GRAND VALLEY STATE UNIVERSITY

INTERIOR & EXTERIOR WAYFINDING SIGNAGE STANDARDS MANUAL

January 2018

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Introduction

This Wayfinding Signage Standards Manual is designed to provide guidance to GVSU personnel and outside consultants who are involved in specifying, fabricating and installing interior and exterior signage at GVSU campuses and facilities. This manual also includes proper use of existing and new signage as well as GVSU logo use.

> **This manual is a University planning document intented to support internal discussions and maintain signage design consistency.**

It is important that staff members become familiar with this content, refer to it when signage issues arise, and support its use by others. The GVSU Facilities Planning department is responsible for overseeing ongoing implementation and adherence to the standards.

For more information, contact the GVSU Facilities Planning department at 616.331.3258.

Frequently Asked Questions

Q: "How do I determine what sign to use?"
A: This document lays out the guidelines for wayfinding signage usage. However, a Master Signage Plan was created for the Allendale & Pew exterior campuses. When replacing signage at either campus, please refer to the Master Plan in Appendix A to see if your location has been identified and programmed already.

To aid in determining sign types for future projects, please refer to the appropriate Sign Type Descriptions Page (Exterior Sign Type Descriptions - Page 5, Interior Sign Type Descriptions - Page 43.) These documents highlight the proper sign type usage and layouts.

Q: "What is the process for getting my sign approved?"
A: Please submit a written request or electronic signage request form with your budget account to Facilities Planning. They will review and contact the requestor with questions. If approved, production time is approximately 8 weeks depending on project complexity. Facilities Planning will contact requestor to schedule installation and coordinate final details.

Q: "Where do I find the interior signage Master Plan?"
A: The interior signage Master Plan was not included in this 2018 scope of work. However, an Interior Design Standard was created and should be used as the basis for all future interior signage needs. After buildings are programmed with new signage, we encourage you to include those plans as an Appendix to this Manual.

Q: "Why are page orientations different in this manual?"
A: This Manual was created as an 8.5"x11" portrait document. However, the Design Intent Drawings were created to scale in 11"x17" landscape format. When issuing documents for bid or using the drawings to scale, please refer to the original 11"x17" electronic files.

Q: "How do new signs or updates happen?"
A: Facilities Planning provides signs for new construction projects, building renovations, new faculty/staff, and office changes. Please contact them with additional questions.

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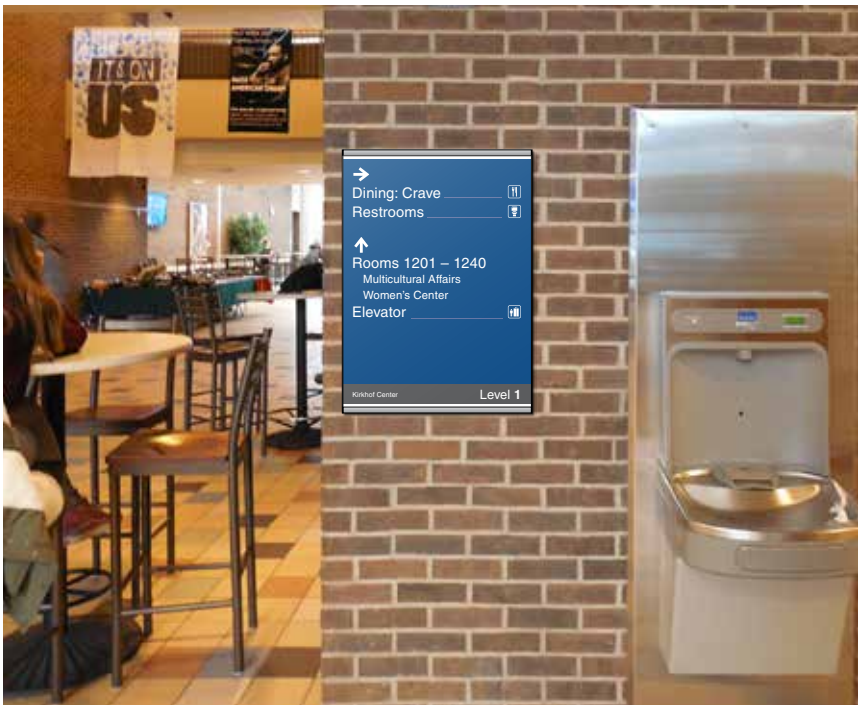
INTERIOR SIGNAGE

Interior Signage Standard 2018

Through the use of paper-based inserts, the interior signage standard was designed to be more efficiently managed and updated by the GVSU team. The majority of sign types throughout the standard utilize commercially available framing extrusions. As seen on page 50, the signs were developed to utilize standard paper sizes in order for inserts to be updated and maintained internally.

See Interior Sign Type Descriptions on pages 43-44 to aid in selecting the proper sign types.

*Note: This document was created to comply with the 2010 ADA Standards for Accessible Design. Please consult with Facilities Planning for compliance questions.



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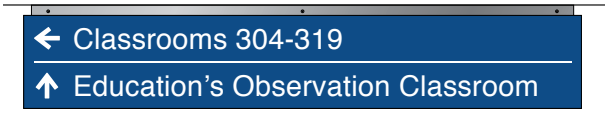
Interior Sign Type Descriptions

Overhead ID

This sign type is used to identify high-level public destinations in areas where wall-mounted signs and identifiers are not practical or when the sign needs to be seen from a long distance.

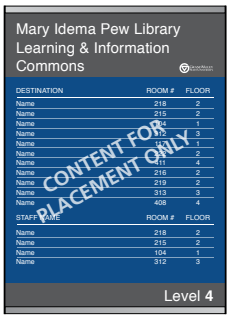
See pages 74-75



Overhead Guide

This sign type is used to provide direction to high-level public destinations and amenities in areas where wall-mounted guides are not practical or when the sign needs to be seen from a long distance in high-traffic areas.

See page 77



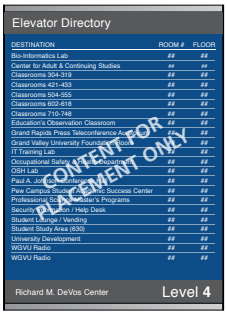
Building Directory

This sign type lists the building name and level, and displays a listing of all public destinations within the building. This sign type could also be used as a staff directory.

Destinations should be listed in alphabetical order.

See pages 53-55

See page 50 for insert sizes.



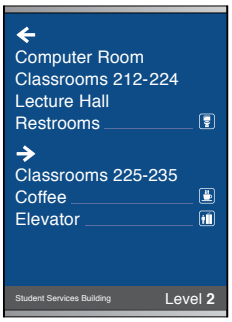
Elevator Directory

This sign type should be placed at elevator banks and provide a listing, in alphabetical order, of the destinations that are accessible by this specific elevator. The destination listing should also provide level and room numbers.

The footer of this sign also includes the building name and level.

See pages 59-60

See page 50 for insert sizes.



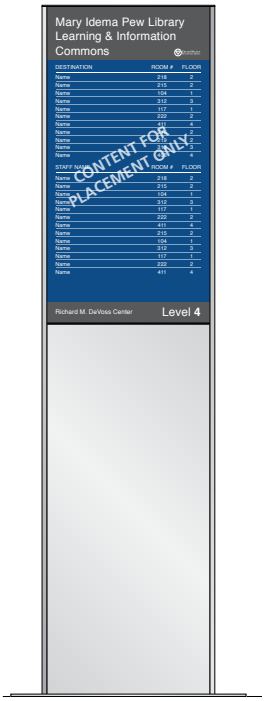
Wall Guide

These signs are located at building intersections and along corridors to direct to nearby destinations and amenities. The footer element carries the building name and level.

Destinations should be listed in the following order, left, then right, then straight ahead. Destinations within each arrow group should be listed alphabetically.

See pages 61-64

See page 50 for insert sizes.



Freestanding Directory

This sign type lists the building name and level, and displays a listing of all public destinations within the building. This sign type could also be used as a staff directory.

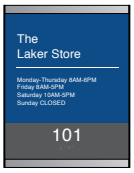
Destinations should be listed in alphabetical order.

This sign type should be used in locations where there is no wall-space to install a large directory.

***Installation of this sign will require special approval.**

See pages 51-52

See page 50 for insert sizes.



Primary Room ID

This paper-based insert sign type is used to identify the location of public destinations. When necessary, this sign can also list other information such as hours of operation or internal department names.

The footer element should present the room name or number in tactile lettering and braille as required by the Americans with Disabilities Act.

See page 65

See page 50 for insert sizes.

Secondary/Utility Room ID

Unlike other room signs, this sign is made using painted acrylic with tactile lettering. The branded elements (GVSU blue and logo) are removed from this sign type as it should be used to identify non-public spaces such as custodial closets, mechanical rooms, etc.

See page 66

Room Number ID

This simple acrylic sign with tactile lettering should be used to identify service rooms that are only identified by room number.

See page 67-68

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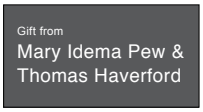
Interior Sign Type Descriptions (continued)



Donor Identification

This sign type should be used in conjunction with a Room ID or Classroom ID as a secondary identifier of the space.

This sign should always be installed above the Room ID.

See page 69

Restroom ID

Designed to mimic the look of the paper-based insert Room ID, this painted acrylic sign is intended to provide regulatory information such as restroom or stair entrances.

See page 79

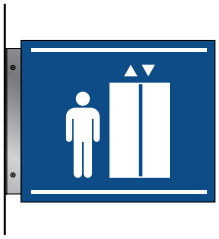
See page 48 for GVSU-approved symbols.

In Case of Fire

This is a code-required sign. Please confirm with local code to ensure compliance prior to installation.

See page 81

See page 48 for GVSU-approved symbols.

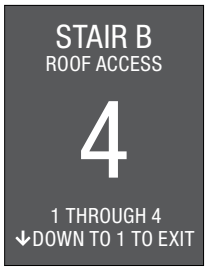


Overhead Flag ID

This sign is used to direct or indicate the location of a high-level public destination through the use of commonly used symbols. Typically, it should be used to identify restrooms and elevators.

See page 78

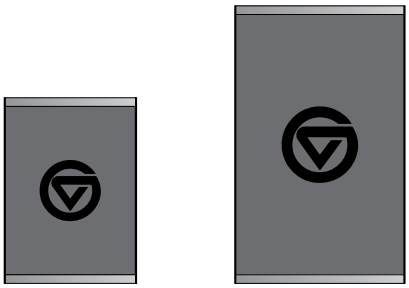
See page 48 for GVSU-approved symbols.



Regulatory Interior Stair

This is a code-required sign. Please confirm with local code to ensure compliance prior to installation.

See page 80



Notice Holder

This empty frame is used wherever temporary information needs to be posted and changed regularly. The user prints their own inserts on standard paper sizes.

See page 70-71

Door Frame Label

This simple acrylic sign is mounted to doors frames to identify utility rooms for maintenance staff.

See page 68

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INTERIOR DESIGN INTENT

*Note: The Design Intent package has been modified to fit within this document. The original files were formatted as an 11" x 17 " sheet. When issuing documents for bid, the full-size original document should be used.

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INTERIOR SIGN TYPE ARRAY

O-1 Overhead ID,
Double Sided - Large
O-1a Single Sided
9" x 4'-6"

O-2 Overhead ID,
Double Sided - Small
O-2a Single Sided
10" x 3'-0"

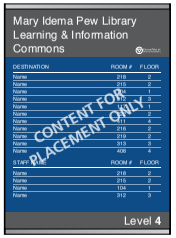
O-3 Overhead Guide,
Double Sided - Large
O-3a Single Sided
10" x 4'-6"

O-4 Overhead Guide,
Double Sided - Small
O-4a Single Sided
10" x 3'-0"

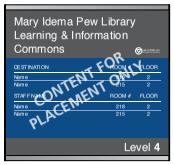
O-5 Overhead Flag,
Wall-mounted
O-5a Ceiling-mounted
11" x 1'-1"

*Special approval required for this sign.

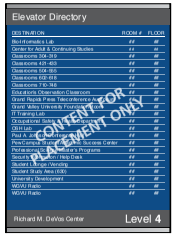
D-1 Freestanding Directory
6'-0" x 1'-5"



D-2 Directory
Wall-mounted - Large
2'-1 1/8" x 1'-6"

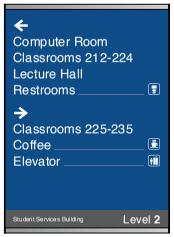


D-3 Directory
Wall-mounted - Small
1'-5 1/8" x 1'-6"



D-4 Elevator Directory - Large
2'-1 1/8" x 1'-6"

D-5 Elevator
Directory - Small
1'-5 1/8" x 11"



G-1 Wall Guide - Large
(8-9 Lines)
2'-1 1/8" x 1'-6"

G-2 Wall Guide -
Medium (4-5 Lines)
2'-5 1/8" x 1'-6"

G-3 Wall Guide -
Small (4-5 Lines)
1'-1 1/8" x 1'-6"

I-1 Primary
Room ID
11 1/8" x 8 1/2"

I-3 Utility
Room ID
6" x 7"

I-4 Room
Number ID
2 1/2" x 7"

I-5 Door
Frame Label
1 1/2" x 4"

I-6 Donor Name
Plaque
4 1/2" x 8 5/8"

I-7 Cubicle ID
2" x 8"

R-1 Regulatory ID
11 1/8" x 8 1/2"

R-2 Regulatory
Interior Stair Sign
1'-5" x 1'-1"

R-3 Regulatory
In Case of Fire
1' x 7 1/2 "

N-1 Notice Holder
Letter, Portrait
N-1a Landscape
1'-0 1/8" x 8 1/2"

N-2 Notice Holder
Tabloid, Portrait
N-2a Landscape
1'-6 1/8" x 11"

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Color Palette

	1 Metallic Silver	2 Dark Gray	3 GVSU Blue	4 Reflective White	5 Black
Pantone®:	---	Grey 431C	--- PMS 301C	White	Black
Matthews Paint:	Natural Satin Anodized Aluminum	MP14141	---	MP27386	Matthews 00833
Oracal Series 751 Opaque Vinyl:	---	---		010 White	070 Black

Dark Gray:
Exterior Signs use PMS Cool Gray 11C
Interior Signs use PMS 431C

Blue:
Exterior Signs use PMS 289C
Interior Signs use PMS 301C

Fabricator is responsible for matching all colors and materials as specified and are required to provide the Owner color and material samples for approval.

CAUTION!
CONSISTENT AND ACCURATE COLOR REPRODUCTION
IN THIS DOCUMENT CANNOT BE ASSURED DUE TO THE LIMITATIONS OF COLOR COPYING TECHNOLOGY.

The Coated Pantone Matching System® and Matthews Acrylic Polyurethatue are used for specifying signage color matches. (In the absence of actual sign material color chip reference sets, actual specified product color swatches should be referenced for color matching.)

Shown here are approximations of the primary signage background colors and supporting accent colors. Actual color finishes on signage must be satin or low luster (not shiny or glossy) and exclusively a premium acrylic polyurethane.

Signage paints produced by Matthews Paint Company or equal are to be the standard reference.

Vinyl Films from 3M are to be the standard.

