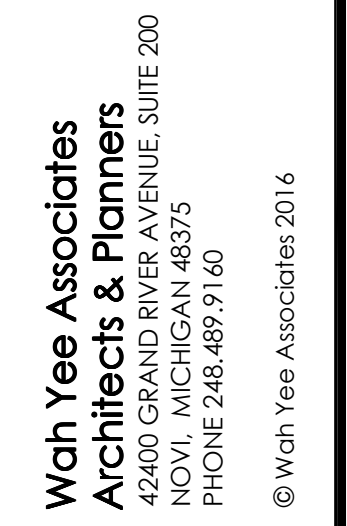
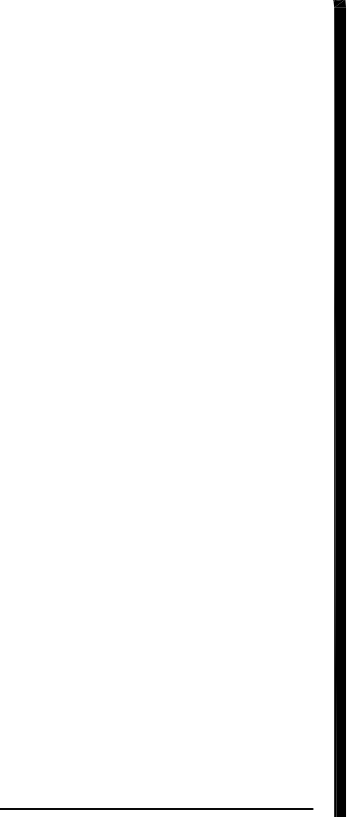
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END OF SECTION



PROJECT
ELEVATOR PENTHOUSE RENOVATION
66 ADELAIDE
DETROIT, MI

Date Issued
Bids & Permit 12/23/2020

Job Number
5122

SHEET TITLE
SPECIFICATIONS

Sheet Number
SP3.0

Do not scale drawings - Use figured dimensions. CAD DWG 5122SP.DWG

Jason Kocembo  
Century Architectural Hardware  
248-348-6500  
29220 Lyon Oaks Dr.  
Wixom, MI 48393  
2/24/2021

Tom Carlson  
Elevator Penthouse  
E & L Construction  
66 Adelaide Ave  
Detroit, MI

Dear Tom

We have enclosed (1) electronic copy of our hollow metal, wood door and door hardware schedule for your approval. We have also included (1) copy of our hardware cut sheets/ shop drawings prepared from drawings dated 12/23/2020. Please return (1) approved shop drawing. Please provide accurate material need dates so we can plan accordingly.

**Leadtimes after approval and answers to all questions.**

**Century lead times**

Hollow Metal Frames 4-5 Weeks  
Hollow Metal Doors 5-6 Weeks  
Hardware 4-5 Weeks

**GC NEED DATES**

Sincerely,

Jason Kocembo  
Century Architectural Hardware  
248-348-6500





**Commercial Doors, Frames & Hardware , Toilet Partitions & Accessories**

Attention: Architect, Designer, Specification Writer, Contractor and Installer

The purpose of this door, frame and hardware submittal is to detail the manufacturers and products that we plan to include in the contract or purchase order. The detail that is scheduled for each opening is Century Architectural Hardware's interpretation of the designers intended use for that opening. We base our interpretations on the architectural specifications and plans.

Century Architectural Hardware strives for perfection when detailing, errors and or omission can and will occur. Century Architectural Hardware will take responsibility for clear errors and or omissions from the architectural plans and specification. If errors are created by others or errors caused by incomplete or missing information in the architectural plans and specification will be the responsibility of the architect or specifier. If additional cost occurs it is to be paid by the architect, designer or contractor.

If items are added, deleted or changed during or after the submittal process may result in a change in value from the purchase order or contract amount. We must receive written permission to process these changes.

Century Architectural Hardware will deliver material F.O.B tailgate only. Additional delivery charges may occur if return trips are required because of lack of labor to unload the material or if it is not done in a timely manner.

No back-charges for work done or material furnished by others will be accepted with out prior written approval from Century Architectural Hardware.

Approval to proceed with ordering material has been given when returned stamped by the architect. Frames and doors require preparation for hardware. doors and frames are unable to be ordered until hardware is reviewed and approved.

**DOOR FRAME & HARDWARE**

**February 24, 2021**

PROJECT

Name: ELEVATOR PENTHOUSE

Address: 66 ADELAIDE

DETROIT MI 48201

Phone:

Superintendent: TOM CARLSON

810-845-4854 TOM.CARLSON@EANDLGROUP.COM

Engineer:

CONTRACTOR

Name: E & L CONSTRUCTION GROUP

Address: P.O. BOX 418

FLINT MI 48501

Phone: 810-744-4300

Contact: TODD FINLEY

Project Manager:

ARCHITECT

Name: WAH YEE ASSOCIATES & PLANNERS

Address: 42400 GRAND RIVER AVE STE #200

NOVI MI 48375

Phone: 248-489-9160

Project Number: 5122

Date Schedule Submitted: February 23, 2021

Date H/W Schedule Approved:

Date D/F Schedule Approved:

Plans Dated

December 23, 2020

Addendums Noted: 0



CENTURY ARCHITECTURAL HARDWARE

29220 LYON OAKS DR.

WIXOM

MI

48393

Tel: 248-348-6500

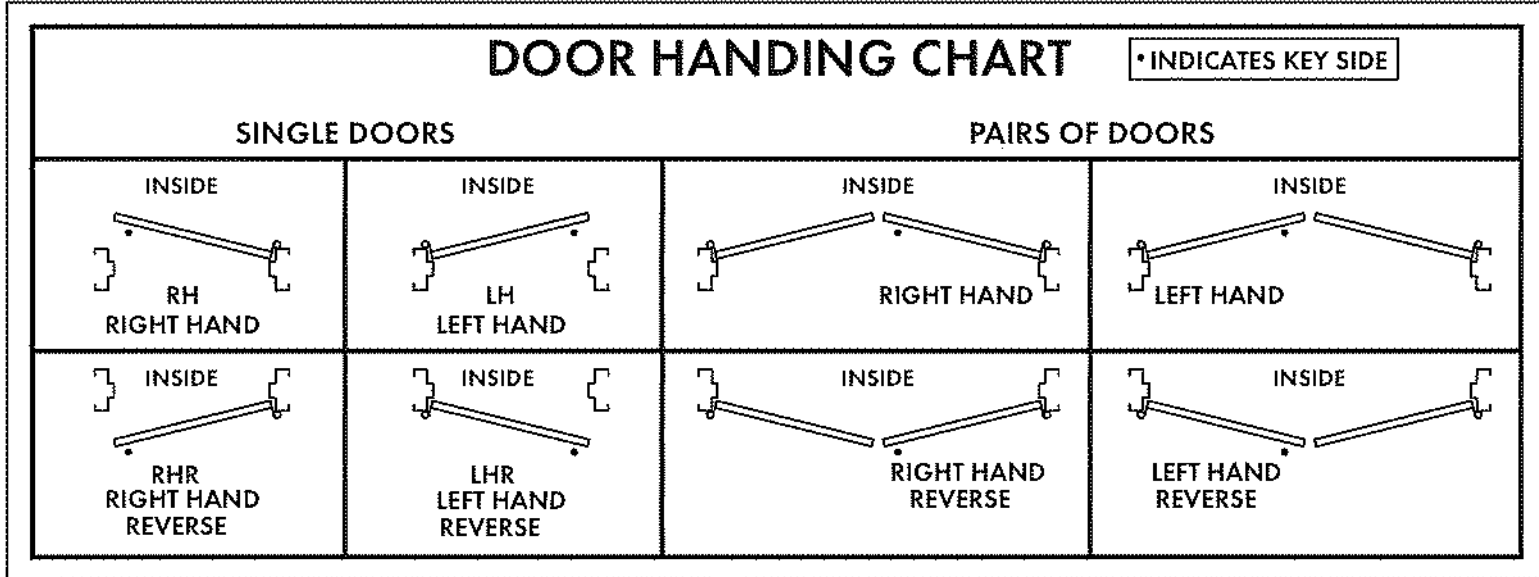
Fax:

ELEVATOR PENTHOUSE

Control No.1145

1145

Submitted By: JASON KOCEMBO



CENTURY ARCHITECTURAL HARDWARE

ELEVATOR PENTHOUSE

29220 LYON OAKS DR.

Control No. 1145

WIXOM MI 48393

1145


Tel: 248-348-6500

Submitted By: JASON KOCEMBO

February 24, 2021


## Manufacturers

Abbreviation	Name
NAT	NATIONAL GUARD
REP	REPUBLIC
SAR	SARGENT
STA	STANLEY

 — EST. 1984 —	CENTURY ARCHITECTURAL HARDWARE	ELEVATOR PENTHOUSE
	29220 LYON OAKS DR.	Control No. 1145
	WIXOM MI 48393	1145
	Tel: 248-348-6500	Submitted By: JASON KOCEMBO

## Hardware Finishes

Finish	Description
26D	CHROMIUM PLATED, SATIN
A	MILL FINISH ALUMINUM
B	BROWN
EN	ALUMINUM ENAMEL
MILL	MILL FINISH ALUMINUM
US26D	SATIN CHROMIUM PLATED

 <p>— EST. 1984 —</p>	CENTURY ARCHITECTURAL HARDWARE	ELEVATOR PENTHOUSE
	29220 LYON OAKS DR.	Control No. 1145
	WIXOM MI 48393	1145
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February 24, 2021

DOOR INDEX

Mark

Heading #

Mark

Heading #

Mark

Heading #

1

1



CENTURY ARCHITECTURAL HARDWARE

ELEVATOR PENTHOUSE

29220 LYON OAKS DR.

Control No.1145

WIXOM

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48393

1145

Tel: 248-348-6500

Submitted By: JASON KOCEMBO

### Door and Frame Schedule

Mark # / Arch Mk	Location	Qty	Opng	Hand	Opng Width	Opng Height	Rating	Frame Information							Door Information							UC/	Hw Hdg		
								Constr	Series	Ga	Anchor	Depth	Type	Mat'l	Fin	Size	Series	Style	Core	Mat'l	Fin			Type	Edge
1/1	PENTHOUSE FROM ELEVATOR	1	SGL	LHR	3-0	7-0		STDWE LD	ME	16	WM	5 3/4	HMF F1	A60	PRI	3-0	DP	F	PS	18	PRI	HMD F	3/4	1 3/4	1
								Fr Note:							7-0							Dr Note:			



CENTURY ARCHITECTURAL HARDWARE

29220 LYON OAKS DR.

WIXOM MI 48393

Tel: 248-348-6500 Fax:

ELEVATOR PENTHOUSE

Control No. 1145

1145

Submitted By: JASON KOCEMBO

February 24, 2021

## Abbreviations Used

Abb	Description
A60	GALVANNEALED, HOT DIPPED, HEAT TREATED, 6OZ ZINC COATED STEEL
DP	HONEYCOMB CORE
F	FLUSH
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
ME	MASONRY FRAME (MITERED CORNER), 3 SIDED
PRI	PRIME
PS	POLYSTYRENE CORE
REP	REPUBLIC
SGL	SINGLE DOOR
STDWELD	WELDED, STANDARD
WM	WIRE MASONRY ANCHOR



CENTURY ARCHITECTURAL HARDWARE

ELEVATOR PENTHOUSE

29220 LYON OAKS DR.

Control No. 1145

WIXOM MI 48393

1145

Tel: 248-348-6500 Fax:

Submitted By: JASON KOCEMBO

February 24, 2021



# Headings

## Headings: 1

1 Marks:  
1

### Each Opening To Have:

3	HINGE, 4 1/2, HVY WT	FBB168 4-1/2 X 4-1/2 X NRP	26D	STA
1	MORTISE LOCK	8243 X LNJ X KD	US26D	SAR
1	CLOSER, PARALLEL ARM	1431-RUO	EN	SAR
1	SEAL	5050B X 17'	B	NAT
1	DOOR SWEEP	100V X 36	MILL	NAT
1	THRESHOLD	513 X 36	MILL	NAT
1	DRIP CAP	16A X 40	A	NAT

Total # Marks: 1



CENTURY ARCHITECTURAL HARDWARE

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29220 LYON OAKS DR.