Color application varies per sign type. Refer to specific design intent drawings for application details.

Typography

Helvetica Regular

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

Helvetica Medium Condensed

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1234567890

Logo Format

GRAND VALLEY STATE UNIVERSITY®

GRAND VALLEY STATE UNIVERSITY®

Logo colors to be black or white only.

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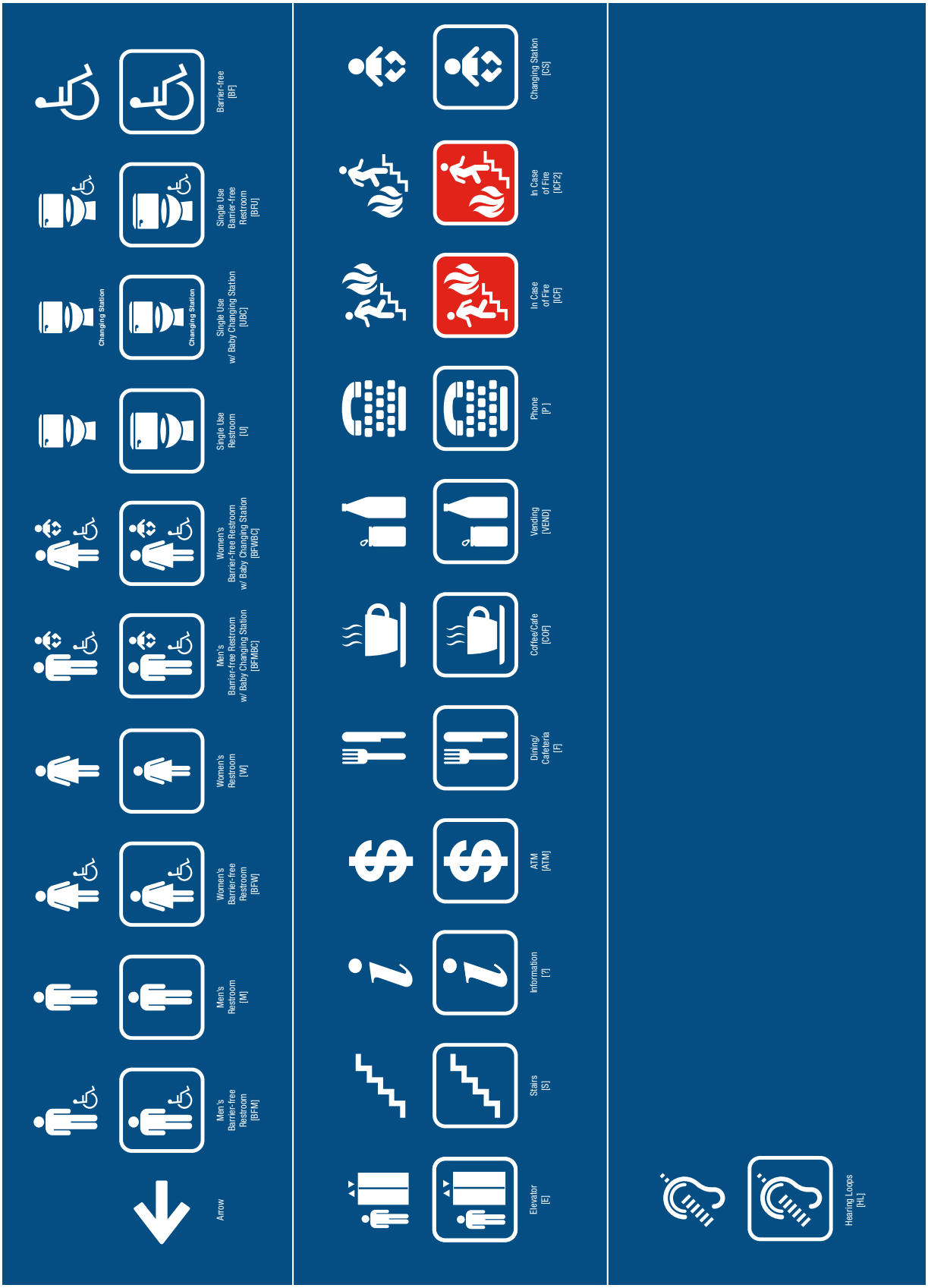
COMMONLY USED SYMBOLS



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MOUNTING GUIDELINES

ADA states that tactile room identification signs shall be installed on the latch side of the door (Illustration 1A). In the case of a double door, the sign shall be installed on the inactive leaf of the door (Illustration 1B). If both doors are active, then the sign is installed to the right of the right hand door. If there is no space on the latch side of the door, or to the right side of the double doors, then the sign is to be installed on the nearest adjacent wall space (Illustration 1C).

ILLUSTRATION 1A

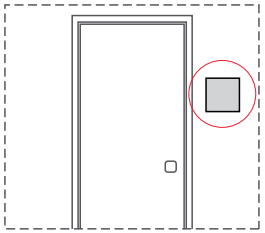


ILLUSTRATION 1B

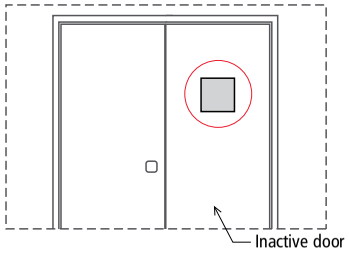
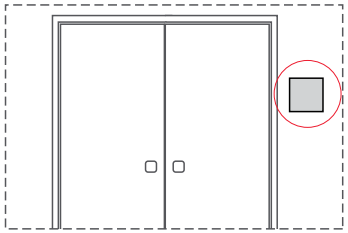
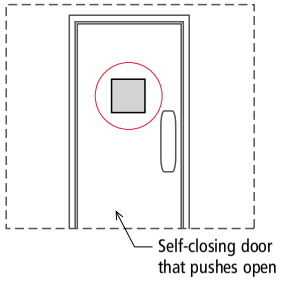


ILLUSTRATION 1C



Signs with tactile characters may be installed on the push side of a door (doors that open into the room, not into the circulation space), so long as the door has a closer and is not on a hold-open device. For example, restroom doors that push open into the restroom, and the door automatically closes, may have the tactile identification sign installed on the door. (Illustration 2)

ILLUSTRATION 2



Note that tactile signs must be installed such that a clear floor space of 18 inches by 18 inches, centered on the tactile copy, is provided outside of the swing of a door. (Illustration 3A and 3B)

ILLUSTRATION 3A

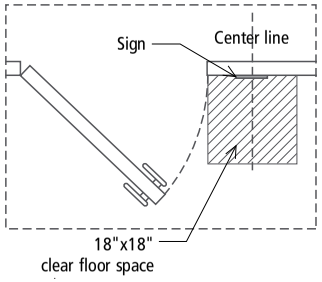
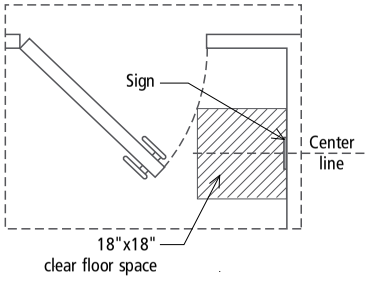


ILLUSTRATION 3B



NOTE: The mounting heights and guidelines provided throughout this book on individual design intent drawing pages are for reference only. These guidelines are an interpretation of the 2010 ADA Standards for Accessible Design, and are not to be construed as legal advice concerning compliance with any law or regulation.

INTERIOR PAPER INSERT SIZE LISTING

Sign Type	Frame Size	Insert Size	US Paper Size Name
D-2 Directory - Large	25 1/8" x 18"	18" x 24"	Arch C
D-3 Directory - Small	18" x 16 1/2"	18" x 16"	Arch C (trimmed)
D-4 Elevator Directory - Large	25 1/8" x 18"	18" x 24"	Arch C
D-5 Elevator Directory - Small	11" x 17 1/2"	11" x 17"	Tabloid
G-1 Wall Guide - Large	18" x 24 1/2"	18" x 24"	Arch C
G-2 Wall Guide - Medium	18" x 16 1/2"	18" x 16"	Arch C (trimmed)
G-3 Wall Guide - Small	18" x 12 1/2"	18" x 12"	Arch C (trimmed)
I-1 Primary Room ID	8 1/2" x 11 1/2"	8 1/2" x 11"	Letter
N-1 Notice Holders	8 1/2" x 11 1/2"	8 1/2" x 11"	Letter
N-2 Notice Holders	11" x 17 1/2"	11" x 17"	Tabloid

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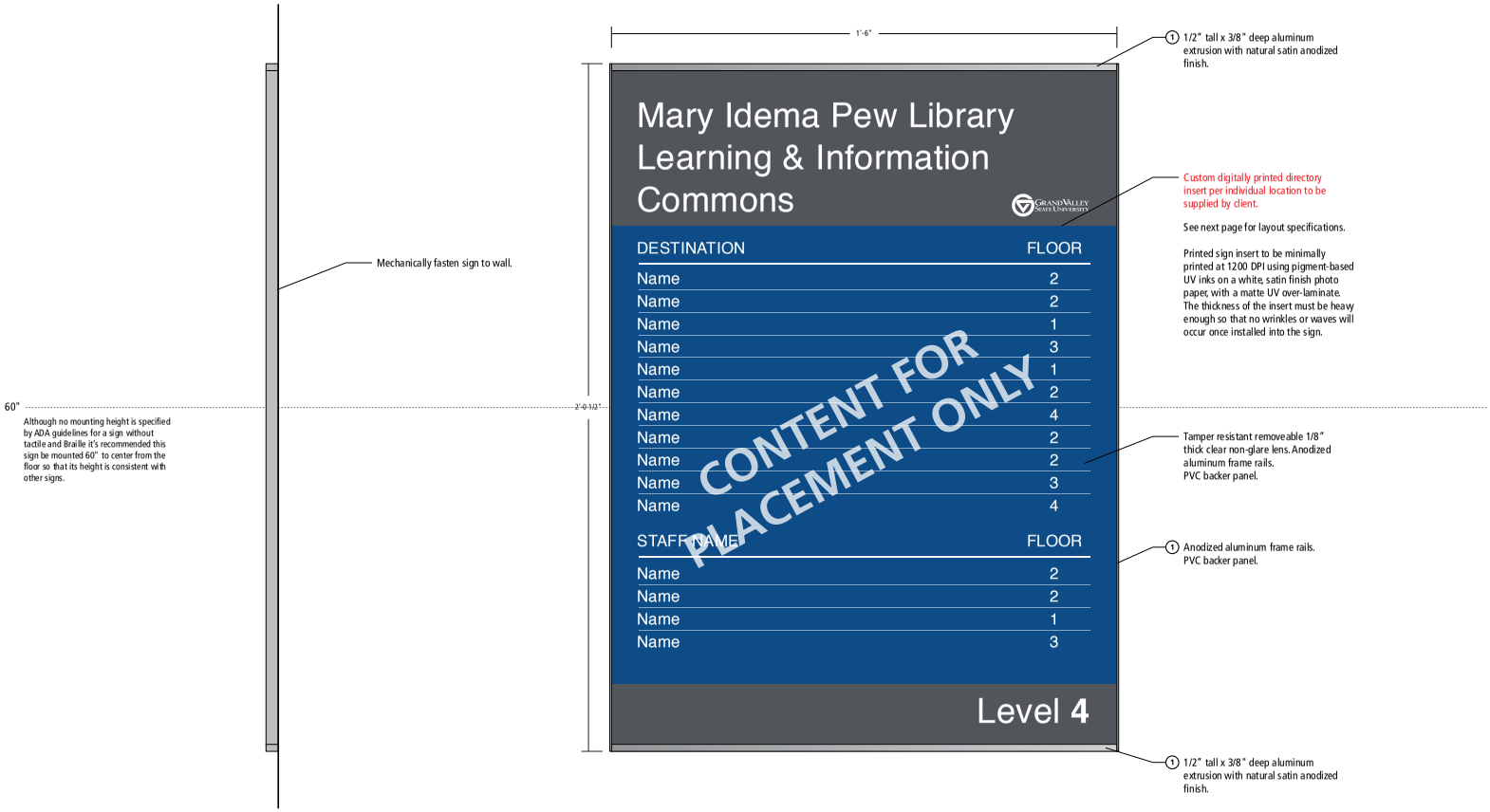
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

D-2 Directory - Wall-mounted - Large

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by the Owner.

Date	Description

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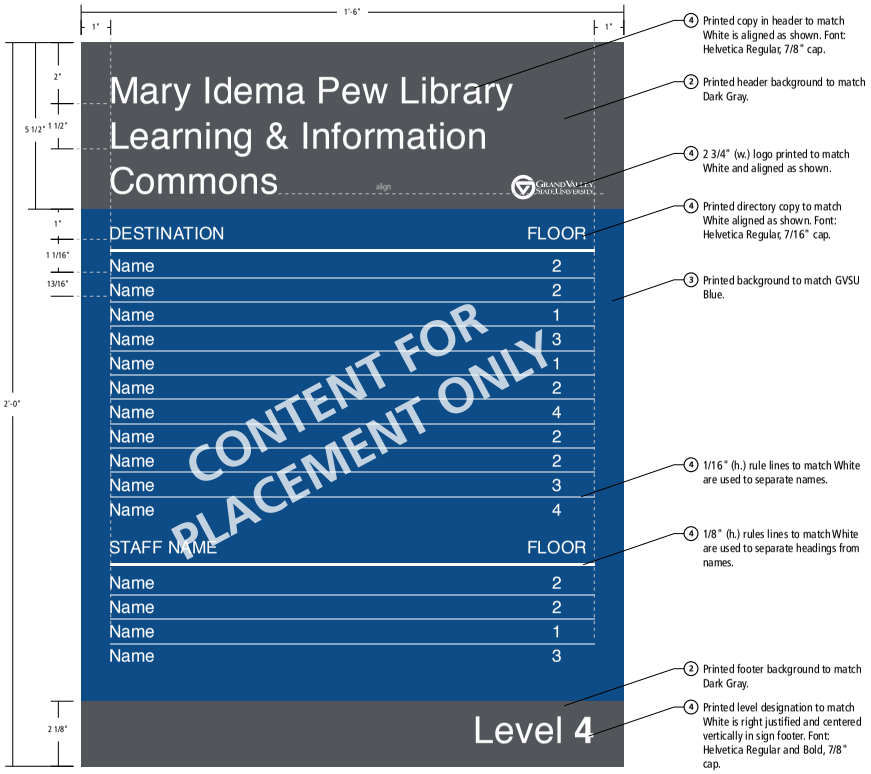
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.