Control No. 1145

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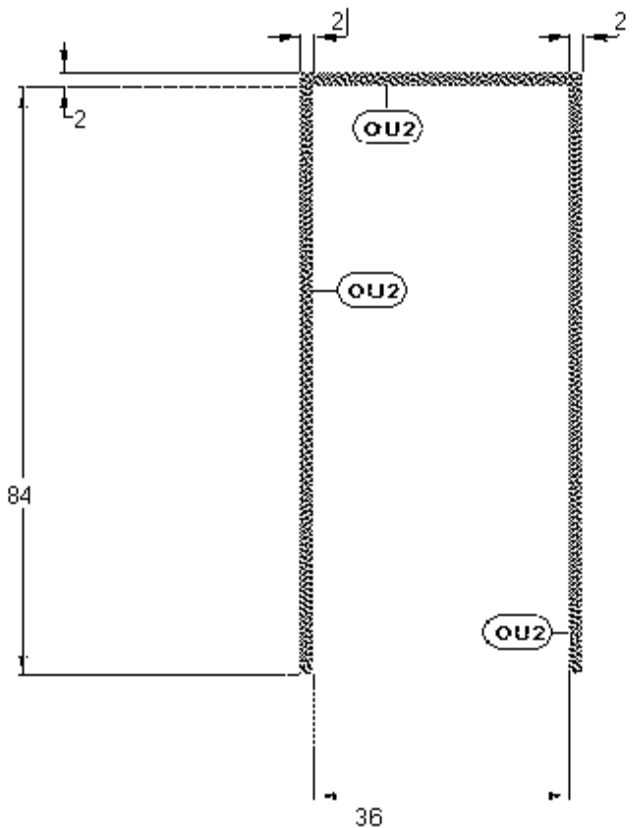
Tel: 248-348-6500

Fax:

Submitted By: JASON KOCEMBO

February 24, 2021

Page 1 of 1



Arch Fr Type:

Fr Template:

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F1

1

ALL DIMENSIONS EXPRESSED IN INCHES

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CENTURY ARCHITECTURAL HARDWARE

ELEVATOR PENTHOUSE

29220 LYON OAKS DR.

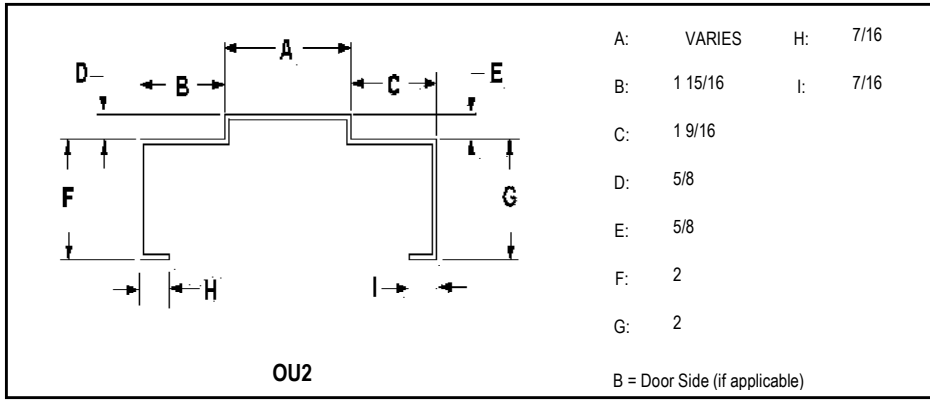
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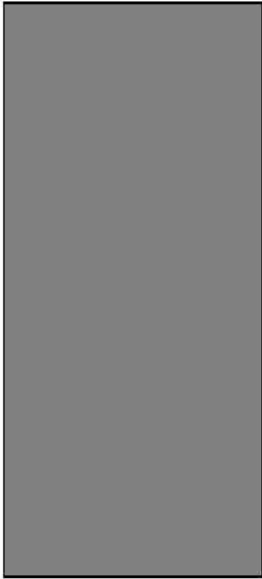
Tel: 248-348-6500 Fax:

Submitted By: JASON KOCEMBO



	CENTURY ARCHITECTURAL HARDWARE	ELEVATOR PENTHOUSE
	29220 LYON OAKS DR.	Control No. 1145
	WIXOM MI 48393	1145
	Tel: 248-348-6500	Submitted By: JASON KOCEMBO

February 24, 2021



U/C: 3/4



F Arch Dr Type

1



CENTURY ARCHITECTURAL HARDWARE

29220 LYON OAKS DR.

WIXOM

MI

48393

Tel: 248-348-6500

Fax:

ELEVATOR PENTHOUSE

Control No.1145

1145

Submitted By: JASON KOCEMBO

Schedule Of Doors and Frames

N/A/N/A

February 24, 2021

PROJECT

Name: ELEVATOR PENTHOUSE

Address: 66 ADELAIDE  
DETROIT MI 48201

Phone:

Superintendent: TOM CARLSON  
810-845-4854 TOM.CARLSON@EANDLGROUP.COM

Engineer:

CONTRACTOR

Name: E & L CONSTRUCTION GROUP

Address: P.O. BOX 418  
FLINT MI 48501

Phone: 810-744-4300

Contact: TODD FINLEY

Project Manager:

ARCHITECT

Name: WAH YEE ASSOCIATES & PLANNERS

Address: 42400 GRAND RIVER AVE STE #200  
NOVI MI 48375

Phone: 248-489-9160

Project Number: 5122



CENTURY ARCHITECTURAL HARDWARE

29220 LYON OAKS DR.

WIXOM MI 48393

Tel: 248-348-6500

Fax:

ELEVATOR PENTHOUSE

Control No.1145

1145

Submitted By: JASON KOCEMBO

## DOORS - DP SERIES

DP Series Doors as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

**Thickness** - 1-3/4"

**Actual Door Size** - Door undersized from nominal by 7/32" in width and 7/8" in height. Standard undercut is 3/4".

**Hinge Rail & Reinforcement** - Hinge edge is non-beveled with 1/4" standard hinge backset. 7 gage Universal standard / heavy weight reinforcements.

**Lock Rail** - Lock edge is beveled. 14 gage reinforcement for mortise lock, 16 gage for cylindrical locks are of an integral type in accordance with ANSI A115 Standards. (Beveled lock edge 1/8" in 2" standard.)

**Edge Seams** - Visible seam

**Top Channel** - Flush, 16 gage channel, projection welded at a maximum 2-1/2" on center. (Optional - Inverted)

**Bottom Channel** - Inverted 16 gage channel, projection welded at a maximum 2-1/2" on center.

**Cores Available** - Honeycomb or Polystyrene.

**Face Skins** - 20 gage or 18 gage, cold rolled or galvanized steel.

**Closer Reinforcement (Option)** - 14 gage standard / 12 gage optional. (18" x 6")

**Size Availability** - Minimum 2'6" x 6'8", Maximum 4'0" x 8'0"

**SDI 100 Level/Model** - Level 1 Model 1 (Standard Duty, minimum 20 gage, hollow steel composite)  
Level 2 Model 1 or 2 (Heavy Duty, minimum 18 gage, hollow steel composite)

**Handing Design** - Handed

Revised 7/15

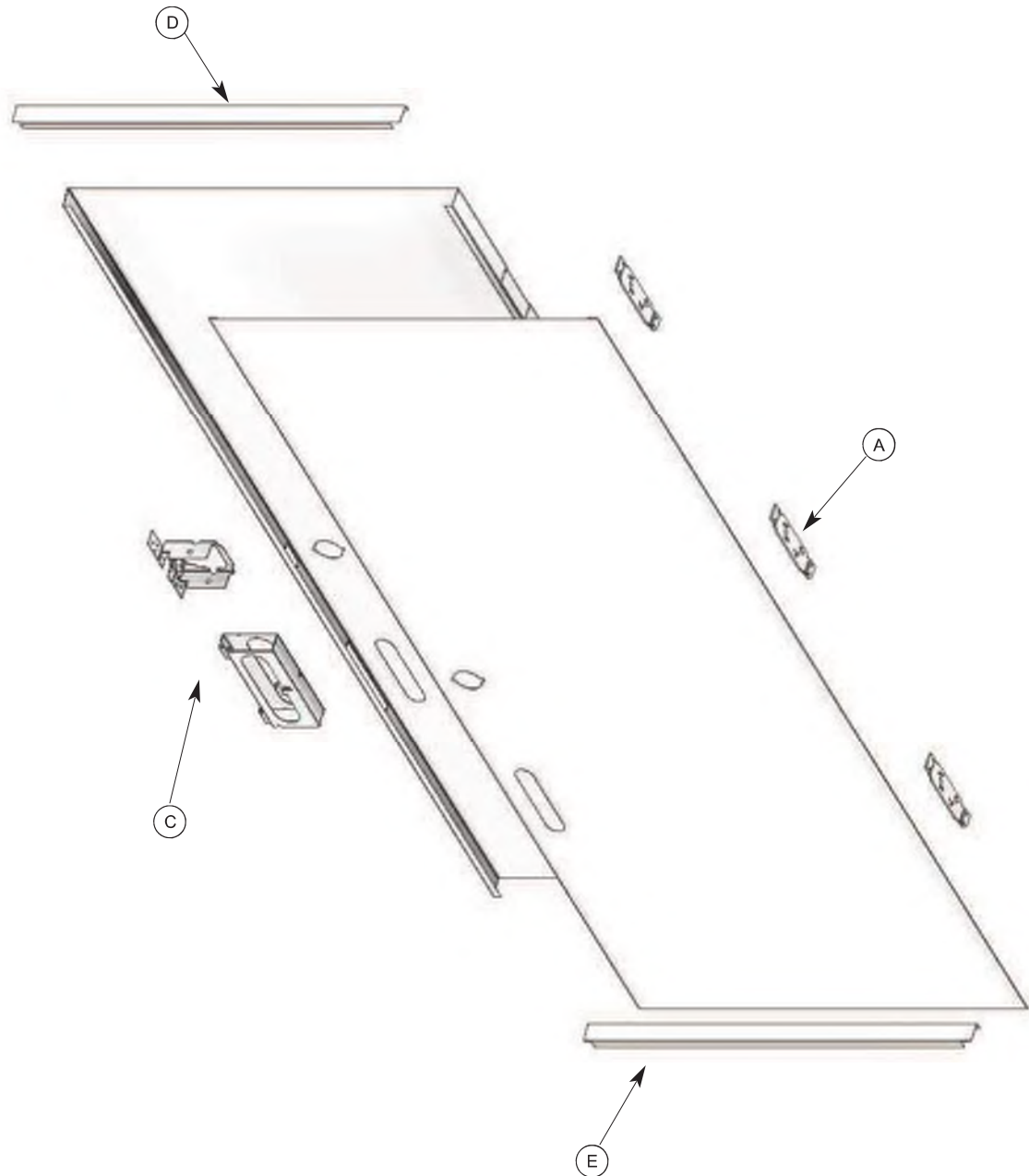
**DP SERIES - SPECIFICATIONS****TECHNICAL DATA  
SHEET No. 101a**

- I. DP Series Doors as manufactured by Republic Doors and Frames, McKenzie, TN 38201 have been tested or adhere to the criteria set forth by the following published standards:
- A. ANSI A250.8-1998 (SDI 100) - Recommended Specifications -Standard Steel Doors & Frames; Steel Door Institute.
  - B. ANSI A250.4 - Test Procedure & Acceptance Criteria for Physical Endurance for Steel Doors & Hardware Reinforcings.
  - C. SDI 111 - Recommended Standard Details - Steel Doors & Frames. D. SDI 112 - Zinc Coated Standard Steel Doors and Frames.
  - E. SDI 113 - Test Procedure and Acceptance Criteria for Acoustical Performance for Steel Door and Frame Assemblies.
  - F. ASTM A366/A366M - Standard Specification for Steel, Sheet, Carbon, and High Strength, Low Alloy, Hot Rolled and Cold Rolled, General Requirements.
  - G. ASTM A568/A568M - Standard Specification for Steel, Sheet, Carbon and High Strength, Low-Alloy, Hot Rolled and Cold Rolled, General Requirements For.
  - H. ASTM A569/A569M - Standard Steel Specification for Steel, Carbon (0.15 Maximum Percent), Hot Rolled Sheet and Strip Commercial Quality.
  - I. ASTM A591/A591M - Standard Steel Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
  - J. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanized) by Hot Dipped Process.
  - K. ANSI A151.1 - Performance Test for Steel Doors, Hinge, Lock and Exit Device Reinforcing.
- II. Door Construction
- A. Doors are either 20 or 18 gage steel. Door design is a pan and lid construction. The lid has a flattened hemmed edge that is projection welded to the pan.
  - B. Top Channel will be 16 gage, flush with the top of the door and will be projection welded on maximum 2-1/2" centers to each face sheet.
  - C. Bottom Channel will be 16 gage, inverted and will be projection welded on maximum 2-1/2" centers to each face sheet.
  - D. Hinge Side - Square edge design with cutouts in pan. 7 gage hinge reinforcements welded in at each cutout.
  - E. Lock Side - Beveled edge design. Mortise lock reinforcements are 14 gage. Cylindrical lock reinforcements are 16 gage.
  - F. Cores: (Per ASTM C1363)
    - 1. Standard - 3/4" cell honeycomb with a "U" factor of .59.
    - 2. Optional Cores- 1 lb. density expanded Polystyrene per with a "U" factor of .41.
- III. Door Finish
- Doors will be cleaned and phosphatized with one coat of force-cured grey primer applied in accordance with ANSI A224.1-1990 or ASTM specification B117 for finishes capable of passing 120 hour salt spray test and a 240 hour humidity test in compliance with ASTM D1735.

**SDI Classifications:**

- Level 1 Model 1 (Standard Duty, minimum 20 gage, hollow steel composite)
- Level 2 Model 1 or 2 (Heavy Duty, minimum 18 gage, hollow steel composite)

Revised 7/15



Beveled 1/8" in 2"  
(lock side only)

**NOTE:**  
See Details on  
back of page.

Revised 7/15

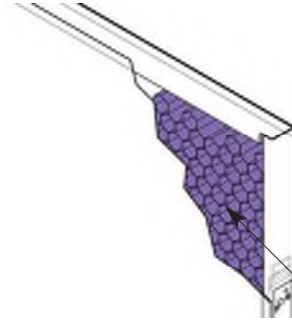


HINGE EDGE OF PAN

A



7 gage reinforcement at hinge locations  
Shown: 4-1/12" hinges on 1-3/4" doors



3/4" Cell  
Honeycomb Core  
U Factor of .59  
(Per ASTM C1363)

Other cores available  
please specify.

C

LOCK EDGE OF PAN



14 gage mortise lock reinforcement  
with provisions for Gov't Series 86  
mortise lockset and ANSI A115.1  
lock front (1-1/4" x 8")

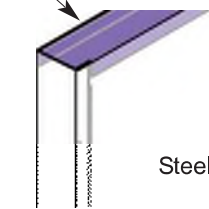


16 gage steel  
cylindrical lock  
reinforcement with  
provisions for  
Gov't Series 160  
or 161 cylindrical  
lock sets (2-3/4"  
backset) and  
ANSI A115.2 lock  
front (1-1/8" x 2-1/4")

D

Continuous 16 gage  
steel channel  
(standard flush)

TOP CHANNEL



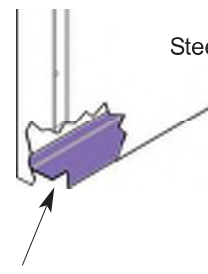
Steel Panel

14 gage closer reinforcement when requested;  
12 gage optional

E

BOTTOM CHANNEL

Steel Panel



Continuous 16 gage  
steel channel  
(standard inverted)

Approximate depth 9/16"

### UNIVERSAL FRAMES - ME SERIES/MITERED

ME Series Mitered Frames shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

**Thickness** - Made for two basic door thicknesses: 1-3/8" or 1-3/4"

**Gages** - 16 or 14 (12 gage available with coped bolted corner connections)

**Faces** - 1" to 4"

**Standard Rabbets** - 1-3/8" (actual dimension 1-9/16"); 1-3/4" (actual dimension 1-15/16"). Rabbet dimension is 3/16" greater than the door thickness.

**Stop** - 5/8" standard - (3/4" available)

**Closer Reinforcement (Optional)** - 1-3/8" x 14" x 12 gage plate; 12 gage Snap-In, or 12" long x 12 gage sleeve.

**Size Availability** - Maximum Size 5'0" x 10'0" Single; Maximum Size 10'0" x 10'0" Double.

**Label Range** - Consult Label Section. (Embossed UL Listing Marks shall be provided on all stock frames.)

**Universal Standard/Heavy Weight Hinge** - Frames for 1-3/4" doors shall have a 9 gage steel hinge reinforcement plate, projection welded with provisions for 4-1/2" x 4-1/2" template hinges. Hinge plate is designed to be modified to accept a heavy weight hinge by removing four projections. Frames for 1-3/8" doors shall have a 11 gage steel hinge reinforcement plate, projection welded with provisions for 3-1/2" x 3-1/2" standard weight template hinges. (Optional - 8" or 10", 7 gage reinforcement)

**Strike Prep** - Frames for 1-3/4" doors shall have a 14 gage steel strike reinforcement plate, extruded and formed to the equivalent of 10 gage, projection welded with provisions for Universal ANSI A115.1 or ANSI A115.2 strike (4-7/8"). Frames for 1-3/8" doors shall have a 14 gage steel strike reinforcement plate, extruded and formed to the equivalent of 10 gage projection welded with provision for Universal ANSI A115.3 strike (2-3/4".)

**Hinge Backset** - 5/16"

**Backbend** - 7/16"

**Anchors** - Sill anchors are included with all ME frames (either integral or welded on sill anchor). All other anchors must be ordered separately.

**Silencer Prep** - 9/32" dia. holes shall be provided as standard on strike jambs and double headers, (3 per strike jamb and 2 per double head). Mutes are not supplied and must be ordered separately.

**Double Heads** - Double heads are undersized 1/16" (except for cased open heads, which are nominal).

**Mortar Guards** - Mortar guards of 26 gage steel shall be welded to each hinge and strike reinforcement plate.

**Profiles** - Equal Rabbet, Unequal Rabbet, Single Rabbet, Double Egress, Cased Opening.

**Shipping** - Frames are shipped as components, bundled as one pair of jambs (hinge & strike for single openings or 2 hinge jambs for double openings). Heads are packaged separately.

**Handing** - Frames are handed.

Revised 8/09

### ME SERIES - SPECIFICATIONS

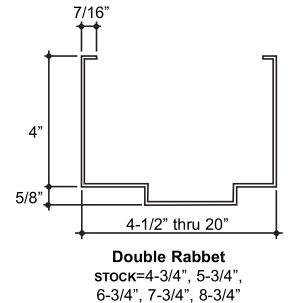
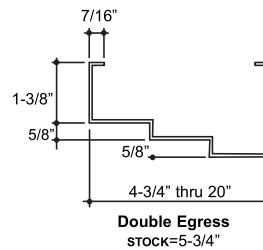
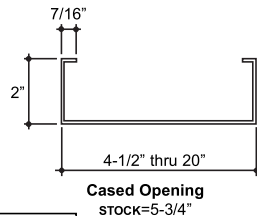
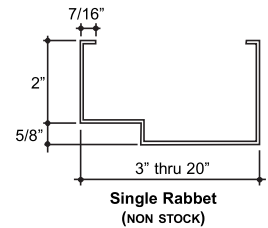
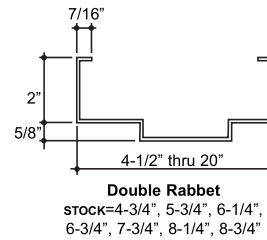
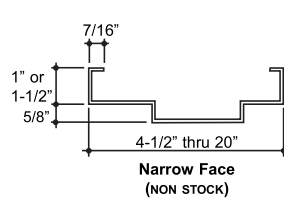
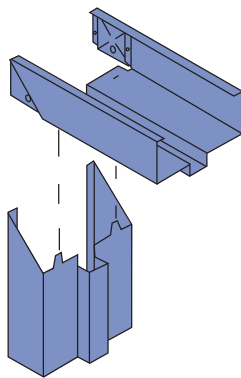
- I. ME Series Mitered Frames as manufactured by Republic Doors and Frames, McKenzie, TN 38201 have been tested or adhere to the criteria set forth by the following published standards:
  - A. ANSI A250.8-1998 (SDI 100) - Recommended Specifications -Standard Steel Doors & Frames; Steel Door Institute.
  - B. SDI 111 - Recommended Standard Details - Steel Doors & Frames.
  - C. SDI 112-97 - Zinc Coated Standard Steel Doors and Frames.
  - D. SDI 113-79 - Test Procedure and Acceptance Criteria for Acoustical Performance for Steel Door and Frame Assemblies.
  - E. ASTM A 366/A 366M - Standard Specification for Steel, Sheet, Carbon, and High Strength, Low Alloy, Hot Rolled and Cold Rolled, General Requirements.
  - F. ASTM A 568/A 568M - Standard Specification for Steel, Sheet, Carbon and High Strength, Low-Alloy, Hot Rolled and Cold Rolled, General Requirements.
  - G. ASTM A 569/A 569M - Standard Steel Specification for Steel, Carbon (0.15 Maximum Percent), Hot Rolled Sheet and Strip Commercial Quality.
  - H. ASTM A 591/A 591M - Standard Steel Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Mass Applications.
  - I. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanized) by Hot Dipped Process.
  - J. NFPA 80 - Standard for Fire Doors and Windows.
  - K. A250.4 1994 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcings.
- II. Frame Construction
  - A. Frames shall be formed from 18,16,14 or 12 gage cold-rolled, hot-rolled or galvanized steel. (A60 galvanealed standard)
  - B. Frames shall be either knocked-down or have corners welded and ground smooth. Corners shall have aligning tabs and slots for secure and easy interlocking of jambs to head. (12 gage frames shall have coped bolted corner connections.)
  - C. Frames shall be provided with 9/32" silencer preparation, (3) per strike jamb and (2) per head for double openings, for field application after finish painting.
  - D. Frames for 1-3/4" doors shall have 9 gage steel universal hinge tap plate, projection welded, with provisions for 4-1/2" x 4-1/2" template hinges, and 14 gage steel strike reinforcement plate, extruded and formed to the equivalent of 10 gage, projection welded, with provision for Universal ANSI A115.1 or ANSI A115.2 strike. Mortar guards of 26 gage steel shall be welded to each hinge or strike reinforcing plate.
  - E. Frames for 1-3/8" doors shall have 11 gage steel hinge reinforcement plates, projection welded, with provisions for 3-1/2" x 3-1/2" template hinges, and 14 gage steel strike reinforcement plate, projection welded, with provision for cylindrical ANSI A115.3 strike.
  - F. Reinforcement for surface closer shall be 12 gage steel. Proper reinforcement shall be provided for other hardware when required.
- III. Frame Finish

Frames will be cleaned and phosphatized with one coat of force-cured grey primer, that meets or exceeds ANSI A224.1-1990 and ASTM specification B117 for finishes. (Capable of passing 120 hour salt spray test and a 240 hour humidity test in compliance with ASTM D1735.)

Revised 8/08

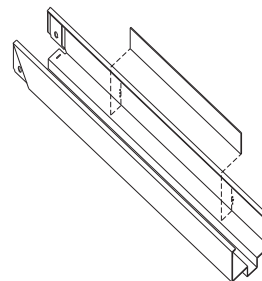
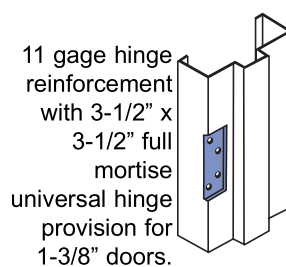
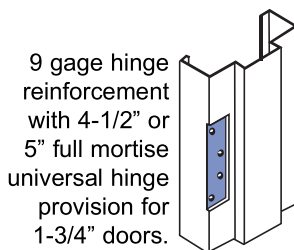


### ME SERIES - FRAME CONSTRUCTION

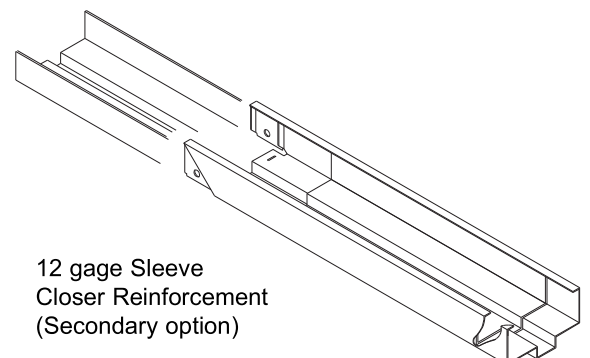
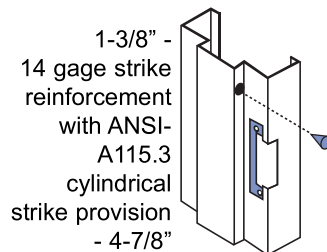
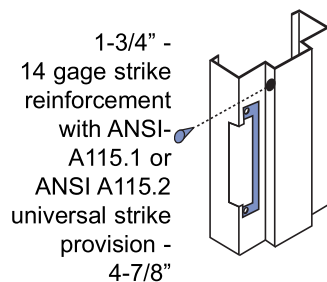
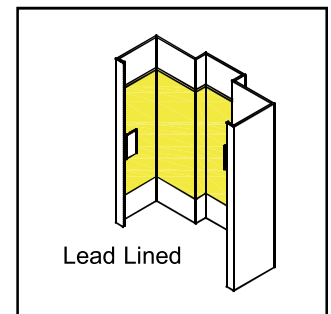


Rough Opening Required for  
Butted Universal Frame  
Door Width Opening + 2 Times Face Dimension + 1/2"  
Door Height Opening + Face Dimension + 1/4"

### HARDWARE PREPARATION



12 gage Flat Plate  
Closer Reinforcement  
(Primary option)



12 gage Sleeve  
Closer Reinforcement  
(Secondary option)

Revised 8/09

### ME SERIES - BULLET RESISTANT FRAME - LEVELS 1 THRU 8

ME Series Bullet Resistant Mitered Frames shall be as manufactured or furnished by Republic Doors and Frames, McKenzie, Tennessee 38201.

**Thickness** - Made for standard door thickness 1-3/4"

**Gages** - 14 gage only

**Faces** - 1" to 4"

**Standard Rabbits** - 1-3/8" (actual dimension 1-9/16"); 1-3/4" (actual dimension 1-15/16"). Rabbet dimension is 3/16" greater than the door thickness.

**Stop** - 5/8" standard

**Closer Reinforcement (Optional)**- 1-3/8" x 14" x 12 gage plate; 12 gage Snap-In, or 12" long x 12 gage sleeve.

**Size Availability** - Maximum Size 5'0" x 10'0" Single; Maximum Size 10'0" x 10'0" Double.

**Universal Standard/Heavy Weight Hinge** - Frames shall have 9 gage steel hinge reinforcement plate, projection welded for provisions for 4-1/2" x 4-1/2" and 5" template hinges or reinforced for continuous hinges.

**Strike Prep** - Frames shall have a 14 gage steel strike reinforcement plate, extruded and formed to the equivalent of 10 gage, projection welded with provisions for Universal ANSI A115.1 or ANSI A115.2 strike (4-7/8").

**Hinge Backset** - 5/16"

**Backbend** - 7/16"

**Anchors** - Masonry wire, tee and existing opening punch and dimple. Sill anchors are included with all ME frames (either integral or welded on sill anchor).

**Silencer Prep** - 9/32" dia. holes shall be provided as standard on strike jambs and double headers, (3 per strike jamb and 2 per double head). Mutes are not supplied and must be ordered separately.

**Double Heads** - Double heads are undersized 1/16".

**Mortar Guards** - Mortar guards of 26 gage steel shall be welded to each hinge and strike reinforcement plate.

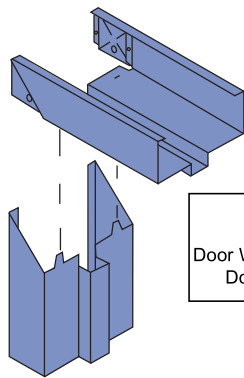
**Profiles** - Equal Rabbet, Unequal Rabbet, Single Rabbet.

**Handing** - Frames are handed.

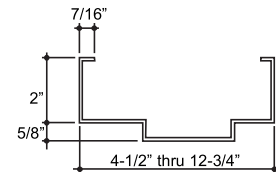
**Special Requirements** - Frames must be welded - Masonry frames fully grouted do not require armor plating.

Revised 8/09

### ME SERIES - BULLET RESISTANT FRAME - LEVEL 1 CONSTRUCTION

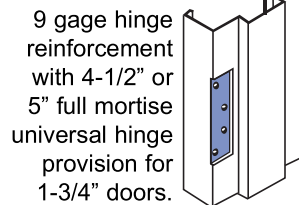


Rough Opening Required for  
Butted Universal Frame  
Door Width Opening + 2 Times Face Dimension + 1/2"  
Door Height Opening + Face Dimension + 1/4"

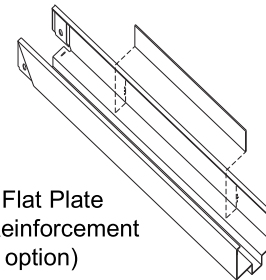


**Double Rabbet**  
Stock=4-3/4", 5-3/4", 6-1/4",  
6-3/4", 7-3/4", 8-1/4", 8-3/4"

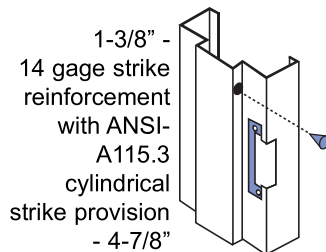
### HARDWARE PREPARATION



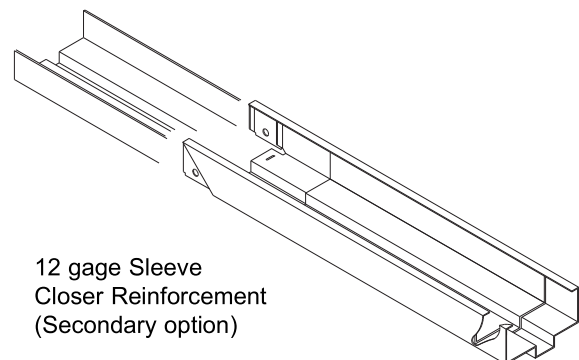
9 gage hinge  
reinforcement  
with 4-1/2" or  
5" full mortise  
universal hinge  
provision for  
1-3/4" doors.