Building Directory Layout

Sign Type

D-2 Layout

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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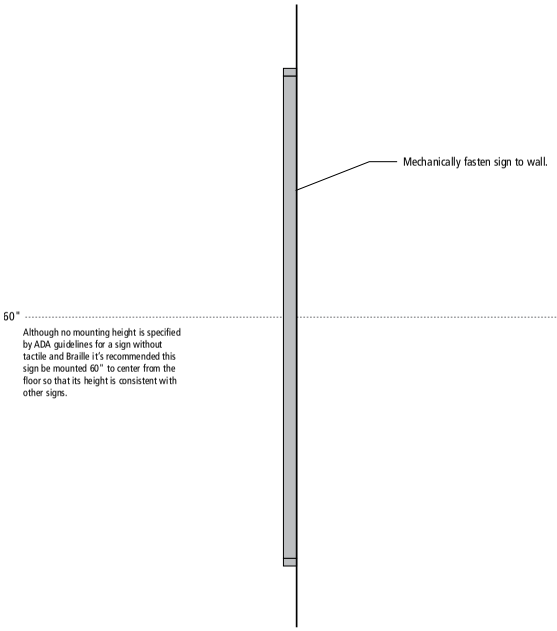
Date	Description

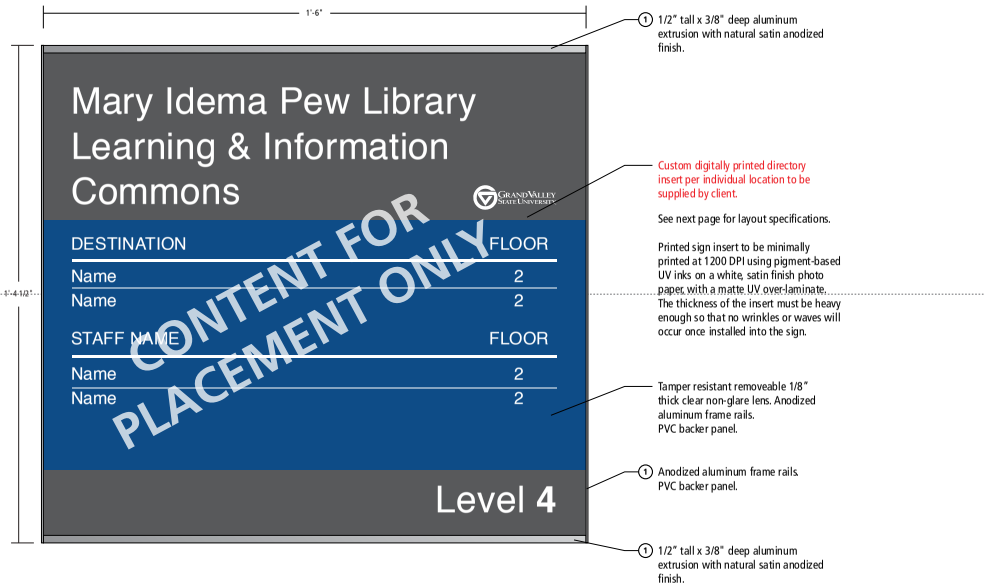
GRAND VALLEY STATE UNIVERSITY

*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View



Front View

Sign Type

D-3 Directory - Wall Mounted - Small

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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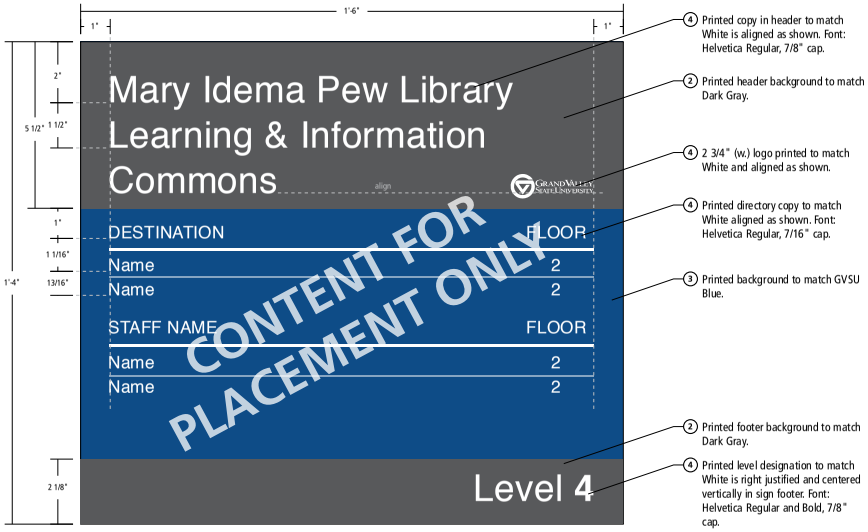
Contract Holder to use same size and type of mounting screw throughout interior program.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.



Building Directory Layout

Sign Type

D-3 Layout

Scale

2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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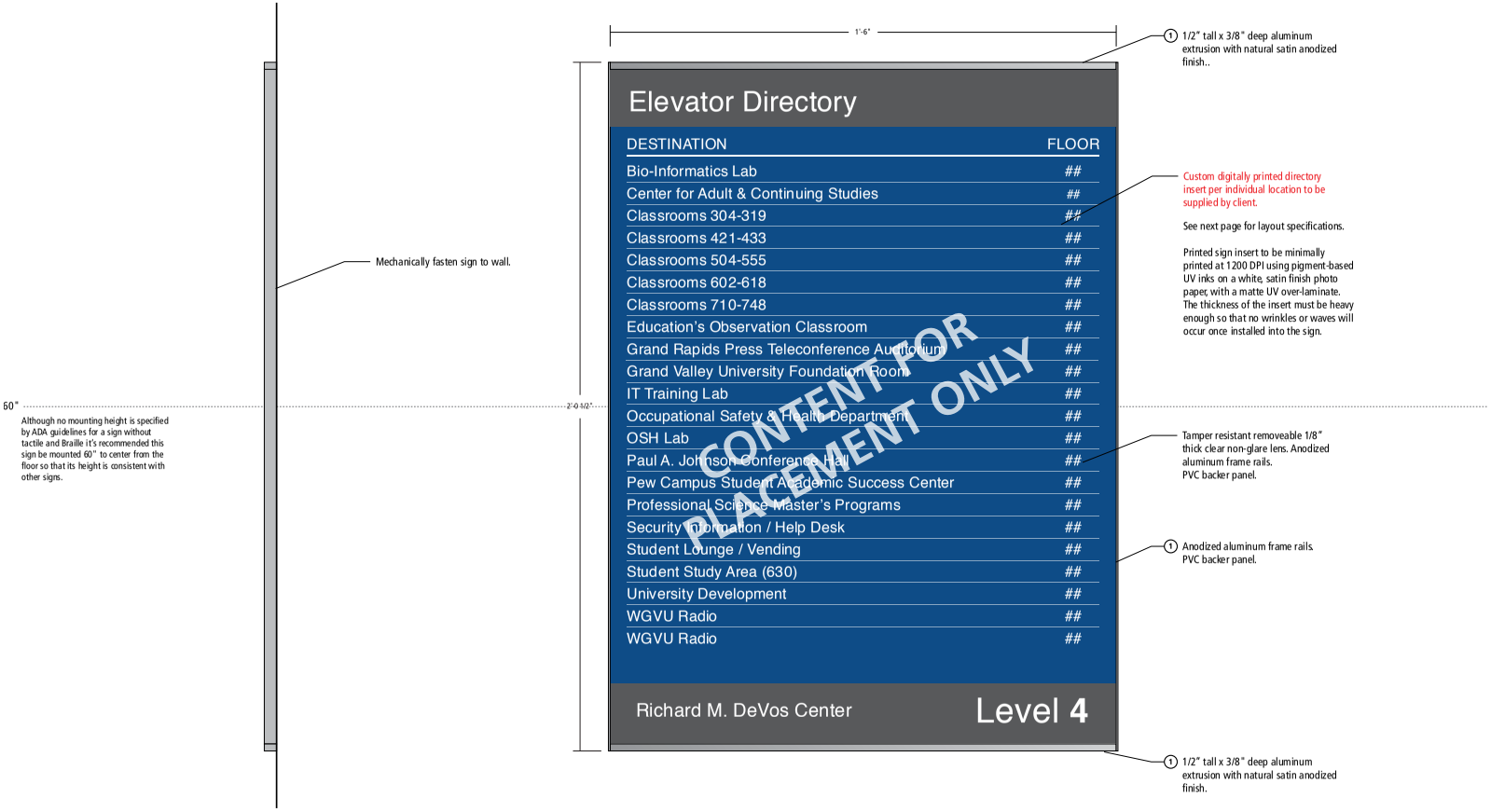
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

D-4 Elevator Directory - Large

Scale

2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

GRAND VALLEY STATE UNIVERSITY

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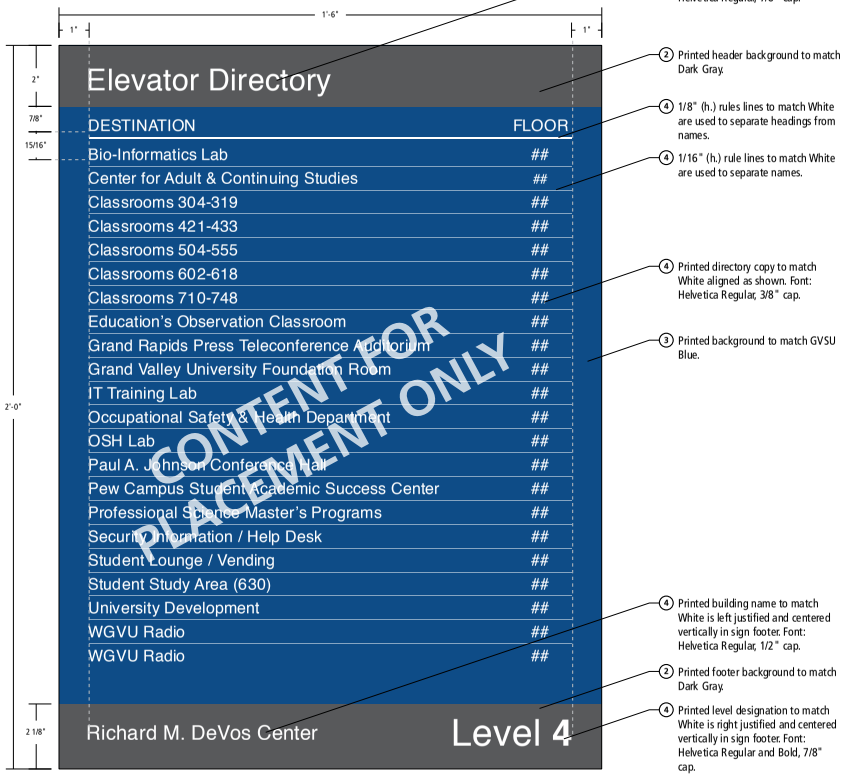
Contract Holder to use same size and type of mounting screw throughout interior program.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.



Insert Layout

Sign Type

D-4 Layout

Scale

2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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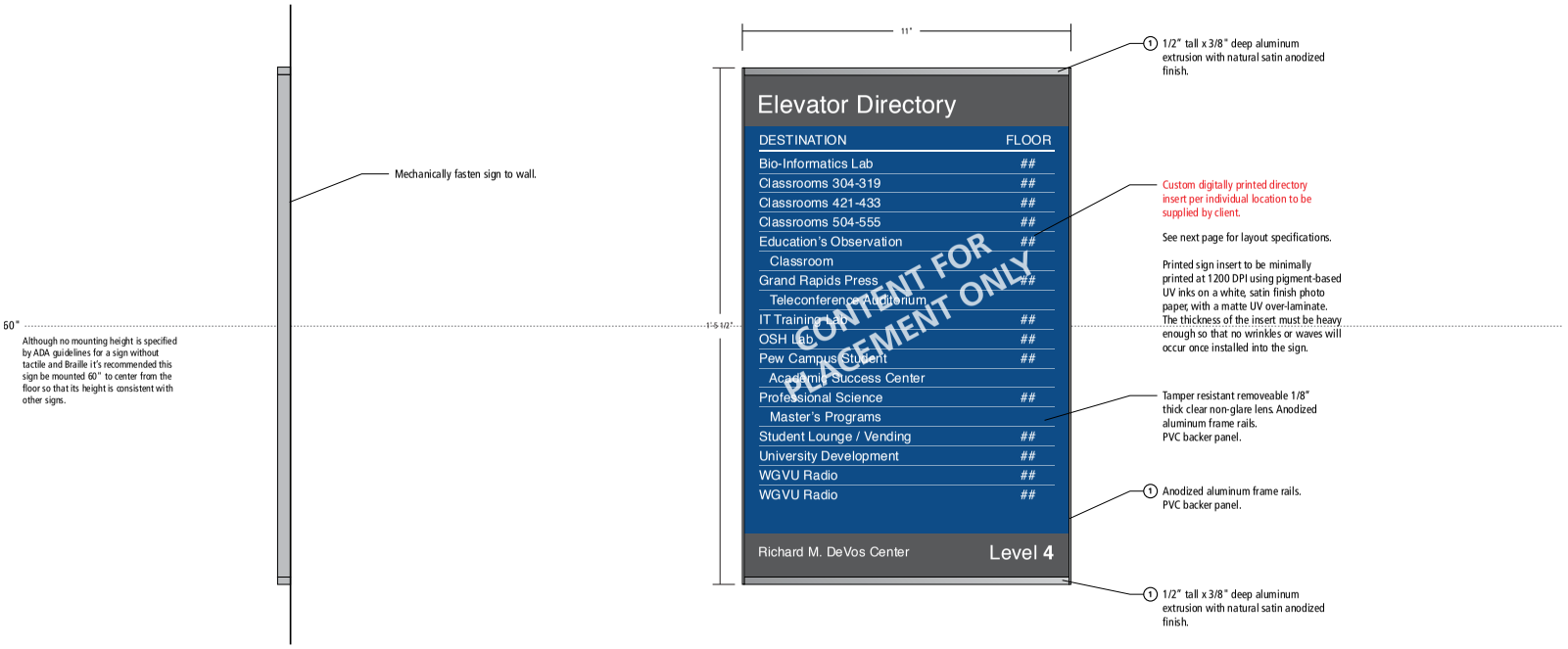
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

D-5 Elevator Directory - Small

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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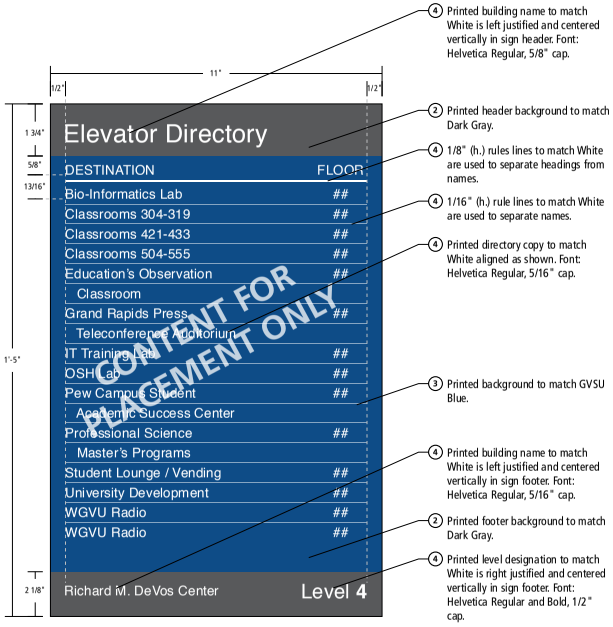
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.



Insert Layout

Sign Type

D-5 Layout

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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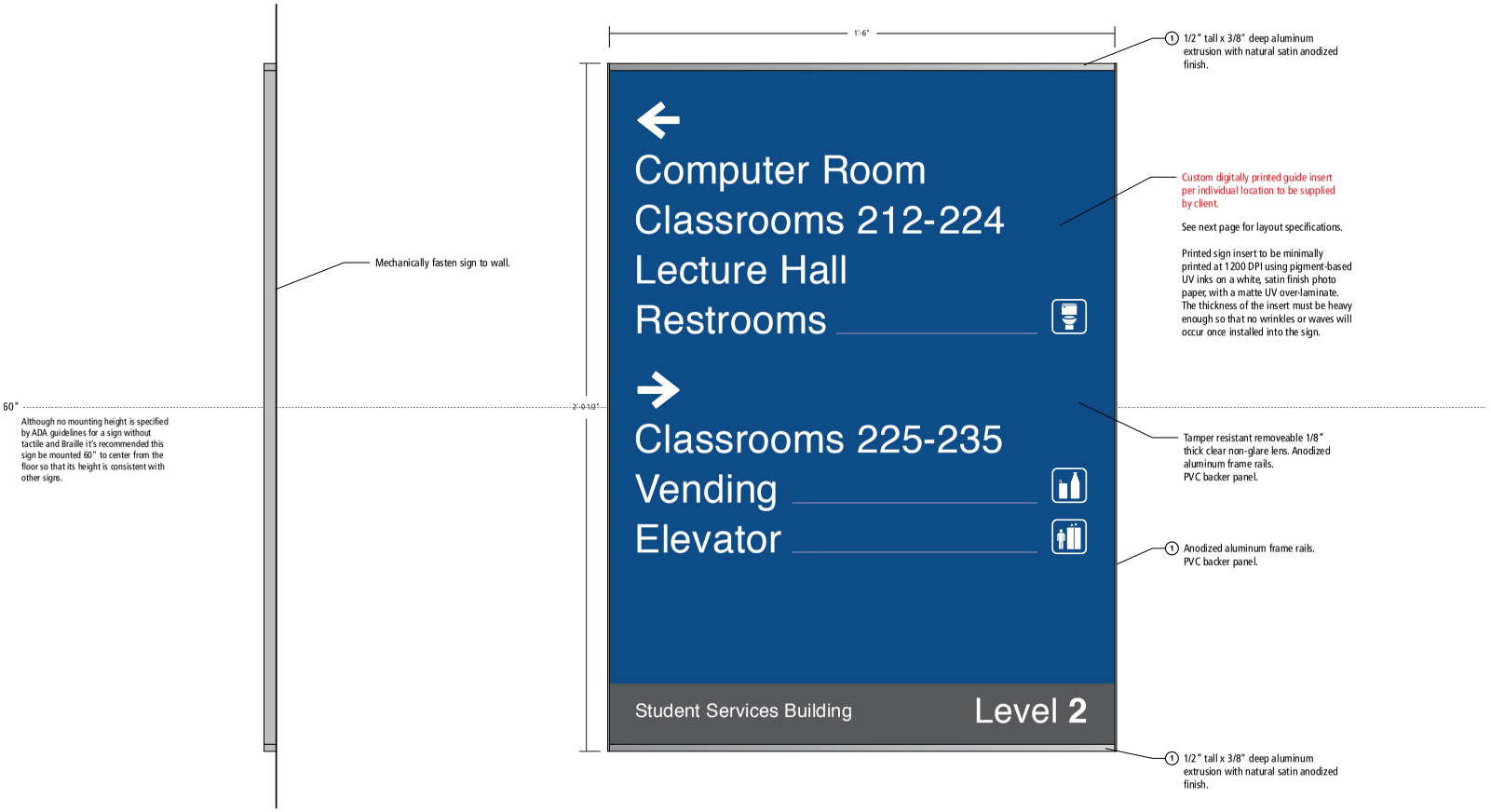
Date	Description

GRAND VALLEY STATE UNIVERSITY

*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

G-1 Wall Guide - Large (8-9 lines)

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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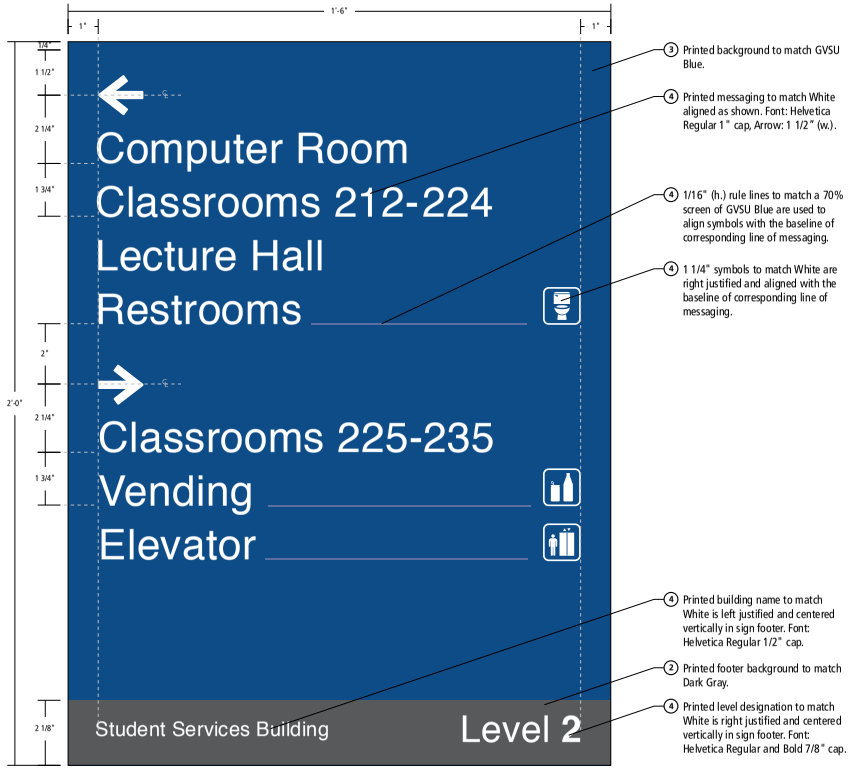
Contract Holder to use same size and type of mounting screw throughout interior program.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.



Layout View

Sign Type

G-1 Layout

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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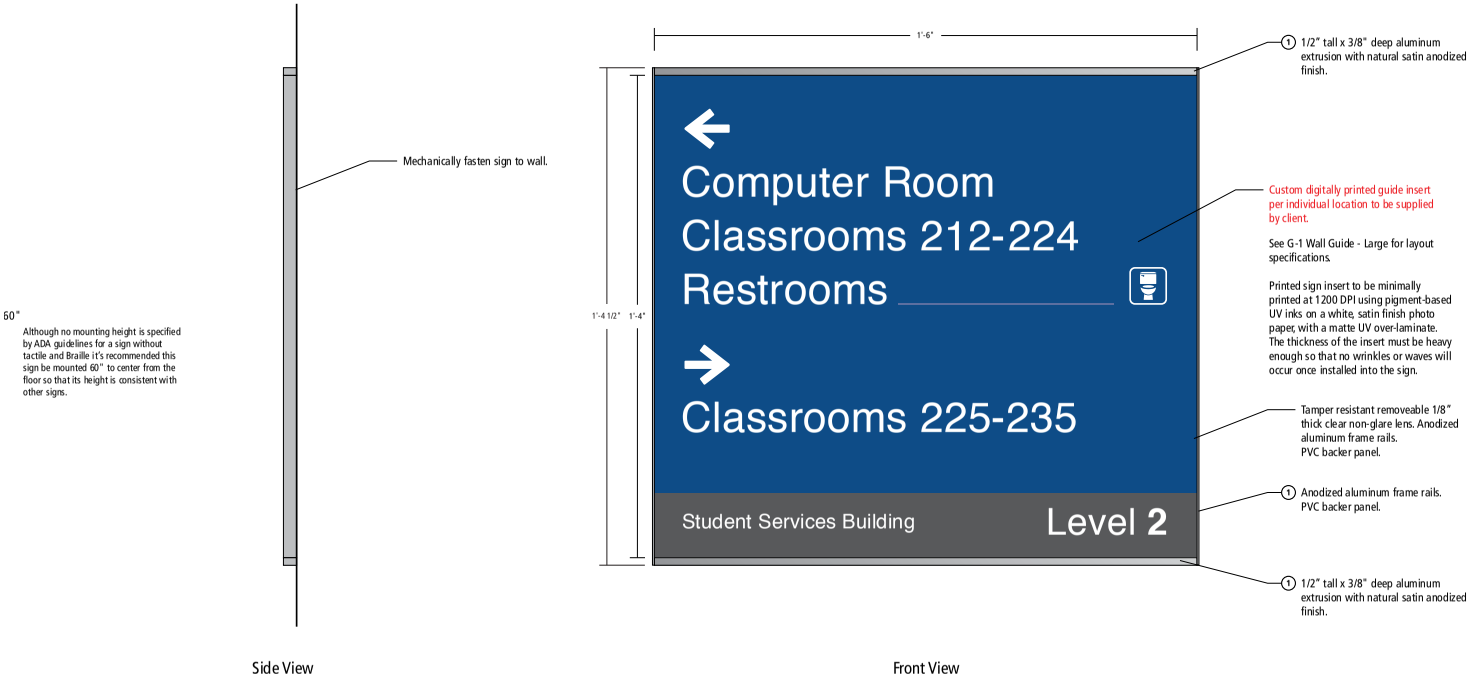
Date	Description

GRAND VALLEY STATE UNIVERSITY

*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Sign Type

G-2 Wall Guide - Medium (4-5 lines)

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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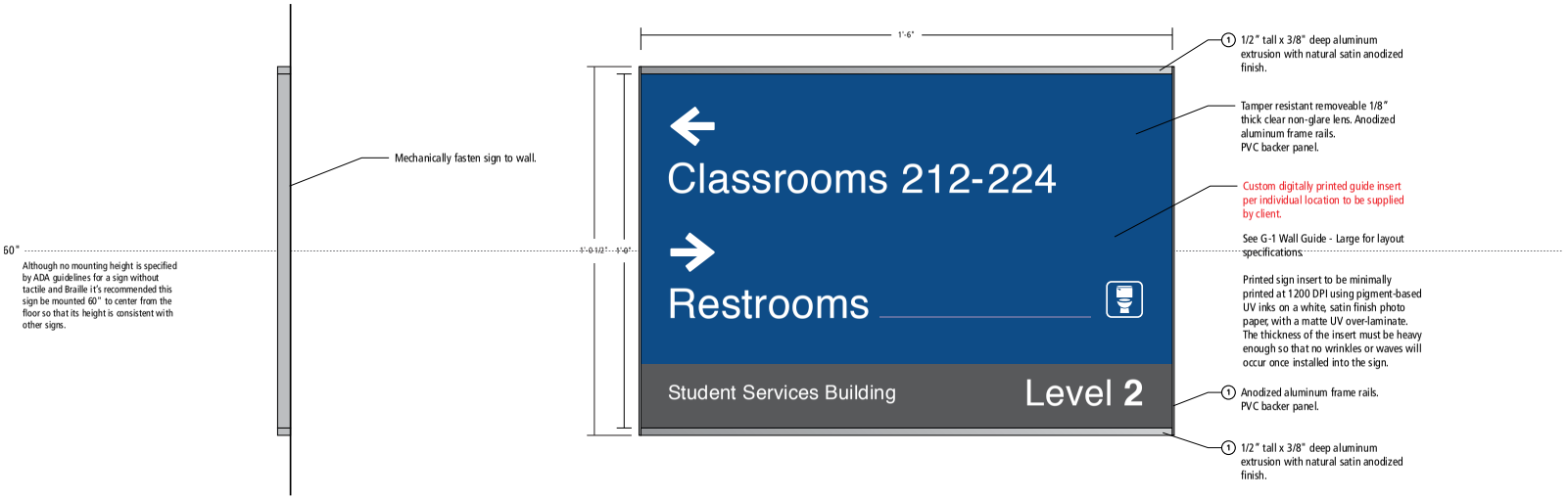
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

G-3 Wall Guide - Small (2-3 lines)

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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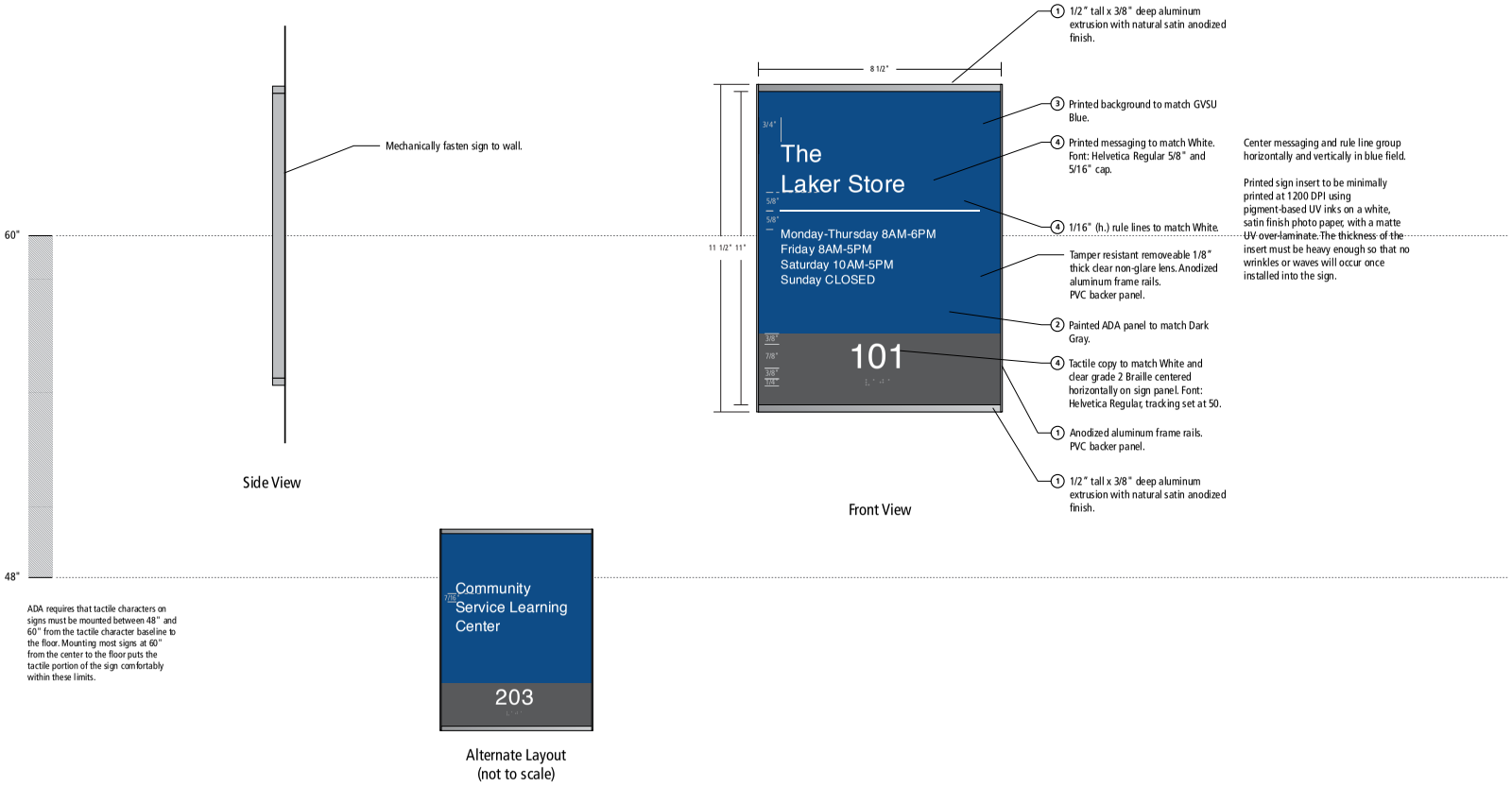
Contract Holder to use same size and type of mounting screw throughout interior program.