12 gage Flat Plate  
Closer Reinforcement  
(Primary option)



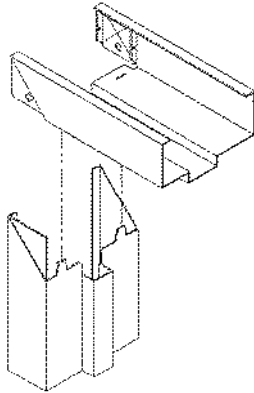
1-3/8" -  
14 gage strike  
reinforcement  
with ANSI-  
A115.3  
cylindrical  
strike provision  
- 4-7/8"



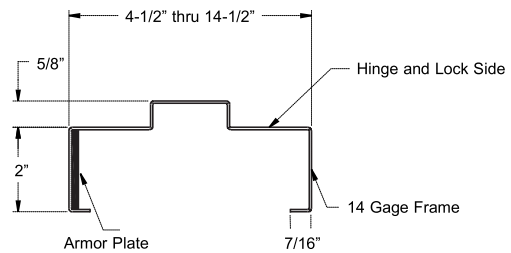
12 gage Sleeve  
Closer Reinforcement  
(Secondary option)

Revised 6/05

### ME SERIES - BULLET RESISTANT FRAME - LEVEL 2 & 3 CONSTRUCTION



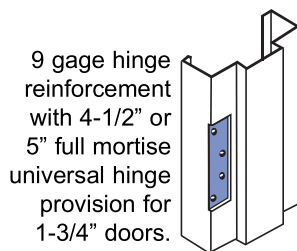
Rough Opening Required for  
Butted Universal Frame  
Door Width Opening + 2 Times Face Dimension + 1/2"  
Door Height Opening + Face Dimension + 1/4"



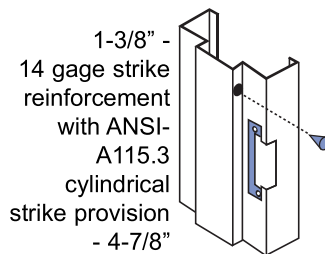
Double Rabbet

Note: Masonry frames fully grouted  
do not require armor plating.

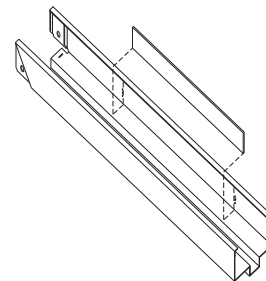
### HARDWARE PREPARATION



9 gage hinge  
reinforcement  
with 4-1/2" or  
5" full mortise  
universal hinge  
provision for  
1-3/4" doors.



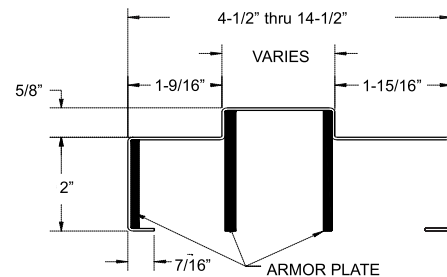
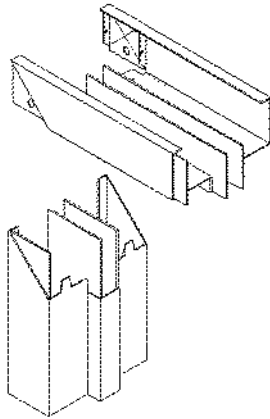
1-3/8" -  
14 gage strike  
reinforcement  
with ANSI-  
A115.3  
cylindrical  
strike provision  
- 4-7/8"



12 gage Flat Plate  
Closer Reinforcement  
(Optional)

Revised 8/09

### ME SERIES - BULLET RESISTANT FRAME - LEVEL 4 THRU 8 CONSTRUCTION

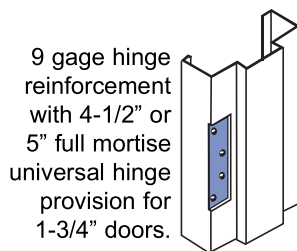


Double Rabbet

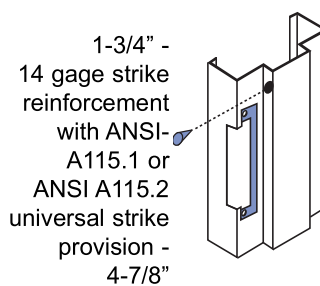
Rough Opening Required for  
Butted Universal Frame  
Door Width Opening + 2 Times Face Dimension + 1/2"  
Door Height Opening + Face Dimension + 1/4"

NOTE: Masonry frames fully grouted do not require  
armor plating.

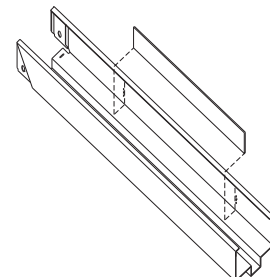
### HARDWARE PREPARATION



9 gage hinge  
reinforcement  
with 4-1/2" or  
5" full mortise  
universal hinge  
provision for  
1-3/4" doors.



1-3/4" -  
14 gage strike  
reinforcement  
with ANSI-  
A115.1 or  
ANSI A115.2  
universal strike  
provision -  
4-7/8"

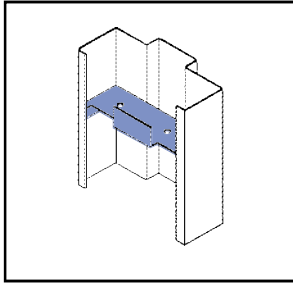


12 gage Flat Plate  
Closer Reinforcement  
(Optional)

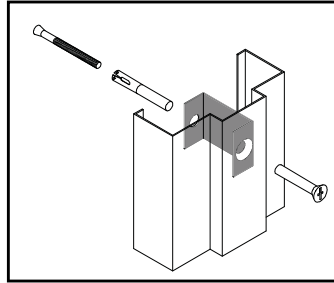
Revised 8/09



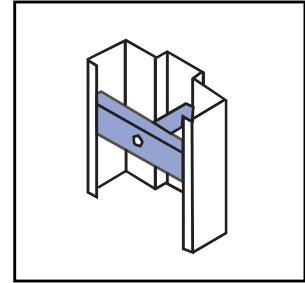
### ME SERIES - ANCHOR DETAILS



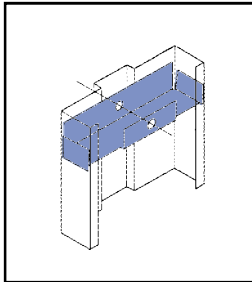
Steel Stud  
Anchor



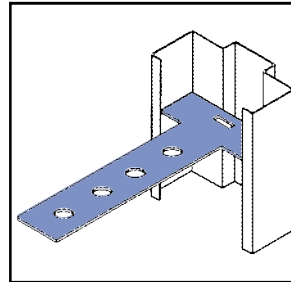
Prepared Opening  
Anchor



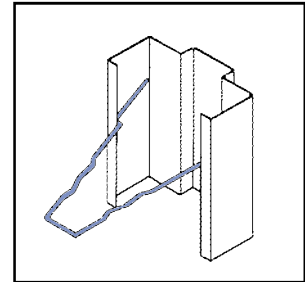
Twist in Prepared  
Opening Anchor



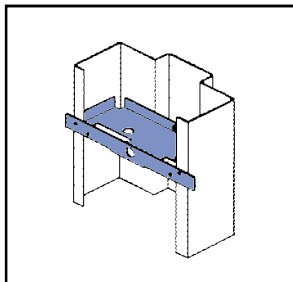
Snap-in Prepared  
Opening Anchor



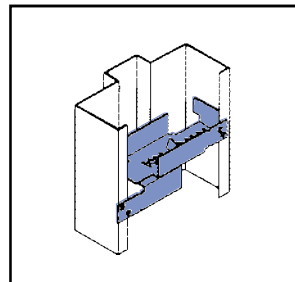
Tee Masonry  
Anchor



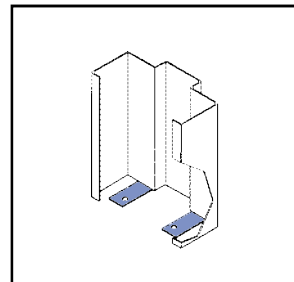
Wire Masonry  
Anchor



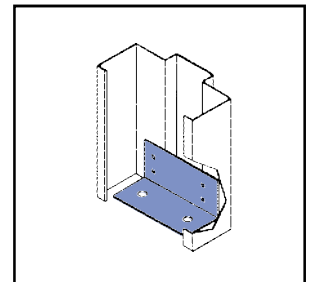
Wood Stud  
Anchor



Adjustable Wood/Steel Stud  
Anchor (Assembled)



Integral Sill Anchor  
(5-3/4 Stock Only)



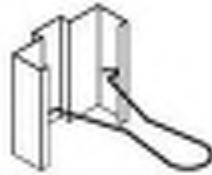
One Piece Sill Anchor  
Welded On

Revised 8/08

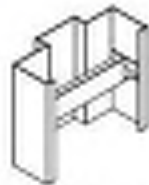
## Manufacturer's Installation Instructions for Correct Location and Attachment of Anchors



Masonry "T"



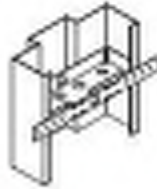
Masonry Wire



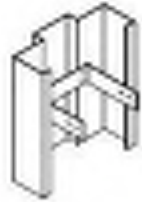
Steel Stud



Existing Wall



Multi-purpose (CSA)



Wood Stud

A slip-in anchor must be used for each 30 inches of jamb height or fraction thereof. On the hinge jamb, each anchor must be located immediately above or below each hinge reinforcement. On the strike jamb, anchors must be located directly opposite the anchors on the hinge jamb.

Base anchors are not required on frames provided with expansion shell (existing wall) anchors. All other frame-anchor combinations must have a welded-in base anchor.

An additional jamb anchor must be added to frames using expansion shell anchors.

Anchor attachment methods may be slip-in force fit, spot welded, or arc welded to frame in proper locations.



CENTURY ARCHITECTURAL HARDWARE

29220 LYON OAKS DR.

WIXOM

MI

48393

Tel: 248-348-6500

ELEVATOR PENTHOUSE

Control No.1145

1145

Submitted By: JASON KOCEMBO

**Finish Hardware Catalog Cuts**

**Section 087100**

**February 24, 2021**

PROJECT

Name: ELEVATOR PENTHOUSE  
Address: 66 ADELAIDE  
DETROIT MI 48201  
Phone:  
Superintendent: TOM CARLSON Engineer:  
810-845-4854 TOM.CARLSON@EANDLGROUP.COM

CONTRACTOR

Name: E & L CONSTRUCTION GROUP  
Address: P.O. BOX 418  
FLINT MI 48501  
Phone: 810-744-4300  
Contact: TODD FINLEY

ARCHITECT

Name: WAH YEE ASSOCIATES & PLANNERS  
Address: 42400 GRAND RIVER AVE STE #200  
NOVI MI 48375  
Phone: 248-489-9160  
Project Number: 5122

HARDWARE SUPPLIER

Project Manager: JASON KOCEMBO

ELEVATOR PENTHOUSE



CENTURY ARCHITECTURAL HARDWARE  
29220 LYON OAKS DR.

WIXOM MI 48393  
248-348-6500 Fax:

Control No.1145  
1145

Submitted By: JASON KOCEMBO

February 24, 2021

# 5 Knuckle Full Mortise Hinges

## Heavy Weight Ball Bearing

FBB168 – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting

FBB199 – (ANSI A2111) Brass or bronze – polished and plated or painted

FBB199 (32) – (ANSI A5111) Stainless steel – highly polished

FBB199 (32D) – (ANSI A5111) Stainless steel – satin finish



- For use on heavy doors or doors where high frequency is expected such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Hinges can be furnished as follows:
  - with raised barrel (RB)
  - with electric wires and/or switches (CE and/or CS)
  - with hospital tips (HT)
  - with decorative tips
  - with security studs
  - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze		Steel	
						Lbs.	(Kg)	Lbs.	(Kg)		
4 1/2 x 4 1/2	(114 x 114)	.180	(4.6)	8-12-24 x 1/2	8-12 x 1 1/4	3 ea.	30 ea.	45	(21)	42	(19)
5 x 4 1/2	(127 x 114)	.190	(4.8)	8-12-24 x 1/2	8-12 x 1 1/2	3 ea.	24 ea.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8-12-24 x 1/2	8-12 x 1 1/2	3 ea.	24 ea.	50	(23)	46	(21)
6 x 4 1/2	(152 x 114)	.203	(5.2)	10-1/4-20 x 1/2	10-14 x 1 1/2	3 ea.	24 ea.	63	(29)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10-1/4-20 x 1/2	10-14 x 1 1/2	3 ea.	24 ea.	65	(30)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10-1/4-20 x 1/2	10-14 x 1 1/2	3 ea.	24 ea.	76	(35)	61	(28)
8 x 6"	(203 x 152)	.203	(5.2)	16-1/4-20 x 1/2	16-14 x 1 1/2	3 ea.	12 ea.	57	(26)	51	(23)
8 x 8"	(203 x 203)	.203	(5.2)	16-1/4-20 x 1/2	16-14 x 1 1/2	3 ea.	12 ea.	68	(31)	61	(28)

\* Available in Steel only

Consult factory for other sizes not listed


# Specifications & Certifications

## 8200/R8200/7800 Mortise Locks

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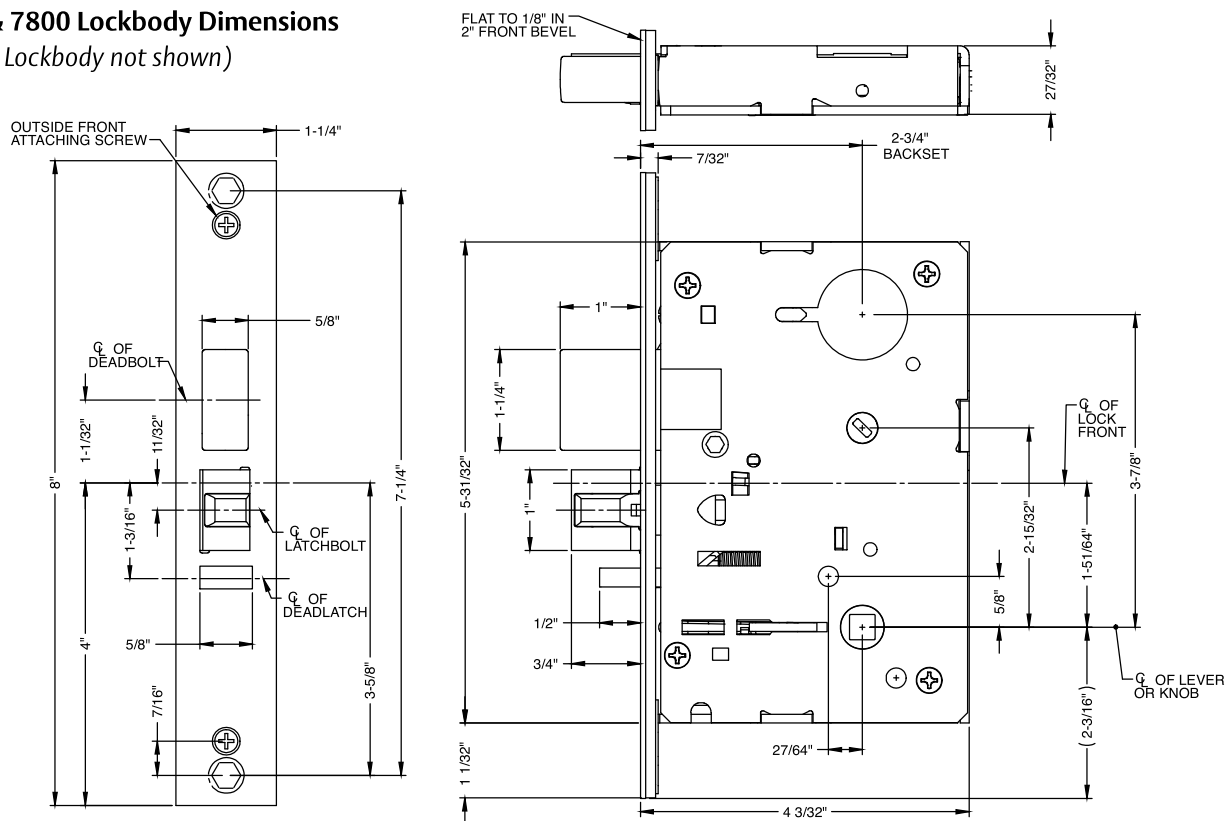
### Certification Compliance

ANSI/BHMA	Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1 with all standard trims. ANSI/ASTM F476-84 Grade 40 with concealed mortise cylinder. <b>Note:</b> LFIC (Removable) Cylinders and SFIC Cylinders do not meet Security Grade 1 requirements.
ADA 	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with American Disability Act; Consult local authorities
UL-cUL	UL and cUL Listed to US and Canadian safety standards for A label 4 x 10 single and 8 x 10 double (3 hour fire door) and lesser class doors, stamped letter F and UL symbol on armored front indicate listing
Positive Pressure	Meets ANSI/UL 10C, Positive Pressure Fire Test of Door Assemblies
California	California State Reference Code (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" (13mm) of door face
Tornado and Hurricane Codes	See page 4

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

### 8200 & 7800 Lockbody Dimensions

(R8200 Lockbody not shown)



**Note:** R8200 and 8200 lockbodies are dimensionally the same except for the through-bolt locations

### Explanation of the 8200/7800 Lockbody types:

Lockbody Type <sup>1</sup>	Trim Available x Lockbody type	Standard 8200 Door Prep	Through Bolted Trim	Multi-function lockbody available	How to order lockbody only
8200	Lever x Rose/Escutcheon	Yes	Yes	Yes	82 x Function x Finish <sup>3</sup>
7800	Knob x Rose/Escutcheon	Yes	Yes	Yes	78 x Function x Finish <sup>3</sup>
R8200	Simpli™ roseless trim	No	Yes <sup>2</sup>	Yes	R82 x Function x Finish <sup>3</sup>
8200 for ALP	ALP Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*
7800 PT	PT Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*

<sup>1</sup> Lockbodies can only be used with the specified trim

<sup>2</sup> Through Bolt locations are different from standard trim, special door prep required

<sup>3</sup> **Note:** Cylinder and trim not included. Outside front, strike and screw pack are included

\* See Price book; **Note:** Outside Fronts, Strikes, Cylinders and Trim are NOT included

# Features

## 8200/R8200/7800 Mortise Locks

# SARGENT®

# ASSA ABLOY

The patented SARGENT Mortise Locks are designed and constructed with high quality components to provide maximum security, performance and durability. These locks represent over a century of innovation and experience in manufacturing hardware and are the industry's benchmark for mortise locks: strong, durable, flexible, innovative and secure.

### Specifications

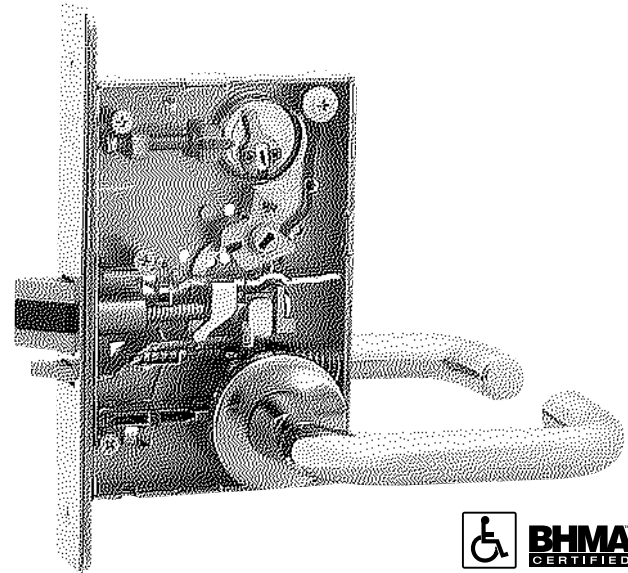
- For Doors 1-3/4" (44mm) thick standard
- Backset 2-3/4" (70mm) only
- Outside Front Plate Brass, bronze or stainless steel. 8" (203mm) x 1-1/4" (31mm), ANSI/BHMA Standard A156.115
- Front adjustable at any angle from flat to beveled 1/8" (3mm) in 2" (51mm)
- Hubs for Knobs/Levers
  - 7800: sintered iron copper infiltrated
  - 8200: cold forged steel
  - R8200: investment cast steel
- Auxiliary Deadlatch is stainless steel and non-handed
- Specify hand on order; easily field reversible (if no hand is specified RH will be provided)
- Strike: Brass, bronze or stainless steel; ANSI Standard; curved lip, non-handed (strike box optional)
- Keys: Two, nickel silver (control key or emergency key must be ordered when required)
- Cylinder: Brass, size #41 (1-1/8") standard (except for Freewheeling, size #46 (1-3/4"))
- Can be masterkeyed or grand masterkeyed. Construction keying available. LA standard keyway
- Stile: 4-1/2" (114mm) minimum stile for 7800/8200/R8200, 4-3/4" (121mm) minimum stile for electrical function locks
- Door Prep: ANSI/BHMA A156.115 or A156.115W modified per template (see template)
- Warranty: 10 year limited warranty, 2 year limited warranty on electrified locks. Warranty limited to replacement of lockbody and/or components

### Maximum Strength & Durability

- Certified to and exceeds ANSI/BHMA A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims
- Exceeds cycle testing requirements by 14 times the ANSI/BHMA A156.13 Grade 1 standard
- Case: 12 gauge heavy duty wrought steel, zinc dichromate plated. Thickness 7/64" (3mm) (.109")
- 1/8" (.125") cold-rolled steel inside front holds lock securely in door
- Heavy duty wrought steel hubs and high carbon steel spring cartridge provide superior strength and cycle life for 8200 locks
- Latchbolt is stainless steel with 3/4" (19mm) projection one-piece, anti-friction reversible latch
- Deadbolt is one-piece hardened stainless steel with 1" (25mm) projection
- Optional 8200 stainless steel hubs for Institutional setting (specify 3- option)
- Patent pending and/or patent [www.assaabloydss.com/patents](http://www.assaabloydss.com/patents)

### Maximum Flexibility

- Fast and easy installation. Lock is easily re-handed without removing parts or opening the lock case



- Aesthetic design. Many escutcheon and lever styles available to match a wide range of styles
- Many standard architectural grade finishes, including Polished Nickel (US14) & Satin Nickel (US15) finishes
- 53 functions including 4 electrical functions. The most in the industry for a broad range of applications
- Versatile. Offered for door thicknesses ranging from 1-3/8" (35mm) to 6" (152mm)
- Available with vandalism deterrent trim and/or secure fastener options Torx® and spanner screws for high abuse conditions
- Available with push/pull trim, perfect for hospital applications

### Innovation

- First in the industry to offer a multi-functional lockbody that embodies 8 functions in 1 lockbody
- Easy operation. Only 30° of lever rotation required to retract latchbolt
- Lever springs contained inside of the lock case for easier installation
- SARGENT's revolutionary MicroShield® available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications featuring ElectroLynx® quick connectors

### Security

- Multiple security trim options available: free-wheeling, security escutcheon and anti-vandal pull trim (patent pending)
- Security key systems available (Degree, Signature, Keso, Keso F1, & XC)

# Coastal Series™ & Standard Levers

## 8200 Mortise Locks

**SARGENT®**

**ASSA ABLOY**

### Coastal Series (8200 & R8200 Series)

#### Features

- All levers meet ADA compliance for national codes
- Not available with CO and TO roses
- Levers are solid cast brass
- Finishes available – 3, 4, 9, 10, 10B, 10BE, 10BL, 14, 15, 20D, 26, 26D, BSP
- All lever height (+/- 1/16") measurements represent total distance from door face

<p>G - Gulfport™ (Handed)</p>			<p>S - Sanibel™ (Handed)</p>		
<p>R - Rockport™</p>			<p>Y - Yarmouth™ (Handed)</p>		

### Standard Levers (8200 Series Only)

#### Features

- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face

<p>A (Handed)</p>			<p>J</p>		
<p>B</p>			<p>L</p>		
<p>E</p>			<p>P</p>		
<p>F</p>			<p>W</p>		

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# Coastal Series™ & Standard Trim

8200/R8200/7800 Mortise Locks

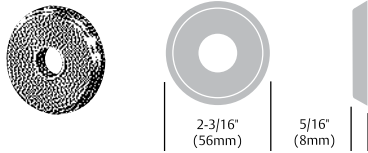
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## Coastal Series Roses & Escutcheons

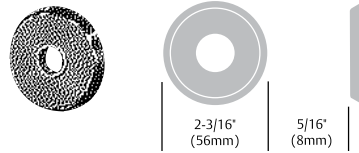
### TR Traditional Rose

- Dual radii edge



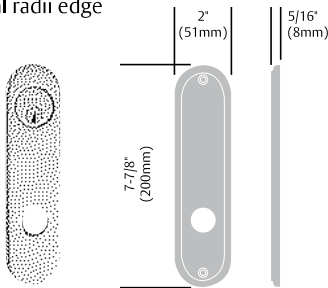
### CR Contemporary Rose

- Beveled edge



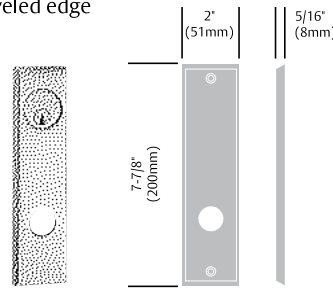
### TE Traditional Escutcheon

- Dual radii edge



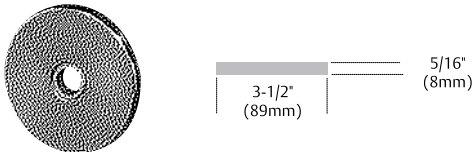
### CE Contemporary Escutcheon

- Beveled edge

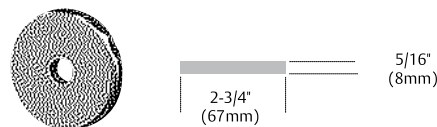


## Standard Roses

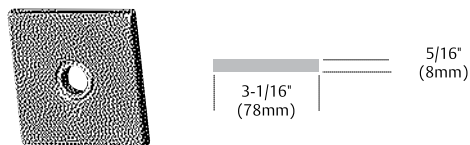
### L Rose



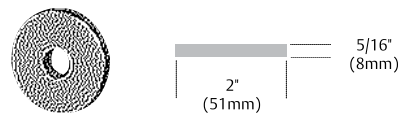
### O Rose



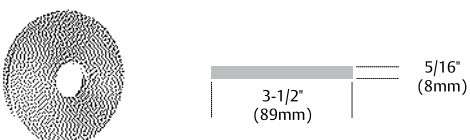
### E Rose



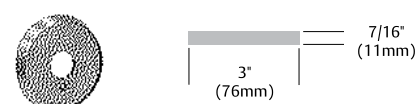
### LN Rose



### SL Rose



### BH Rose





# Functions & Descriptions

## 8200/R8200/7800 Mortise Locks

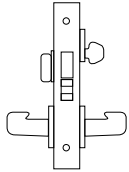
# SARGENT®

# ASSA ABLOY

### Single Cylinder with Deadbolt

#### ◆\*‡24 Room Door

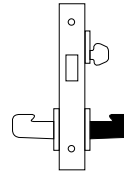
8200, R8200 & 7800



- Key outside or thumbturn inside retracts and projects deadbolt
- Trim either side retracts latchbolt
- Latchbolt & deadbolt operate independently of each other
- **ANSI F21**

#### 30 Dummy Trim Deadlock

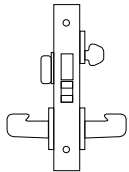
8200, R8200 & 7800



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Trim inside always retracts deadbolt
- Trim outside is always locked
- Same as 28 Function without a thumbturn

#### \*25 Dormitory or Exit

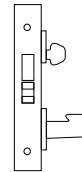
8200, R8200 & 7800



- Key outside or thumbturn inside retracts and projects deadbolt
- Trim from either side retracts latchbolt, when the deadbolt is in the retracted position
- Trim outside is locked, when the deadbolt is projected
- When deadbolt is projected, Trim inside retracts latchbolt and deadbolt simultaneously, unlocking outside trim
- **ANSI F13**