ADA requires that tactile characters on signs must be mounted between 48" and 60" from the tactile character baseline to the floor. Mounting most signs at 60" from the center to the floor puts the tactile portion of the sign comfortably within these limits.

Sign Type

I-1 Room IDs

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

GRAND VALLEY STATE UNIVERSITY

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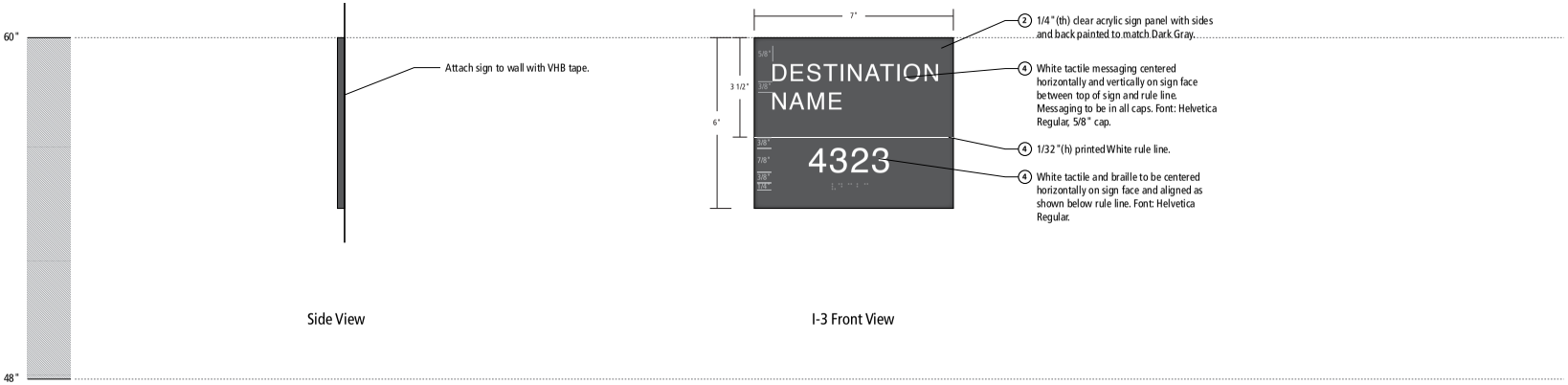
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

③ 1/4" (th) clear acrylic sign panel with sides and back painted to match GVSU blue and Dark Gray.

I-3a Front View



② 1/4" (th) clear acrylic sign panel with sides and back painted to match Dark Gray.

④ White tactile messaging centered horizontally and vertically on sign face between top of sign and rule line. Messaging to be in all caps. Font: Helvetica Regular, 5/8" cap.

④ 1/32" (h) printed White rule line.

④ White tactile and braille to be centered horizontally on sign face and aligned as shown below rule line. Font: Helvetica Regular.

Side View

I-3 Front View

ADA requires that tactile characters on a sign must be mounted between 48" and 60" from the tactile character baseline to the floor. Mounting this sign at 60" to the top will ensure it is compliant with ADA guidelines.

Sign Type

I-3 Utility Room ID

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

① **Metallic Silver** Natural Satin Anodized Aluminum
② **Grey** PMS 431C
③ **GVSU Blue** PMS 301C
④ **White**
⑤ **Black**
⑥ **Light Gray** PMS Cool Gray 1C
⑦ **Light Blue** PMS 299C

Notes

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Date	Description

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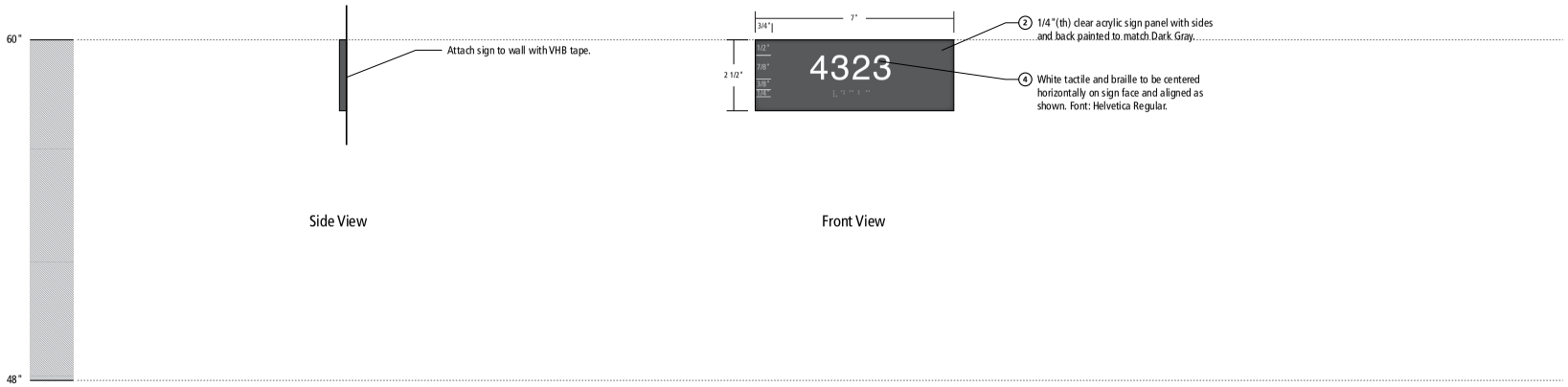
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



ADA requires that tactile characters on a sign must be mounted between 48" and 60" from the tactile character baseline to the floor. Mounting this sign at 60" to the top will ensure it is compliant with ADA guidelines.

Sign Type

I-4 Room Number ID

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. Metallic Silver — Natural Satin Anodized Aluminum
2. Grey — PMS 431C
3. GVSU Blue — PMS 301C
4. White
5. Black
6. Light Gray — PMS Cool Gray 1C
7. Light Blue — PMS 299C

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Date	Description

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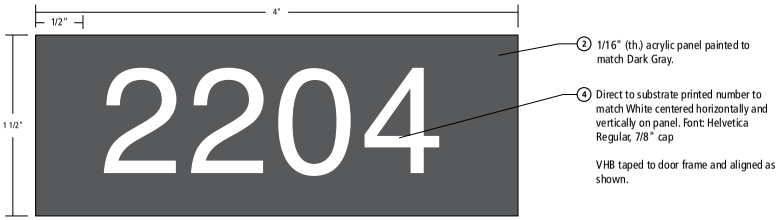
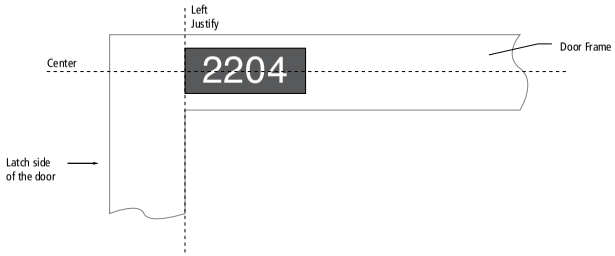
Contract Holder to use same size and type of mounting screw throughout interior program.





Sign Type

I-5 Door Frame Label

Scale

1" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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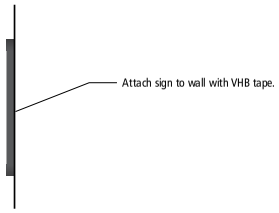
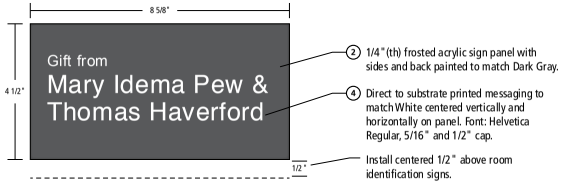
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View



Front View

Sign Type

I-6 Donor Name ID

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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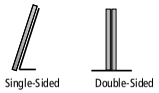
*TEXT USED FOR LAYOUT PURPOSES ONLY

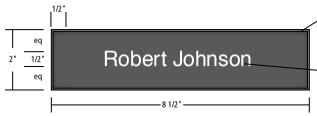
Contract Holder to use same size and type of mounting screw throughout interior program.

Single-Sided modules feature one sign frame attached to a formed aluminum counter-top stand, displayed at an 18 degree angle.

Double-Sided modules feature two sign frames signs attached back-to-back, displayed vertically via a counter top stand and base.



Side View



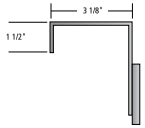
Front View

1. Anodized aluminum frame with acrylic pocket with gray border.
4. 2. Printed insert. Center messaging horizontally and vertically in grey field.

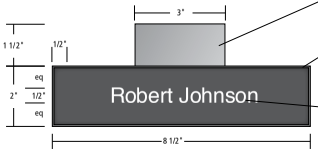
Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.

I-7 Counter Top

Aluminum clips are custom fabricated to specified dimensions and adhered to the back of the sign frame.



Side View



Front View

1. Bent aluminum bracket
1. Anodized aluminum frame with acrylic lens with gray border lens.
4. 2. Printed insert. Center messaging horizontally and vertically in gray field to slide between lens and frame.

Printed sign insert to be minimally printed at 1200 DPI using pigment-based UV inks on a white, satin finish photo paper, with a matte UV over-laminate. The thickness of the insert must be heavy enough so that no wrinkles or waves will occur once installed into the sign.

I-7a Office Partitions

Sign Type

I-7 Cubicle ID

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

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Date	Description

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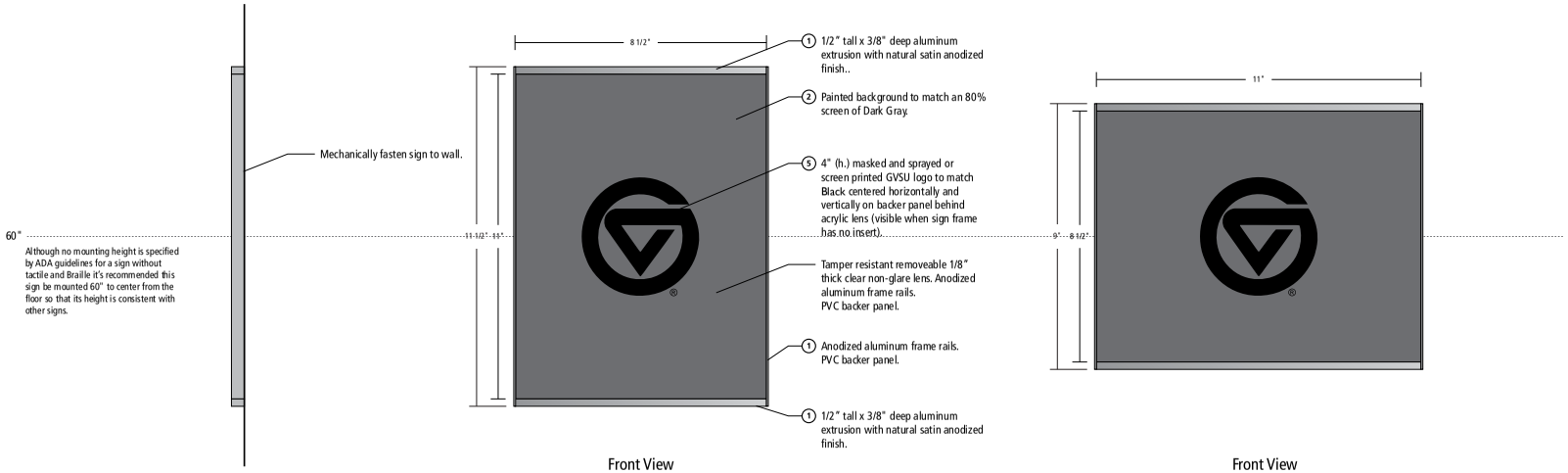
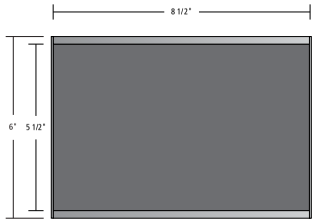
Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View
N-1 Notice Holder - Portrait

Front View
N-1a Notice Holder - Landscape



Front View
N-1b Notice Holder - Custom

Signs are supplied empty. GVSU will provide inserts after frames are installed.

Inserts can be pre-printed or customized using a simple word processing template. If a template is created it should use the system fonts in the Helvetica family whenever possible. White paper can be used but avoid using colors that do not match the system.

Sign Type

N-1 Notice Holder - Letter, Portrait

N-1a Landscape

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by the Owner.

Date	Description

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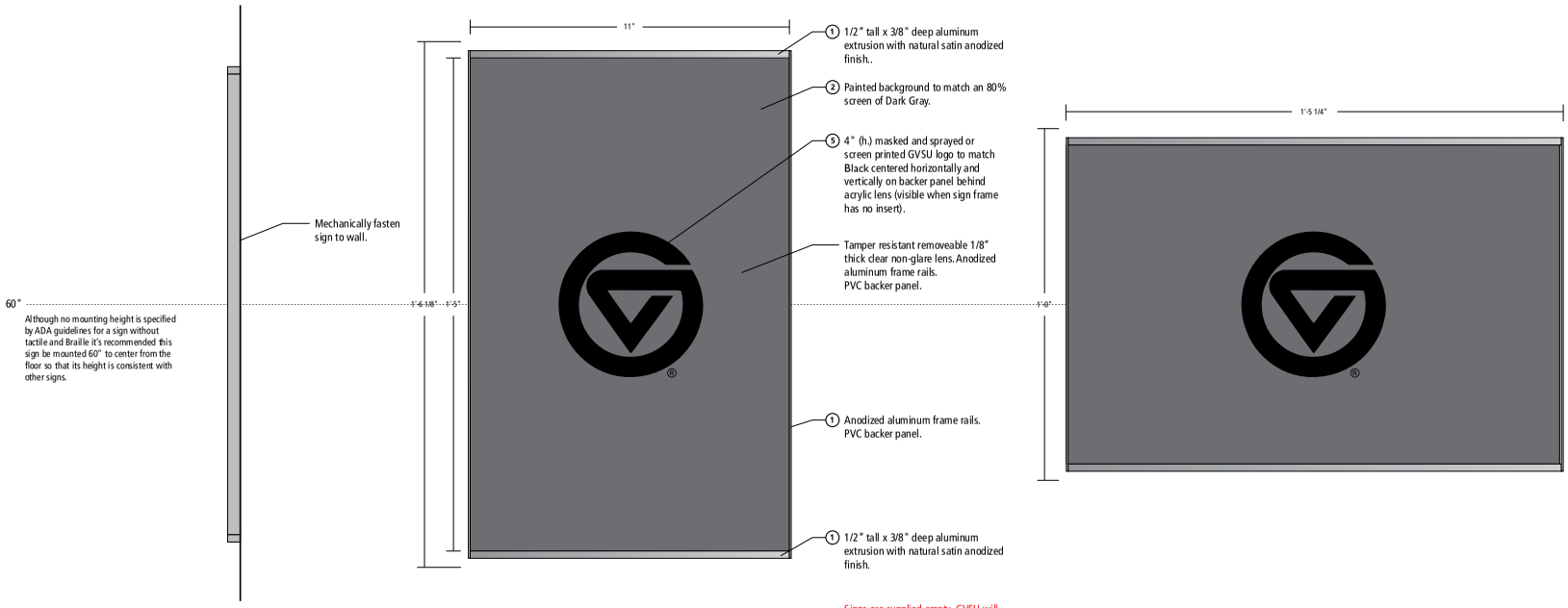
Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View
N-2 Notice Holder - Portrait

Front View
N-2a Notice Holder - Landscape

Signs are supplied empty. GVSU will provide inserts after frames are installed.