#### ◆\*35 Storeroom

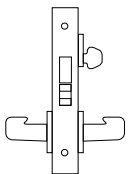
8200, R8200 & 7800



- Key outside retracts and projects deadbolt
- Trim outside retracts latchbolt, except when deadbolt is projected
- No inside trim or cylinder

#### ◆27 Closet or Storeroom

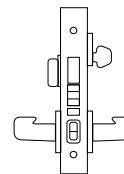
8200, R8200 & 7800



- Key outside retracts and projects deadbolt
- Trim from either side retracts latchbolt
- Same as 24 function without thumbturn
- Latchbolt & deadbolt operate independently of each other

#### ‡43 Apartment Corridor Door

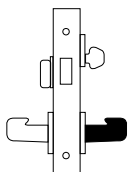
8200, R8200 & 7800



- Key and thumbturn both retract & project the deadbolt
- Trim outside is locked by toggle or projecting deadbolt
- Trim outside is unlocked by toggle only
- Key retracts both latchbolt and deadbolt, trim outside remains locked
- Trim inside always retracts latchbolt (and deadbolt simultaneously), trim outside remains locked
- Auxiliary deadlatch
- **ANSI F20**

#### 28 Dummy Trim Deadlock

8200, R8200 & 7800



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Trim inside always retracts deadbolt
- Trim outside is always locked
- Thumbturn inside retracts and projects deadbolt

\*8200 Available with Freewheeling Trim

‡ 7800 Available with Push/Pull Trim



If shaded, knob or lever rigid at all times

◆ **CAUTION:** Not recommended for use on any door used for Life Safety egress

# How To Order, Finishes, Packaging & Security Screw Chart

## 8200/R8200/7800 Mortise Locks

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### How to Order 8200, R8200 & 7800 Mortise Locks

10- Options*	82 Series	71 Function	12VDC Voltage	TR Roses/ Escutcheons	MJ Trim	15 Finish	RHR Hand
For all available options see Pages 36-38	82 R82 78 Mortise Lock	Pages 21-27 for Details	12VDC 24VDC	Pages 9-14 (With R8200, specify "R" for roseless design)	Levers — Pages 7-8, 10 FW Trim — Page 15, Push/Pull Trim — Page 16-17, Knobs — Page 20	Page 41	RHR
			Must be specified for Functions 70, 71, 72 & 73				RH
							LHR
							LH

\* Multiple options can be selected

### Finishes

Standard Levers & Knobs	BHW Trim	BHL Trim	BHD Trim	Studio Collection Lever Trim	8200 Coastal Series™ Trim and 8200 Freewheeling Trim	7800 Push/Pull Trim	Description	ANSI/BHMA
03				03	03	03	Polished brass, clear coated	605
04				04	04	04	Satin brass, clear coated	606
09				09	09	09	Polished bronze, clear coated	611
10				10	10	10	Satin bronze, clear coated	612
10B				10B	10B	10B	Oxidized bronze, oil rubbed	613
10BE				10BE	10BE		Dark oxidized satin bronze, equivalent	(613E)
10BL				10BL	10BL		Oxidized satin, bronze, clear coated	614
14				14	14		Polished nickel, clear coated	618
15 *				15 *	15 *		Satin nickel, clear coated	619
20D				20D	20D		Statuary dark bronze, clear coated	624
26				26	26		Polished chrome	625
26D *				26D *	26D *		Satin chrome	626
32	32	32	32	32		32	Polished stainless steel	629
32D *	32D *	32D *	32D *	32D *		32D *	Satin stainless steel	630
BSP				BSP	BSP		Black Suede Powder Coat	—

\* MicroShield® — optional designate SG- option (Available on 15, 26D, and 32D Finishes only)  
Split Finishes — specify outside finish first, then inside finish example: US26D (outside) / US04 (inside)

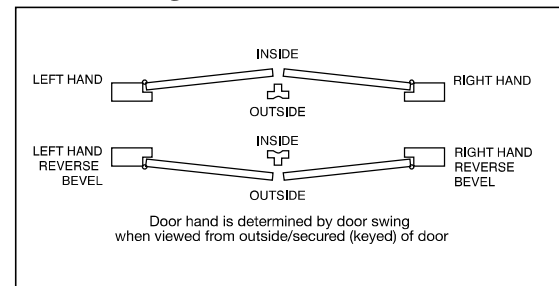
### 6 Lobe & Spanner Bit packs

Part Number	Descriptions
82-3855	6 Lobe Bit Pack 6 bits
82-3856	(sizes- T8, T9, T10, T15, T20, T25, T27) 9/32" Driver Spanner Bit Pack 5 bits (sizes- 6, 8, 10, 12, 14) 1/4" Driver

### Packaging

8205 x LNL	approx. 6.1 lbs. (2.7kg)/box	6 boxes/case
8205 x WTL	approx. 7.2 lbs. (3.1kg)/box	6 boxes/case

### Door Handing



\* Multiple options available  
Wrought Box Strike optional — must order with lockset as WBS- option

## General Information

### 1431 Series Powerglide®

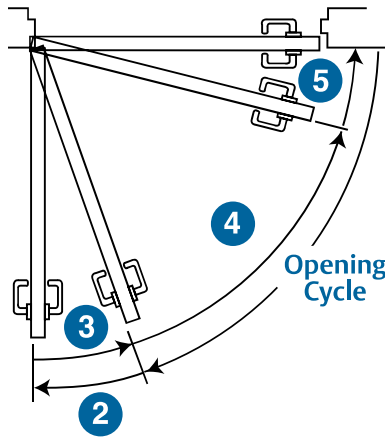
#### 1 Closer Spring Adjustment (not shown)

- Effects the entire cycle of the door closer movement
- Used to size closer for application requirements
- Determines the amount of force with which the door closes and the amount of force required to open the door
- Adjustable to compensate for door size and draft conditions

#### 2 Backcheck valve

- At approximately 70° of the open cycle, the Backcheck Valve begins to slow the door's motion
- Prevents the door from slamming into the door's stop
- Valve is used to control the intensity of the Backcheck
- **Note:** A Positive stop is required, Backcheck cannot be used as a stop

#### Door Closer Cycle



#### 3 Delayed action valve (Optional)

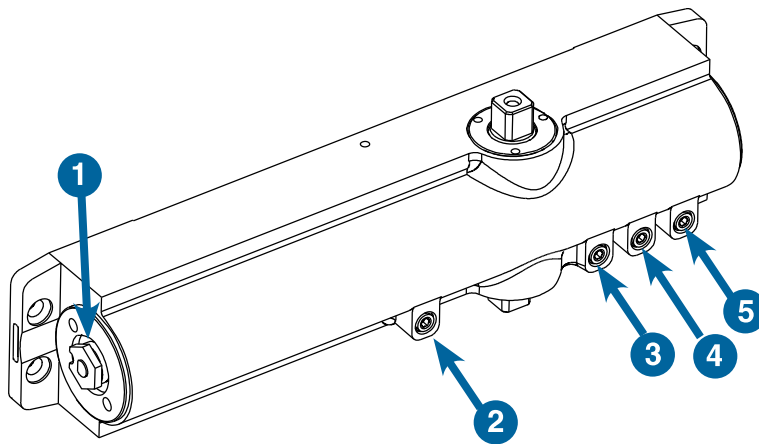
- Holds the door in the open position momentarily
- 20 second minimum hold open delay
- The feature is available for all applications and arms
- Beneficial when moving carts or objects thru door opening and ADA applications

#### 4 Closing speed valve

- Controls how fast the door closes to approximately 8" from the closed position

#### 5 Latching speed valve

- Controls the speed of the door during the final 8" of door swing
- The force the door closes with is controlled by the Closer spring
- **Note:** This adjustment is critical for door latching



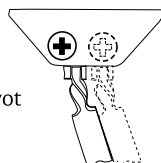
### ANSI Standards

ARM	TYPE	ARM	TYPE
O	CO2011	PF9	CO2101
P9	CO2021	P10	CO2021
H	CO2051	PS/CPS	CO2021
PH9	CO2061	CPSH/PSH	CO2061

All are certified ANSI types including options PT4 A, B, D, E, F, G, H

### Arm Leverage Adjustment

Closers using "O" arms have the provision to increase closing power by 15% by adjusting foot pivot



### How to Select the Proper Closer

#### Things to Consider

##### 1. Size and Weight of Door

The 1431 Door Closer is non-sized so that closing force can be adjusted in the field to accommodate various door sizes and weights.

##### 2. Interior Application

The standard application is the most efficient in terms of power and control.

##### 3. Exterior Application

The top jamb, parallel arm application should be used. Exterior doors require greater closing forces because of draft conditions. Always place the closers out of the weather.

##### 4. Degree of Opening

Proper arm and position on the door is most important to permit the door to open far enough to allow adequate traffic flow.

##### 5. Function

Closers are available with hold-open or positive stop arms.

##### 6. Special Condition

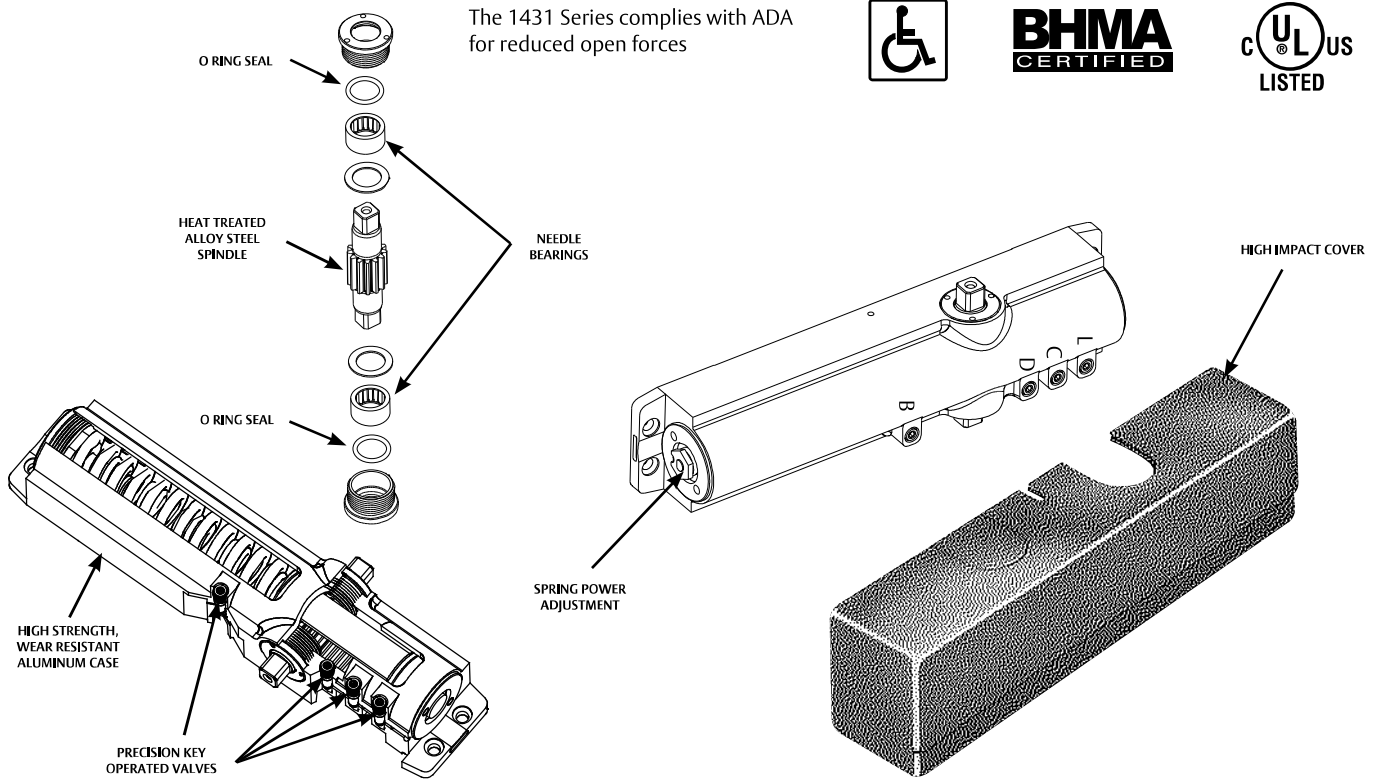
Consult factory when special hinges, overhead holders or other specialized hardware is used.

# Features and Benefits

## 1431 Series Powerglide®

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**ASSA ABLOY**



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### Features

- Exceeds 15 Million cycles
- Certified ANSI/BHMA A156.4 Grade 1
- UL 10C listed for positive pressure fire test
- UL / cUL listed for use on fire rated doors
- 25 year limited warranty
- User friendly versatile mounting applications permit standard, top jamb, parallel and track installations
- Self sticking templates supplied for most applications
- Adjustable spring power allows 1431 closers a size range of 1 through 6. They are adjusted to size 3 before leaving the factory
- One door closer body for all applications. All 1431 are non-handed
- Meets ADA requirements in all applications, except Push Side Track application (except track)
- High impact non-corrosive plastic covers with two machine screws standard, metal covers and lead lined are optional
- All weather fluid allows closer to operate effectively in extreme temperatures without readjustment
- 1-1/2" diameter piston for superior door control
- Standard pressure relief valves for both opening and closing cycles protect the door and frame from damage caused by abuse
- Retrofits existing SARGENT 1230/1231 Series Closer installations

### Heavy Duty Construction

- Heat treated full rack and pinion for high strength and wear resistance
- Heavy duty one piece high silicon content aluminum alloy body provides corrosion resistance, superior strength and wear resistance
- 1/2" arm engagement over a 7/16 square spindle ensures a wear-resistant tight joint

### Fasteners

- Machine Screws and self tapping screws provided for closer and arm
- In addition, wood screws supplied when installed on wood doors with through bolts

### Valves

- Separate brass low sensitivity control valves offer ability to separately regulate door speed, latching, backcheck and optional delayed action
- All valves are captured to prevent accidental removal, adjustable with an 1/8" Allen wrench
- Adjustable backcheck protects the door and hardware from damage during the opening cycle
- Adjustable delayed action (optional) permits easy access for physically impaired individuals

### Full Complement of Arm Types

- Standard and parallel arms
- Push and pull track arms
- Heavy duty forged steel arms are finely finished and interchangeable between SARGENT 281 and 1431, and 351 Series. The cold formed arms (RO/RP9) are unique to the 1431 series and not interchangeable with other SARGENT closers