Inserts can be pre-printed or customized using a simple word processing template. If a template is created it should use the system fonts in the Helvetica family whenever possible. If necessary a sans serif typeface like Arial can be used so that it looks compatible with the system. White paper can be used but avoid using colors that do not match the system.

Sign Type

N-2 Notice Insert - Tabloid, Portrait

N-2a Landscape

Scale

2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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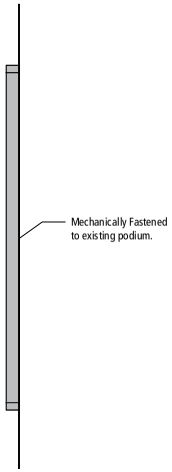
Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View
Lectern ID Sign

Sign Type

N-3 Lectern ID Sign

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431 C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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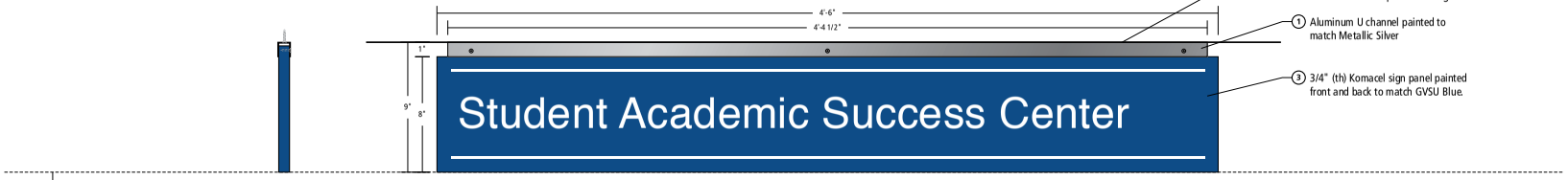
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

NOTE: Mounting conditions will vary. Fabricator to verify each location and determine if ceiling grid clips, cable suspension or other mounting method is required.



Flush-mounted overheads are installed by securing U channel to ceiling with screws or by clips for attachment to suspended ceilings.

1 Aluminum U channel painted to match Metallic Silver

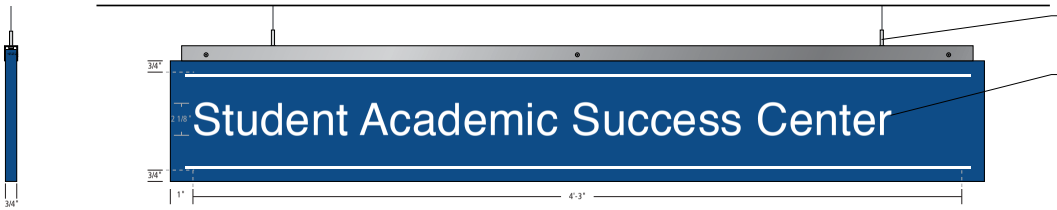
3 3/4" (th) Komacel sign panel painted front and back to match GVSU Blue.

Side View

Front View

Install a minimum 7'-0" (84") from the bottom of sign to the floor

ADA guidelines state that no objects, including signs, shall protrude more than 4" from wall surfaces or 12" from posts or pylons in a horizontal zone between 27" from the floor to 80" from the floor. Overhead signs may not hang down below 80" from the bottom of the sign to the floor. However, for this project we recommend the minimum dimension from floor to bottom of sign fall at 84" for optimum visibility.



Cable suspended from ceiling. (Carl Stahl Swaged Radiused Head End Stops part #869-0200 for mounting or appproved alternative)

4 Surface applied opaque vinyl messaging to match White centered horizontally and vertically on sign face. Font: Helvetica Regular, 2 1/8" cap.

Side View

Layout View

Sign Type

O-1 Overhead ID - Large - Double Sided

O-1a Single Sided

Scale

1 1/2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

NOTE: Mounting conditions will vary. Fabricator to verify each location and determine if ceiling grid clips, cable suspension or other mounting method is required.

Flush-mounted overheads are installed by securing U channel to ceiling with screws or by clips for attachment to suspended ceilings.

1 Aluminum U channel painted to match Metallic Silver

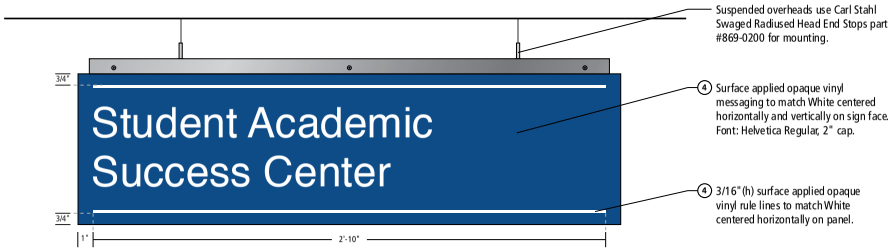
3 3/4" (th) Komacel sign panel painted front and back to match GVSU Blue.

Side View

Front View

Install a minimum 7'-0" (84") from the bottom of sign to the floor

ADA guidelines state that no objects, including signs, shall protrude more than 4" from wall surfaces or 12" from posts or pylons in a horizontal zone between 27" from the floor to 80" from the floor. Overhead signs may not hang down below 80" from the bottom of the sign to the floor. However, for this project we recommend the minimum dimension from floor to bottom of sign fall at 84" for optimum visibility.



Suspended overheads use Carl Stahl Swaged Radiused Head End Stops part #869-0200 for mounting.

4 Surface applied opaque vinyl messaging to match White centered horizontally and vertically on sign face. Font: Helvetica Regular, 2" cap.

4 3/16" (h) surface applied opaque vinyl rule lines to match White centered horizontally on panel.

Side View

Layout View

Sign Type

O-2 Overhead ID - Small - Double Sided

O-2a Single Sided

Scale

1 1/2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1 **Metallic Silver** Natural Satin Anodized Aluminum
2 **Grey** PMS 431C
3 **GVSU Blue** PMS 301C
4 **White**
5 **Black**
6 **Light Gray** PMS Cool Gray 1C
7 **Light Blue** PMS 299C

Notes

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Date	Description

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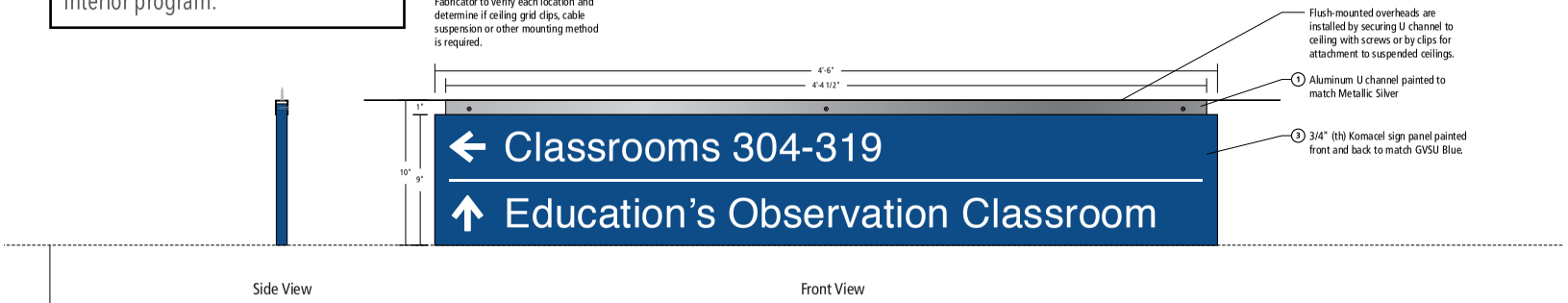
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

NOTE: Mounting conditions will vary. Fabricator to verify each location and determine if ceiling grid clips, cable suspension or other mounting method is required.

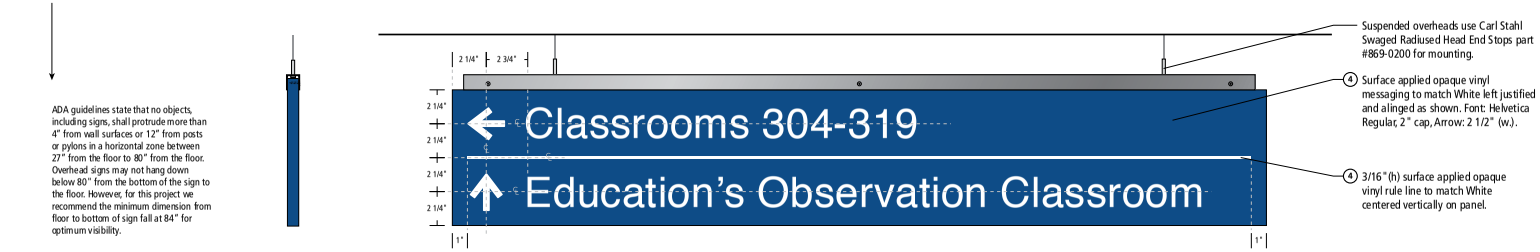


Side View

Front View

Install a minimum 7'-0" (84") from the bottom of sign to the floor

ADA guidelines state that no objects, including signs, shall protrude more than 4" from wall surfaces or 12" from posts or pylons in a horizontal zone between 27" from the floor to 80" from the floor. Overhead signs may not hang down below 80" from the bottom of the sign to the floor. However, for this project we recommend the minimum dimension from floor to bottom of sign fall at 84" for optimum visibility.



Side View

Layout View

Single Destination Layout

Sign Type

O-3 Overhead Guide - Large - Double Sided

O-3a Single Sided

Scale

1 1/2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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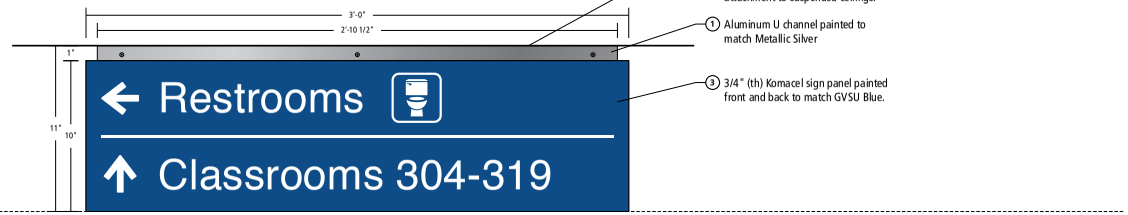
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

NOTE: Mounting conditions will vary. Fabricator to verify each location and determine if ceiling grid clips, cable suspension or other mounting method is required.

Side View



Front View

Flush-mounted overheads are installed by securing U channel to ceiling with screws or by clips for attachment to suspended ceilings.

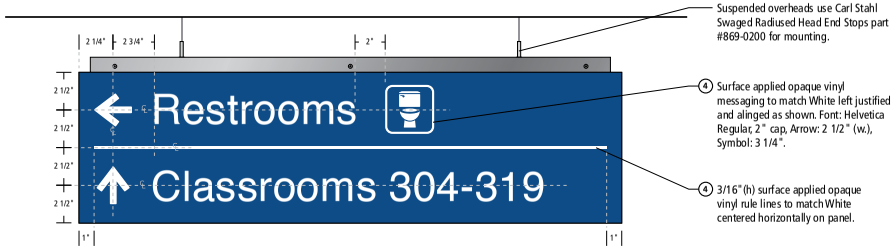
1 Aluminum U channel painted to match Metallic Silver

3 3/4" (th) Komacel sign panel painted front and back to match GVSU Blue.

Install a minimum 7'-0" (84") from the bottom of sign to the floor

ADA guidelines state that no objects, including signs, shall protrude more than 4" from wall surfaces or 12" from posts or pylons in a horizontal zone between 27" from the floor to 80" from the floor. Overhead signs may not hang down below 80" from the bottom of the sign to the floor. However, for this project we recommend the minimum dimension from floor to bottom of sign fall at 84" for optimum visibility.

Side View

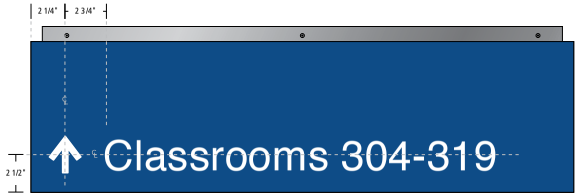


Layout View

Suspended overheads use Carl Stahl Swaged Radiused Head End Stops part #869-0200 for mounting.

4 Surface applied opaque vinyl messaging to match White left justified and alinged as shown. Font: Helvetica Regular, 2" cap, Arrow: 2 1/2" (w.), Symbol: 3 1/4".

4 3/16" (h) surface applied opaque vinyl rule lines to match White centered horizontally on panel.



Single Destination Layout

Sign Type

O-4 Overhead Guide - Small - Double Sided

O-4a Single Sided

Scale

1 1/2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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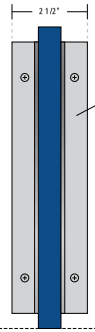
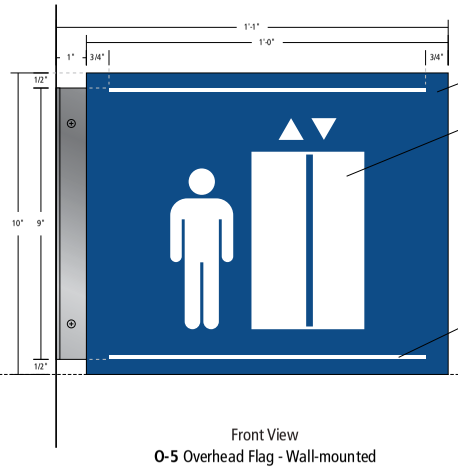
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



1 Mounting bracket fabricated from 1/8" (th.) anodized aluminum. Mechanically fasten to wall with countersunk screws.

Side View



3 3/4" (th) Komacel sign panel painted front and back to match GVSU Blue.