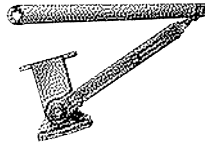
## Regular Duty Parallel Arms

### 1431 Series Powerglide®

#### Hold Open Arms

##### PH4 - Flush frame, Friction Hold Open Arm

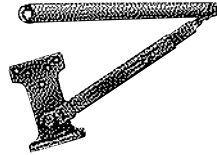
- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75° – 180°
- Easily adjusted by wrench
- Non-handed
- Use on frames where stop or soffit is too narrow to mount the standard hold open foot bracket



For arm only, order as 25-PH4 x finish  
Includes: 63-2229 - Main arm and link assembly  
61-2303 - Foot assembly  
64-0050 - Foot bracket  
64-2407 & 63-2391 - Screw packs

##### PH9 - Friction Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Holds open from 75° – 180°
- Easily adjusted by wrench
- Non-handed

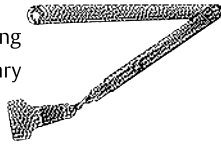


For arm only, order as 25-PH9 x finish  
Includes: 63-2229 - Main arm and link assembly  
61-2303 - Foot assembly  
64-0039 - Foot bracket (125 PH9)  
64-2407 & 63-2391 - Screw packs

#### Offset Bracket Arms

##### P3 - 1" Offset Bracket for use with Auxiliary Holder/Stop

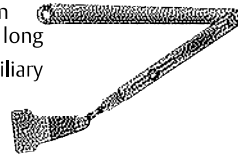
- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is offset 1" more than P-9, allowing door closer to be lowered on door face
- Non-handed



For arm only, order as 25-P3 x finish  
Includes: 63-2607 - Main arm and link assembly  
63-2270 - Foot assembly  
64-2407 & 63-2391 - Screw packs

##### P3A - 1-3/4" Offset Bracket for use with Auxiliary Holder/Stop

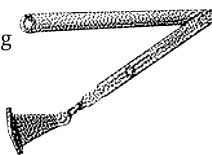
- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders and door coordinators
- Foot bracket lowers door closer an additional 3/4" below P3 bracket
- Non-handed



For arm only, order as 25-P3A x finish  
Includes: 63-2607 - Main arm and link assembly  
63-2274 - Foot assembly  
64-2407 & 63-2391 - Screw packs

##### P4 - Parallel Flush frame Arm

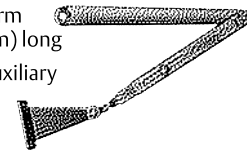
- Forged Steel Arm 11-1/4" (286mm) long
- Foot bracket is attached to frame or transom face
- For use where stop or soffit is too narrow for the standard P9
- Permits 120° opening with standard mounting
- Permits 180° opening with alternate mounting
- Non-handed



For arm only, order as 25-P4 x finish  
Includes: 63-2607 - Main arm and link assembly  
63-2295 - Foot assembly  
64-2407 & 63-2391 - Screw pack

##### P4A - Flush Frame Arm for use with Auxiliary Holder/Stop

- Forged Steel Arm 11-1/4" (286mm) long
- For use with auxiliary surface overhead stops and holders
- Foot bracket is attached to frame or transom face
- Foot bracket lowers door closer an additional 3/4" below P4 bracket
- Non-handed



For arm only, order as 25-P4A x finish  
Includes: 63-2607 - Main arm and link assembly  
63-2272 - Foot assembly  
64-2407 & 63-2391 - Screw packs

##### RP9 Regular Arm

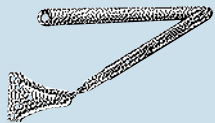
- Cold Formed Steel Arm 11-1/4" (286mm) long
- Arm is not handed
- Permits 120° opening with standard mounting
- Permits 180° opening with alternate mounting



For arm only, order  
Includes: 63-3396 - Main arm and link assembly  
63-2271 - Foot assembly  
64-2407 & 63-2391 - Screw Packs

##### P9 - Standard Parallel Arm

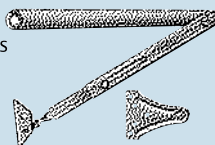
- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed



For arm only, order as 25-P9 x finish  
Includes: 63-2607 - Main arm and link assembly  
63-3405 - Foot assembly  
64-2407 & 63-2391 - Screw packs

##### UO/RUO Packages

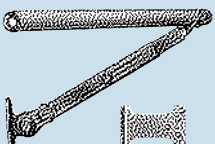
- Universal arm package provides arms and brackets to install closer in standard top jamb or parallel application



Screw packs 64-2407 & 63-2391 125-P9

##### UH Package

- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard or parallel applications



Screw packs 64-2407 & 63-2391 125-PH9

# How to Order

## 1431 Series Powerglide®



### Packing

All closer assemblies are packaged 4 per carton. On request, door closers will be packed 2 per carton.

### How To Order

Options	Series	Closer Arm	Finish	Hand
CPC-DA	1431	P4H	26	LH
31-36-74-CPC-DA-MC-SG-SRI-TB-	1431	Standard Page 6  Top Jamb Page 8  Parallel Pages 10 & 11  Track Type Page 13	EB ED EN EP EAB 03* 04* 09* 10* 10B* 10BE 10BL* 14* 15* 20D* 26* 26D* BSP	LH RH

\* These finishes are automatically provided with a metal cover

### How To Order

Accessories	Example
Arm only	Specify 25-, arm required and finish 25-PSH EN
Body only	Specify CB-1431 (Option DA- available) CB-1431
Arm conversion Units	Specify unit and finish 125-P9 EB
Cover Only (Standard)	1431-C x finish 1431-C x EN
Cover Only (Metal)	1431-CMC x finish and hand & arm type 1431-CMC x 26D x LH X P-10
Accessories	Specify accessory and finish See applicable catalog section 1431-D EB

When complete closer assembly is ordered with an accessory, order accessory as a separate item

### Finishes

Finishes	ANSI/BHMA	Description
EB	695	Bronze powder coated to match finish 10B
EN	689	Aluminum powder coated
ED	693	Black powder coated to match finish 20D
EAB	696	Brass powder coated
EP	691	Bronze powder coated to match finish 10
03	605	Bright brass, clear coated
04	606	Satin brass, clear coated
09	611	Bright bronze, clear coated
10	612	Satin bronze, clear coated
10B	613	Dark oxidized satin bronze, oil rubbed
10BE	613E	Dark oxidized satin bronze - equivalent
10BL	614	Oxidized satin, bronze, clear coated
14	618	Bright nickel plated, clear coated
15	619	Satin nickel, clear coated
20D	624	Statuary dark bronze, clear coated
26	625	Bright chromium plated
26D	626	Satin chromium plated
BSP	—	Black Suede Powder Coat

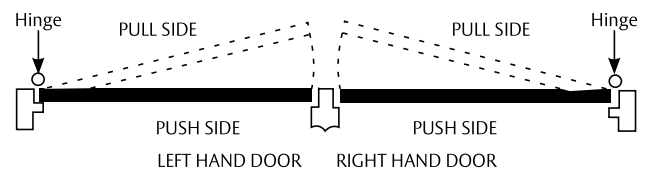
Series	Number per Carton	Approx. wt per Carton
1431	4-Standard (2 upon request)	19 lbs. per 4

### Options Available

Specify	Detailed Description
31-	For doors 1-7/8" – 2-1/4" thick, specify door thickness, doors over 2-1/4" thick contact factory
36-	Security Torx Screws supplied for all exposed fasteners
74-	Lead lined cover
CPC-	Clear Powder Coat (available on 26 & 26D)
DA-	Delayed Action
MC-	Handed Metal Cover
SRI-	Special Rust Inhibitor finish for powder coated finishes only (arm)
TB-	Through Bolt (1-3/4" Std) For others, specify 31-TB- & door thickness

### Note:

- The MC- option is used when a metal cover is desired on a powder coated finish
- When MC- is added to a plated finish, the MC- option indicates that only the cover is to be plated, the arms will be powder coated to match
- Do not specify the MC option if both the cover and arms are to be plated



### Special Rust Inhibitor Process (SRI)

Additional process available for bracket and arms provides an extra layer of protection for extreme corrosive environments. Available with powder coated finishes only, specify SRI- as an option when ordering.

## Materials

Metal retainers for gasketing are Aluminum Alloy 6063, T5 temper, unless noted.

Architectural Bronze gasketing is Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.

Stainless steel gasketing is Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

NGP utilizes a variety of gasketing materials including Vinyl, Neoprene, Silicone, Nylon Brush, Thermo-Plastic Elastomers (TPE), Thermo-Plastic Vulcanizates (TPV), Polypropylene Pile, Ethylene-Propylene-Diene-Monomer (EPDM), Polyurethane, and Intumescent Fire Seals. Product illustrations indicate the Gasketing material. Properties of many primary gasket materials are listed on the perimeter seal catalog pages.

Adhesive mounted gasketing utilizes a pressure sensitive modified acrylic adhesive protected by a release liner. Once installed it provides a permanent bond in exterior or interior locations. End use temperature range is -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.

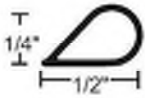
## Gasketing Finishes

				<u>NGP Suffix:</u>
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Anodized Aluminum	ANSI/BHMA 628	US28	A
	Dark Bronze			DKB
	Gold Powder Coat			B
	Polished	ANSI/BHMA 717		POL
	Powder Coated Colors – See Page L2 for details			
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
Stainless Steel:	Brushed (#4)	ANSI/BHMA 630	US32D	None
Gasket Materials:	Neoprene is Black			N
	NGP-TPV is Black			N
	Polyurethane is Black			U
	Vinyl is Gray, except where noted as Black			V
	Silicone colors: Black, Brown, Clear, Gray, Tan, White			S
	Thermoplastic is Brown			T, T6
	Nylon Brush colors: Black, Gray			
	TPF colors: Brown, Charcoal, Clear, White			
Polypropylene Pile is Gray				
EPDM is Gray				

## Powder Coat Finish

Powder Coat finish is available on most metal gasketing retainers upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.

## Self-Adhesive Silicone Gasketing



- 5050B** Brown
- 5050C** Charcoal
- 5050W** White
- 5050T** Tan
- 5050CL** Clear

Available in 17', 20', 21", 25' and 300' rolls

\*Clear not available in 21'

### Silicone Bulb Fire and Smoke Seal



**Edge Sealing System - Category "G" for 20 minute rated category B wood doors perimeter application up to:**

- single swing 4'0 x 8'0
- pairs 8'0 x 8'0
- use 9550 at the meeting edge of pairs

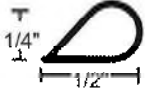
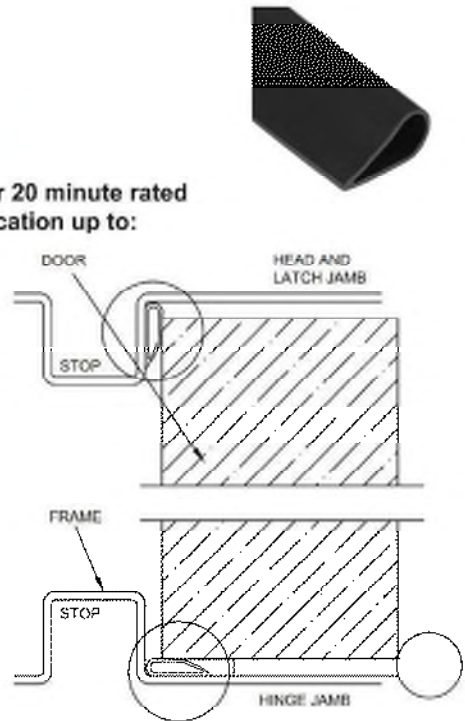


**Smoke and Draft Control - Category "H"**  
Up to 3 hours Hollow Metal fire doors  
Up to 90 minutes Wood fire doors



Meets requirements of RoHS Directive

See adhesive specifications on page G9



- ANTI-LIG 5050B** Brown
- ANTI-LIG 5050C** Charcoal
- ANTI-LIG 5050W** White
- ANTI-LIG 5050CL** Clear

Available per foot (bulk) or in stock length 300' rolls.

### Anti-ligature Silicone Bulb Fire and Smoke Seal

Anti-ligature feature has serrations every 8" designed to break apart preventing it from being used to hang or strangle.

Applications include psychiatric facilities, prisons and other treatment facilities.

Installs as a continuous length providing the same sealing properties for light, sound, air and smoke as our original 5050.



**Edge Sealing System - Category "G" for 20 minute rated category B wood doors perimeter application up to:**

- single swing 4'0 x 8'0
- pairs 8'0 x 8'0
- use 9550 at the meeting edge of pairs



**Smoke and Draft Control - Category "H"**  
Up to 3 hours Hollow Metal fire doors  
Up to 90 minutes Wood fire doors



Meets requirements of RoHS Directive

See adhesive specifications on page G9

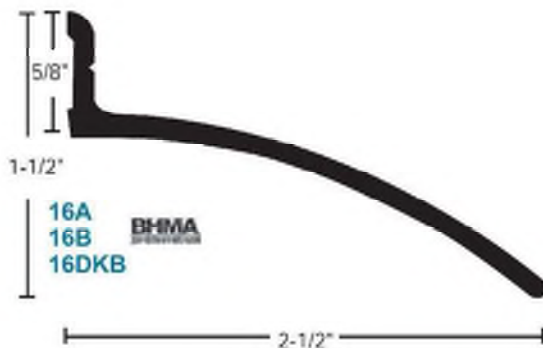




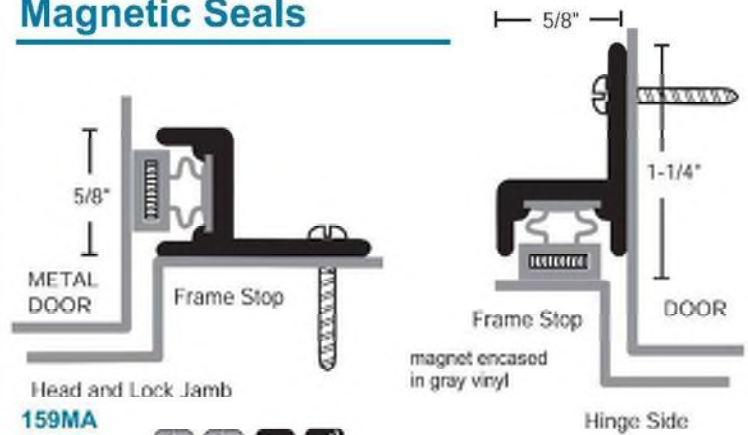
## Rain Drip Guards

#6 x 3/4" Stainless Steel  
SMS furnished

**A** - anodized aluminum  
**B** - gold  
**DKB** - dark bronze  
**No Suffix** - mill aluminum



## Magnetic Seals

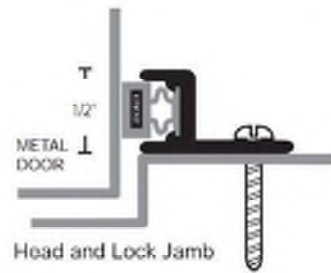


Head and Lock Jamb

159MA  
159MB  
159MDKB

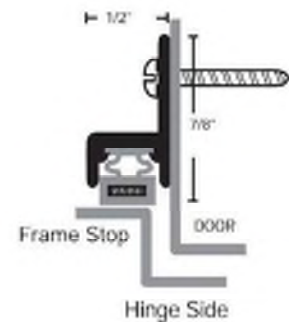


#6 x 3/4" Stainless Steel SMS furnished.  
Screw holes slotted for adjustment.  
Maximum length 144"



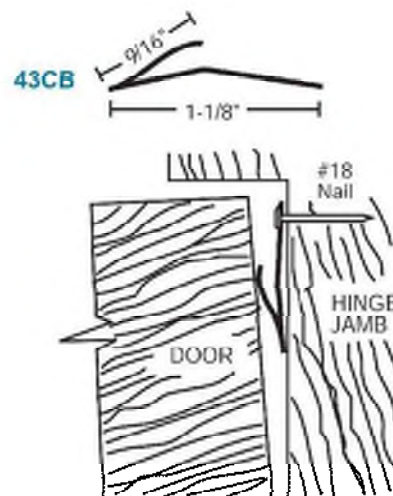
157MA  
157MDKB

magnet encased in brown vinyl



## Cushion Bronze Weatherstrip

Cushion material will not coil. Specify lengths required (36", 48", 72", 86", and 96".) Nails not included. Normal installation requires 3/4 lb. of nails per 100 ft. of weatherstrip; install 2" o.c. Zinc plated bronze finish nails available in 1 lb. bags. Wafer head pilot point drive nails make excellent applications for metal jambs, normal installation requires 6 per foot. Install using #41 drill bit. Available with Fast Attach Tape - Specify x "FATT".



## Vinyl Sweeps

#6 x 3/4" Stainless Steel SMS furnished.  
Screw holes slotted for adjustment.

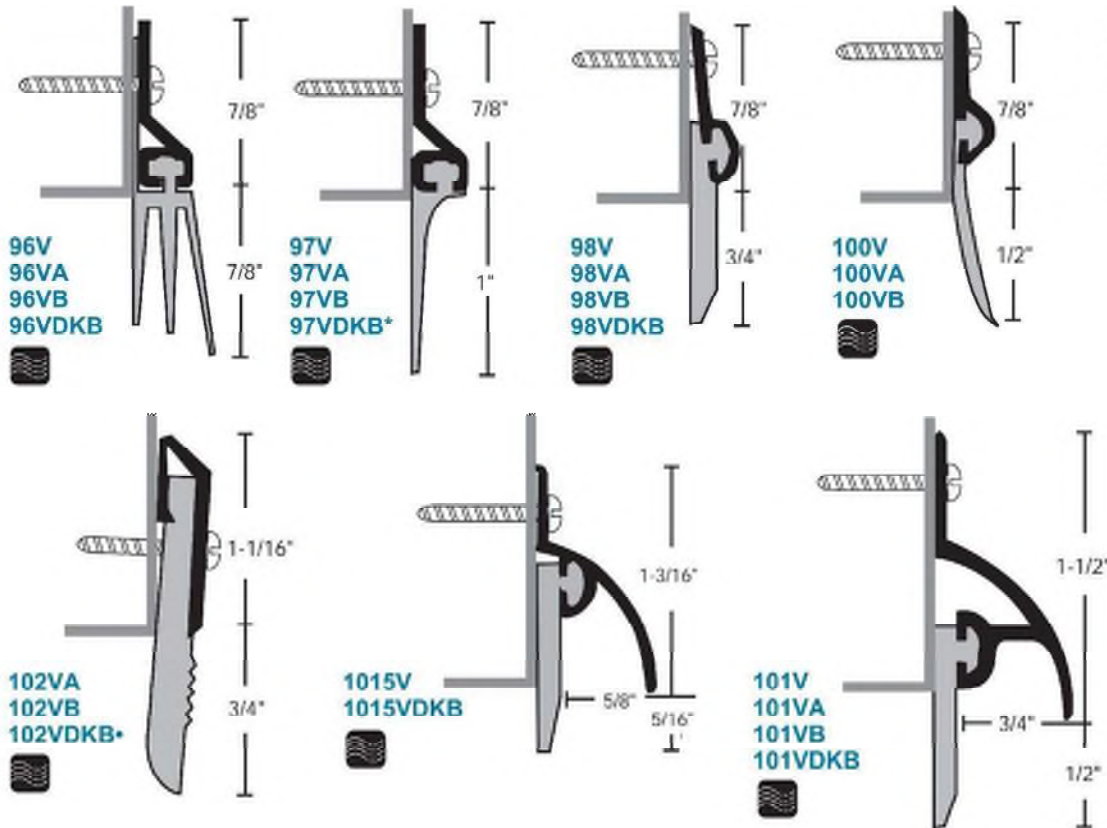
All products this page



**A** - anodized aluminum  
**B** - gold  
**DKB** - dark bronze  
**no suffix** - mill aluminum

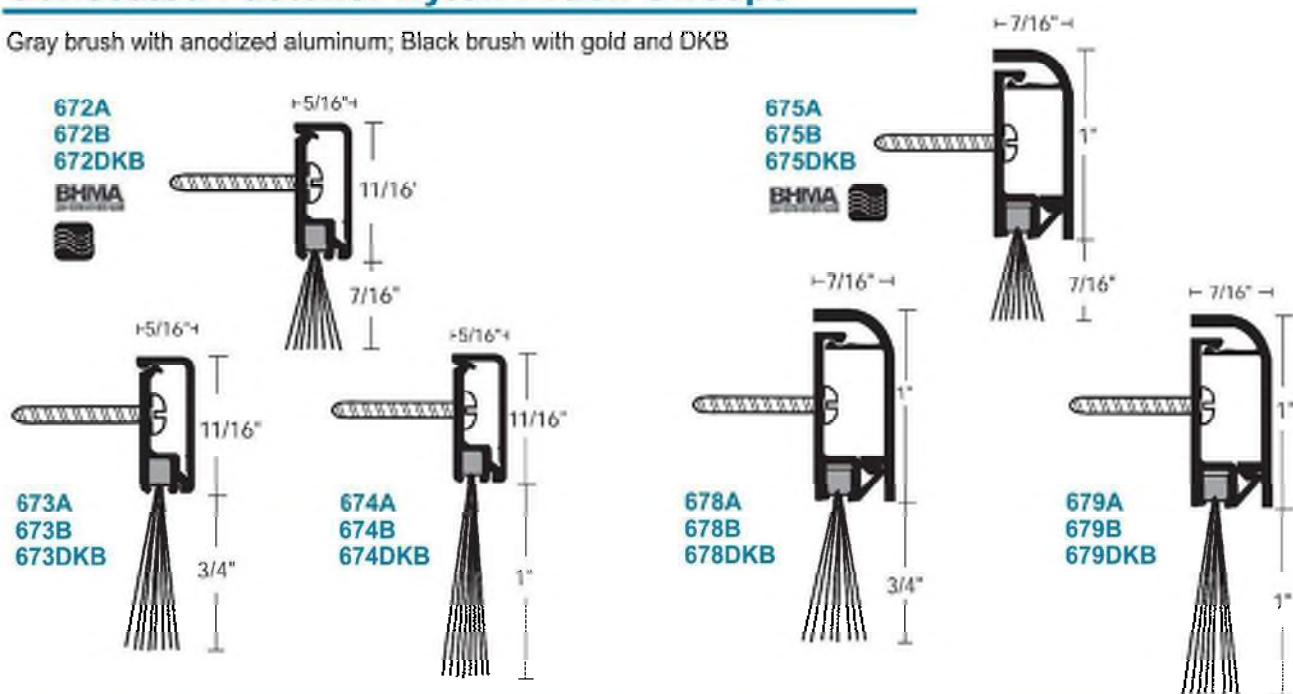
vinyl is gray

Exceptions:  
•vinyl is black



## Concealed Fastener Nylon Brush Sweeps

Gray brush with anodized aluminum; Black brush with gold and DKB



## Materials

Thresholds are Aluminum Alloy 6063, T5 temper, unless noted.  
 Cover Plates 818, 814 and 828 are Aluminum Alloy 3003, H14 hardness.  
 Cover Plate 838 is Aluminum Alloy 5052, H32 hardness.

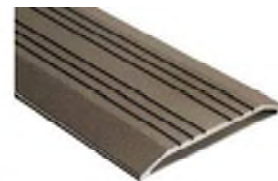
Architectural Bronze Thresholds are Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.  
 Brass Cover Plate 818BR is Alloy CDA 260 (Copper Alloy No. C26000) cold formed Cartridge Brass.

Stainless Steel Thresholds and Cover Plates are Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

## Threshold Finishes

				NGP Suffix:
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Dark Bronze			DKB
	Polished	ANSI/BHMA 717		POL
	Slip Resistant			SIA
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
	Slip Resistant			BR-SIA
Stainless Steel:	Mill Finish			SS
	Brushed (#4)	ANSI/BHMA 630	US32D	SS-Brushed
	Polished	ANSI/BHMA 629	US32	SS-POL
	Slip Resistant			SS-SIA

## Slip Resistant Finish



SIA (Slick It Ain't) finish is our slip resistant textured surface, available on all thresholds up to 24" wide and on 818 aluminum and brass cover plates up to 10" wide.

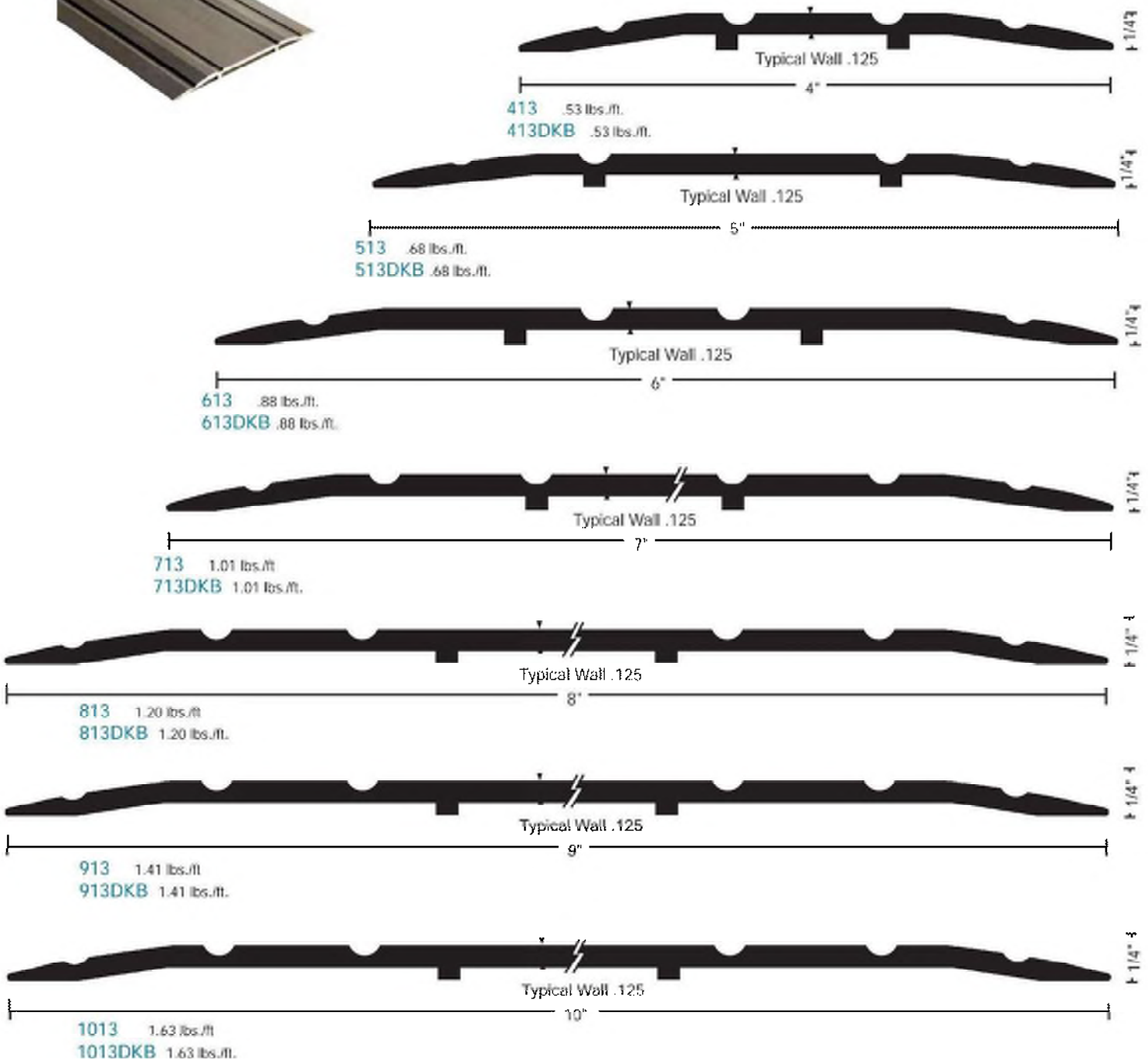
Our SIA technology embeds bits of hot nickel and titanium into the surface of the threshold using a high pressure thermo-electrostatic process. It was originally developed for use on aircraft carrier decks. SIA finish is very durable and will not wear off.

This results in a slip resistant surface that is similar to high grit sandpaper.

Aluminum and Stainless Steel SIA finish thresholds are a pewter color.  
 Architectural Bronze SIA finish thresholds are a brass color.

## Saddle Thresholds

All thresholds this page



### MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



• Optional: Slip Resistant SIA Finish

### FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.