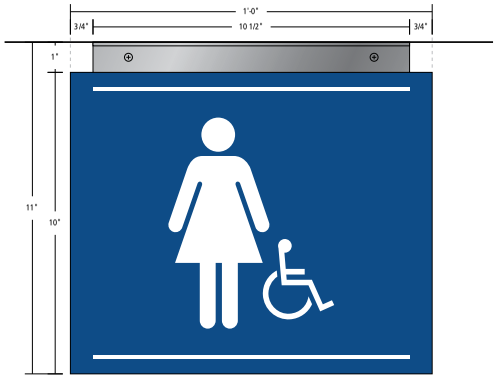
4 7"(h) surface applied opaque vinyl symbol to match White centered horizontally and vertically on sign panel.

4 1/8"(h) surface applied opaque vinyl rule lines to match White centered horizontally on panel.

Front View
O-5 Overhead Flag - Wall-mounted

Install a minimum 7'-0" (84") from the bottom of sign to the floor

ADA guidelines state that no objects, including signs, shall protrude more than 4" from wall surfaces or 12" from posts or pylons in a horizontal zone between 27" from the floor to 80" from the floor. Overhead signs may not hang down below 80" from the bottom of the sign to the floor. However, for this project we recommend the minimum dimension from floor to bottom of sign fall at 84" for optimum visibility.



Front View
O-5a Overhead Flag - Ceiling-mounted

Sign Type

O-5 Overhead Flag - Wall Mounted

O-5a Ceiling Mounted

Scale

2 1/2" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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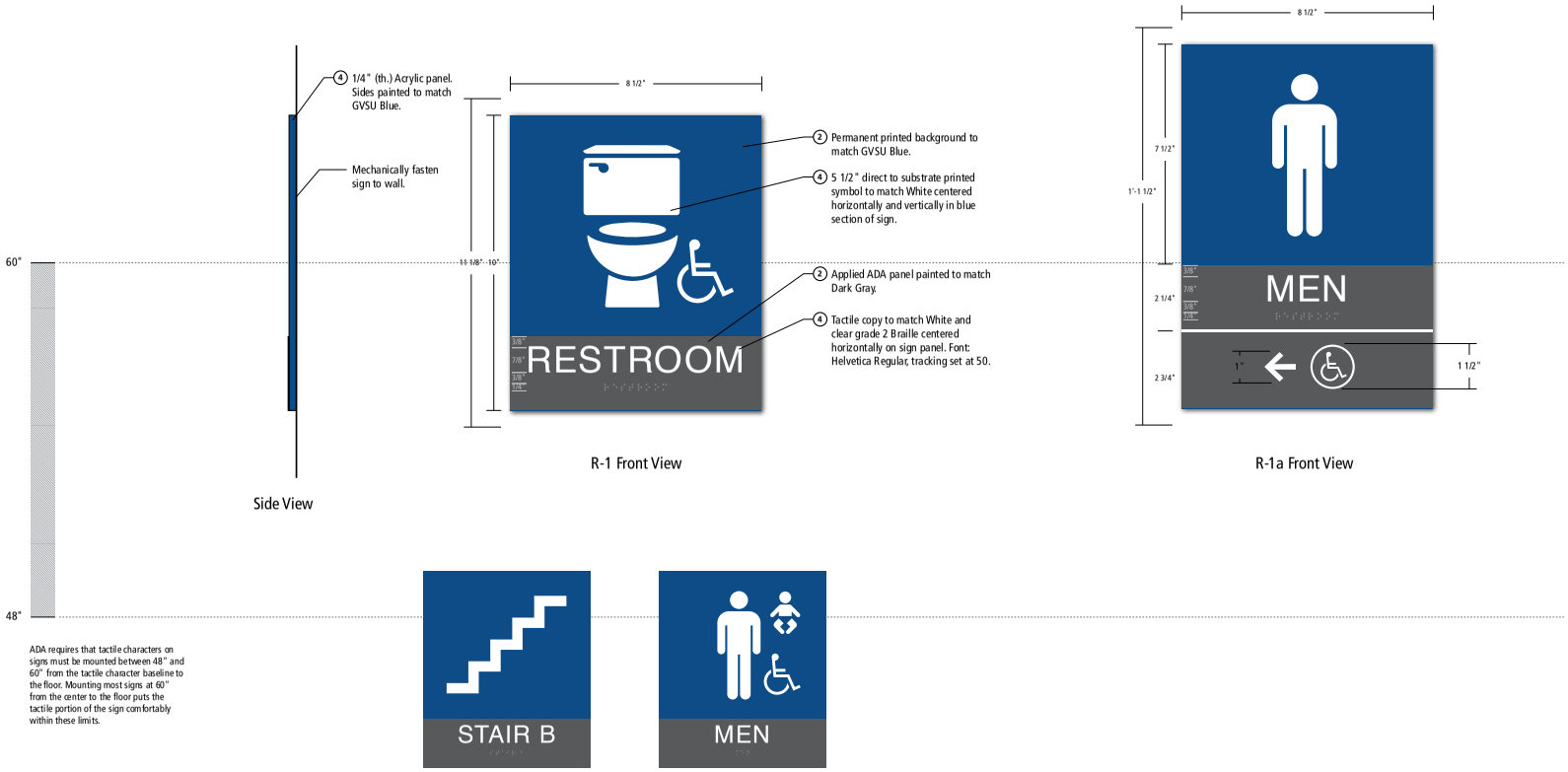
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

R-1 Front View

R-1a Front View

Alternate Layouts

ADA requires that tactile characters on signs must be mounted between 48" and 60" from the tactile character baseline to the floor. Mounting most signs at 60" from the center to the floor puts the tactile portion of the sign comfortably within these limits.

Sign Type

R-1/1a Regulatory Identification

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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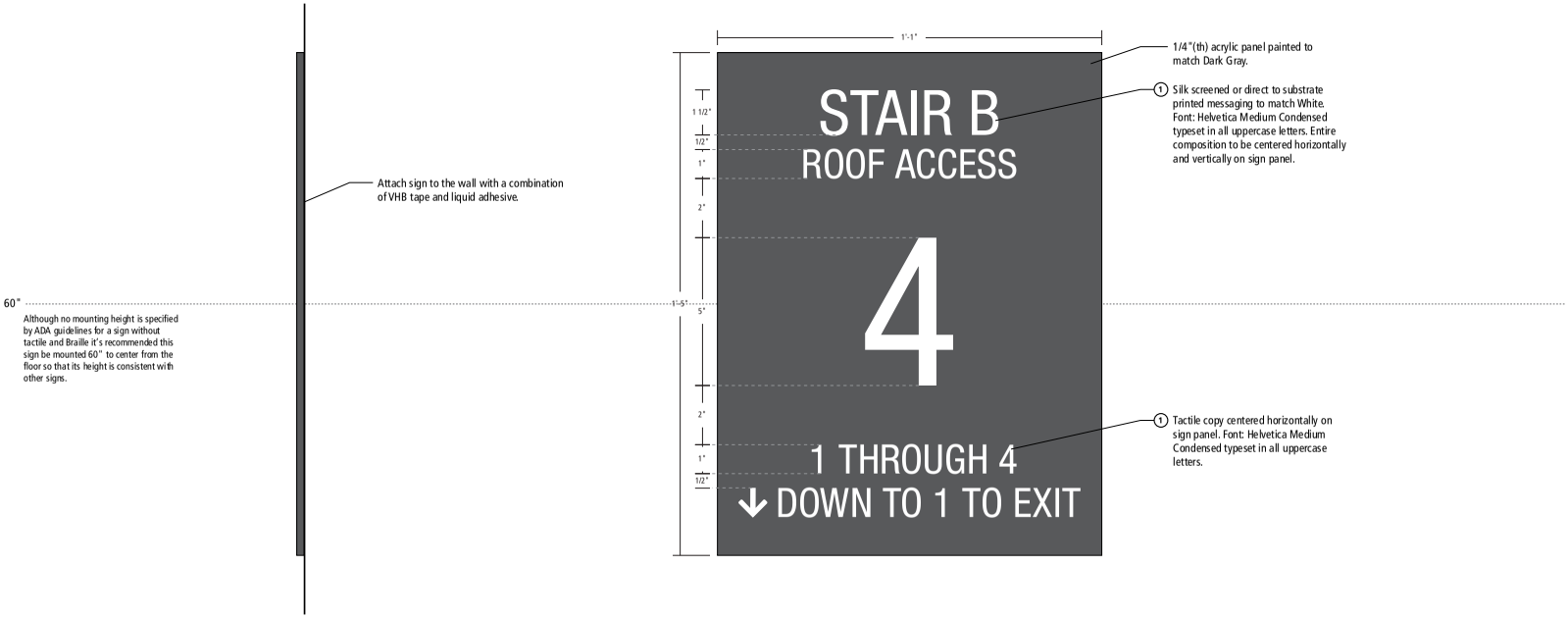
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.



Side View

Front View

Sign Type

R-2 Regulatory Interior Stair

Scale

3" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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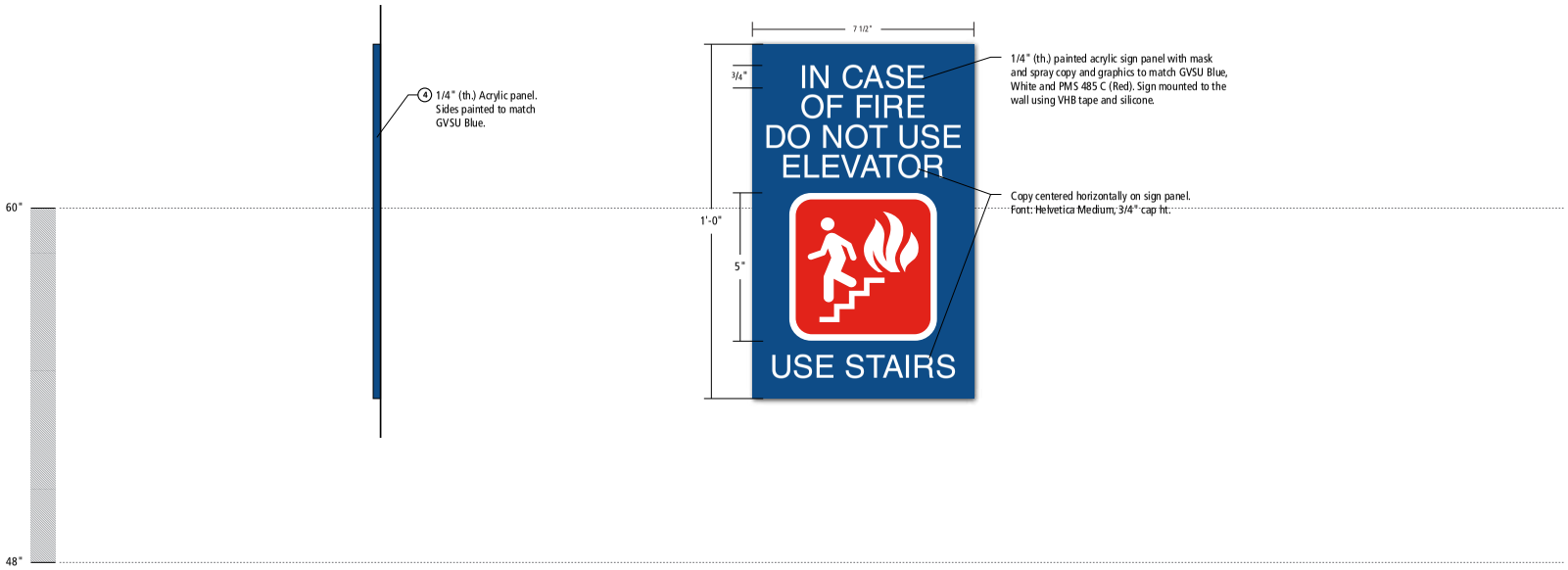
*TEXT USED FOR LAYOUT PURPOSES ONLY

Contract Holder to use same size and type of mounting screw throughout interior program.

Sign to be updated.



ADA requires that tactile characters on signs must be mounted between 48" and 60" from the tactile character baseline to the floor. Mounting most signs at 60" from the center to the floor puts the tactile portion of the sign comfortably within these limits.

Sign Type

R-3 Regulatory In Case of Fire

Scale

1" = 1'-0"
(on an 11 x 17 sheet)

Color Code

1. **Metallic Silver** Natural Satin Anodized Aluminum
2. **Grey** PMS 431C
3. **GVSU Blue** PMS 301C
4. **White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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APPENDIX A

Exterior Wayfinding Documentation

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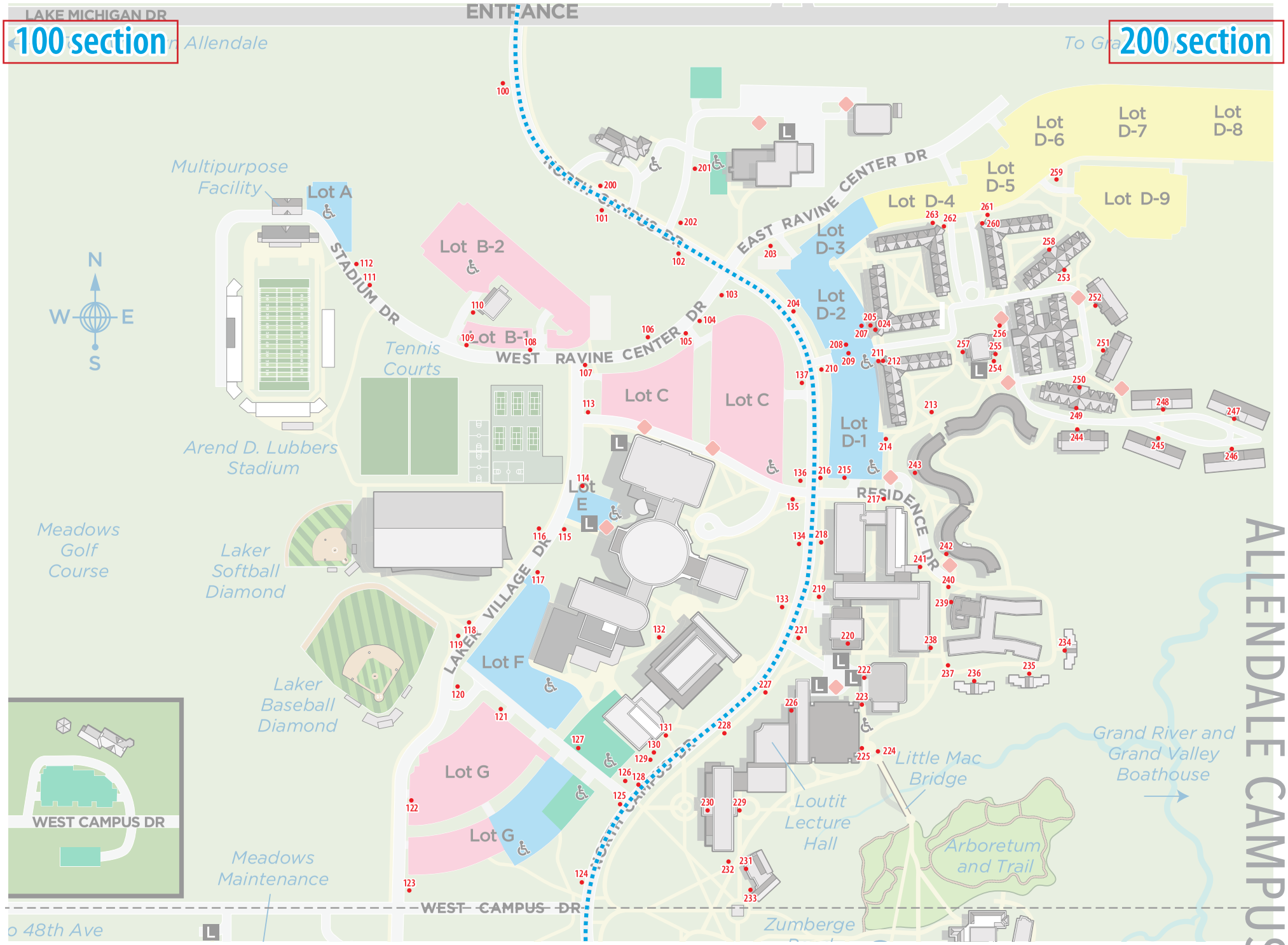

See sheet 2 for Allendale Campus South

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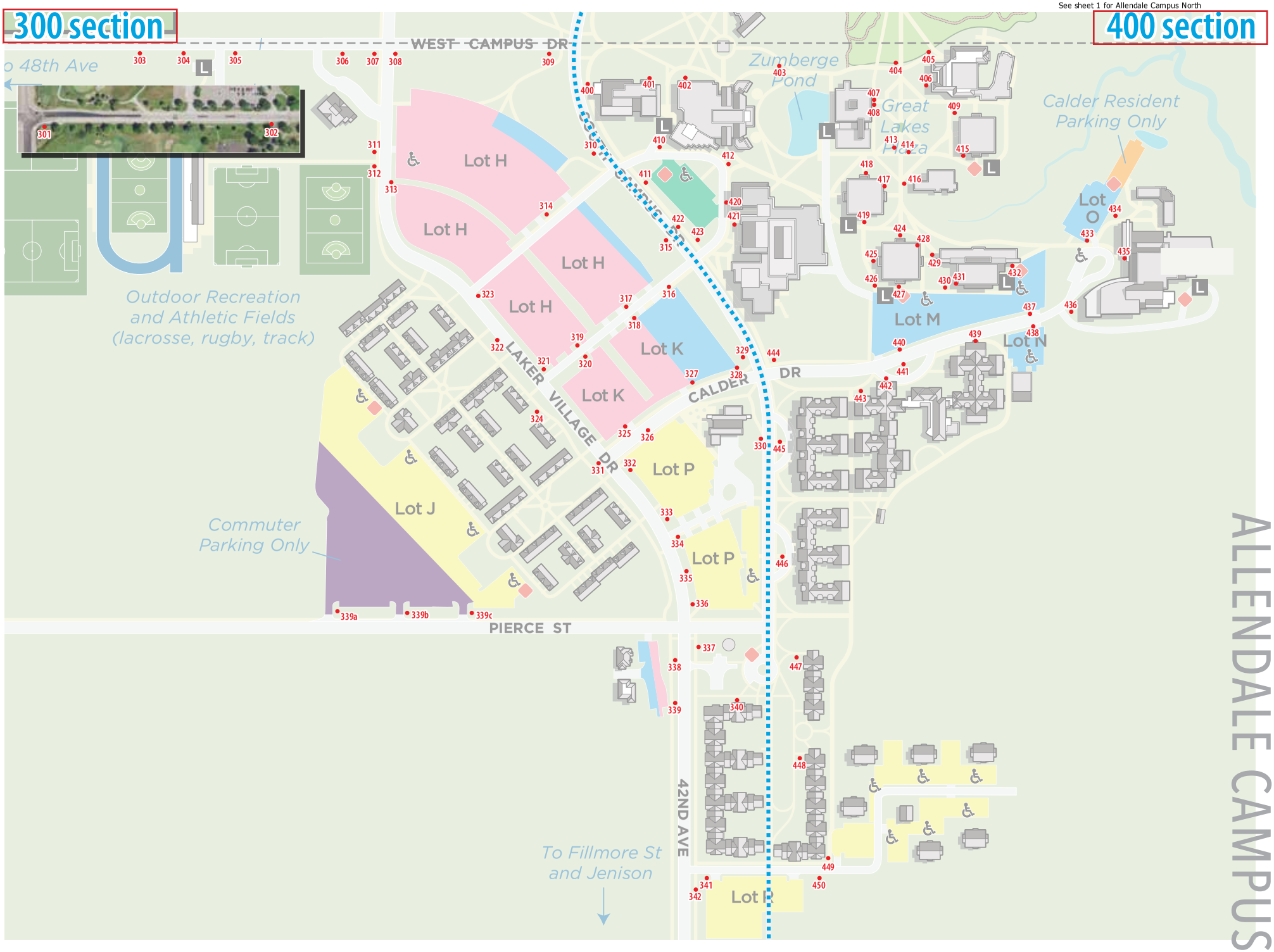
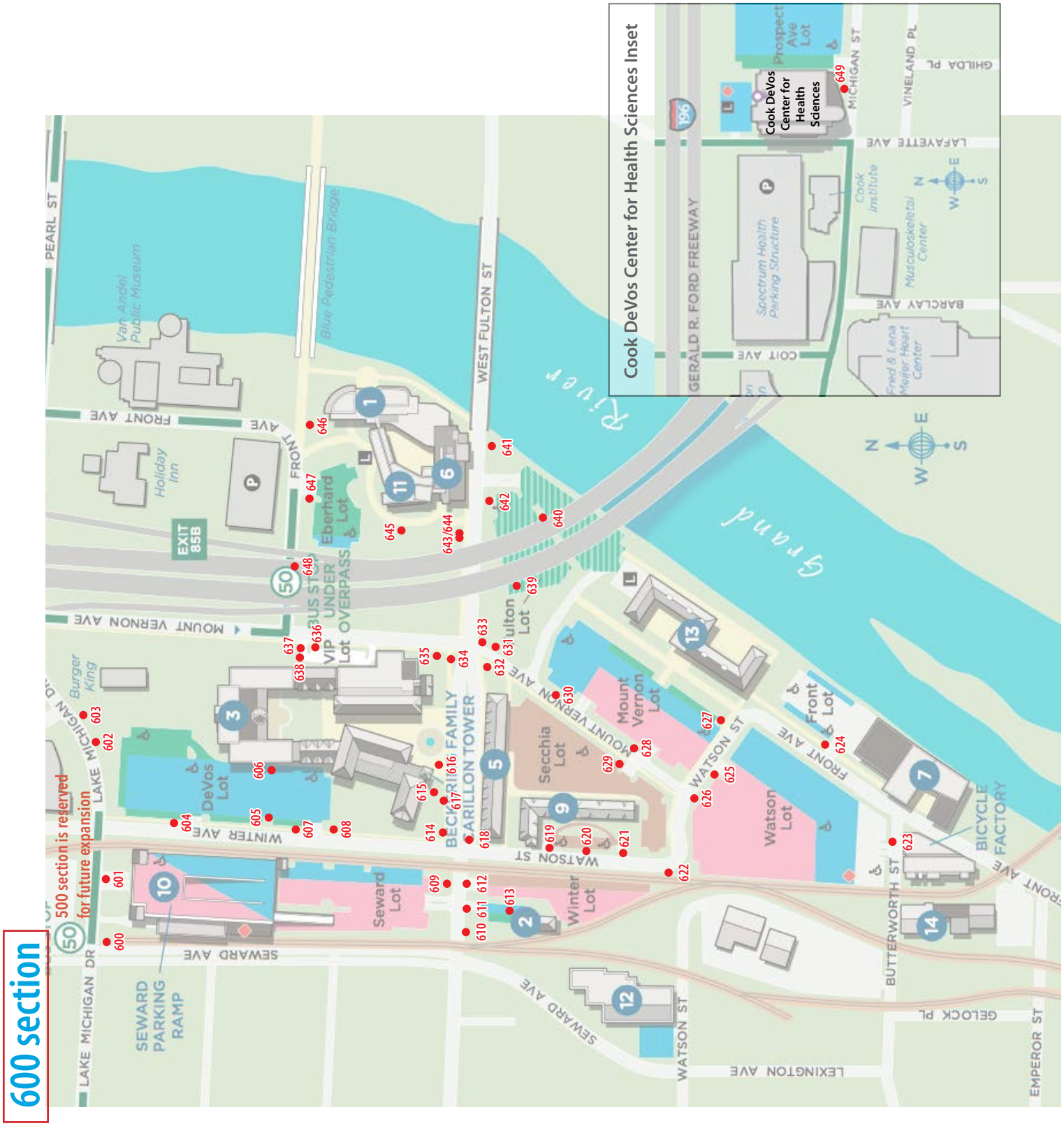
ALLENDALE CAMPUS

See sheet 1 for Allendale Campus North





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GVSU SIGN MESSAGE SCHEDULE REFERENCE

Full Sign Message Schedule is listed in the Appendix

①

SIGN LOCATION PLAN
A site plan that graphically identifies the location of each proposed sign (within as close a position possible relative to the plan's small scale).

②

SIGN MESSAGE SCHEDULE
A document that defines each sign by sign number, sign type, the direction the sign faces, campus, and proposed messaging. When possible, a photograph has been included to show the exisitng conditions.

③

FULL SIGN TYPE ARRAY -
Use File: REPLACEMENT SIGNAGE PROGRAM
A document that defines in detail "the look" of all the proposed sign types. It includes preliminary dimensions, typography specifications, color specifications, proposed material specifications, and proposed methods of fabrication.

When reviewing the sign location plan and message schedule with the design intent drawings, we suggest first referring to the full sign type array first. If more details or specified layouts are required, then refer to the specific drawing for that sign type.

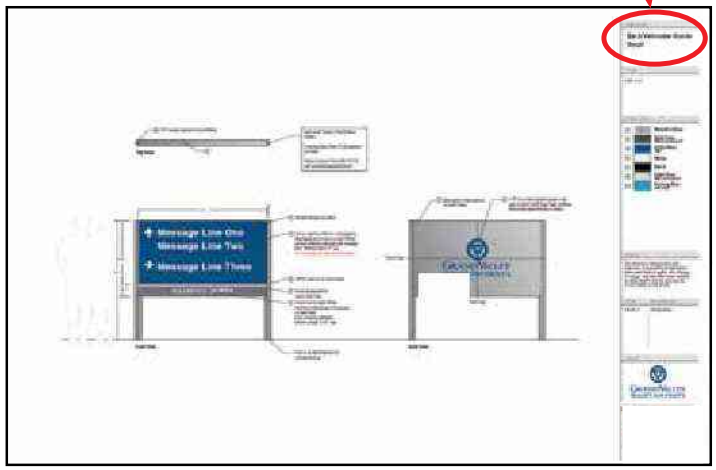
Unique number to identify specific sign.

Sign type code and sign type indicating which design in shfould be used.

Recommended messaging for new or retrofit signs.

Location specific notes including Campus and sign face direction.

Photo of existing conditions. For reference only.



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APPENDIX B

Fabrication Specifications

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GVSU EXTERIOR FABRICATION SPECIFICATIONS

1.0 FABRICATION SPECIFICATIONS

A. Section includes specifications related to fabrication and installation of exterior project signage.

1. Sign type details are listed in the Design Intent Drawings. Design drawings are provided to the Contract Holder in PDF format, or in Adobe Illustrator CC 2015
2. Sign Location Plans are general in nature and not to scale. They reflect locations deemed desirable for the effectiveness of the overall wayfinding plan. Sign location plans are provided to the Contract Holder in PDF format
3. The Sign Message Schedule includes sign type, exact messaging, layout details, and provides additional installation or graphic layout information specific to each sign location. Contract Holder will be provided information in PDF format sorted by sign type and by sign number.
4. The materials, products, equipment and performance specifications within these documents describe the standard of required function, dimension, appearance, performance and quality to be met by the Contract Holder.

B. Contract Holder's responsibilities:

1. Engineer, fabricate and install all signage and graphics per the final documents provided at contract award.
2. Be knowledgeable of relevant federal, state and local code requirements, and be responsible for ensuring that all signs meet applicable local, state and federal codes, especially, but not limited to, ADA and Fire/Life Safety codes.
3. Perform complete structural design and engineering of the signs and incorporate all the safety features necessary to adequately support the sign for its intended use and purpose, as required for approvals and permits, and to protect the Owner. All signs shall meet local, state and federal codes as required. Engineered shop drawings for project signage shall be reviewed, stamped and signed by a Michigan-registered engineer. Shop drawings are to be provided for all sign elements.
4. Engineer all signs, banners and mounting devices, unless otherwise indicated, to withstand the required wind load (normal to the sign, in addition to the weight of the sign) as specified by ASCE, American Society of Civil Engineers, or greater as per local, state or federal code.
5. Signs listed in the sign message schedule should match those on the sign location plan. Contract Holder to notify the Owner's Representative of any discrepancies before manufacturing the signage.
6. Visit the site to observe existing conditions, verify mounting conditions and space availability, take field measurements and verify all signage locations with Owner's Representative prior to starting fabrication.
7. Develop graphic proofs of all sign faces using messaging from Sign Message Schedule.
8. Secure any and all necessary permits for signage installation.
9. Work with the Owner's Representative to secure any necessary variances.
10. Notify the Owner's Representative immediately if any discrepancies exist within the Construction Documents or field conditions.
11. Provide all submittals outlined in the specifications in a timely fashion and according to the agreed upon contract schedule.
12. Work with the Owner's Representative to coordinate with other trades performing work on site.
13. Maintain all project related files such that the Owner may reorder additional signs for a minimum of 10 years after the completion of the work. Owner to own all drawings.

1.1 WARRANTY

A. Extend in writing all manufacturers' warranties.

B. Obtain a minimum five (5) year extended warranty on all paint and powder coat applications.

C. Obtain a minimum eight (8) year warranty on all custom color vinyl or flood-coated vinyl applications. Vinyl shall not fade excessively, discolor, crack, peel, blister, or loose reflectivity.

D. Obtain a minimum five (5) year warranty on all applied vinyl applications. Vinyl shall not fade, discolor, delaminate, crack or curl.

E. Provide a written full replacement warranty for five (5) years starting from the completion of installation that all signs will be free of defects due to craft work and materials including, but not limited to:

1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
2. Corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).
3. Corrosion of fasteners.
4. The assemblies not remaining true and plumb on their supports.
5. Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
6. Peeling, delamination or warping ("oil canning").
7. Repair and reinstallation of signage due to failed mountings.
8. Paint staining on surfaces below mounted sign position.

F. Repair or replace, including installation, any defective signs or hardware, which develop during the warranty period and repair any damage to other work due to such imperfections at no charge to the Owner and to the Owner's satisfaction and schedule.

G. The Contract Holder will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that were submitted to the Contract Holder upon award of contract.

1.2 DESIGN RIGHTS

A. The Contract Holder is hereby granted limited right to the designs as shown and specified herein for the sole purpose of completing contractual obligations to fabricate and install project signage. Contract Holder may not manufacture, reproduce or exhibit these designs, or modify them for any other purpose without prior written consent from the Owner.

1.3 SUBMITTALS

A. Pre-Fabrication Submittals: Submit the following to the Owner's Representatives for review and approval prior to commencing with signage fabrication.

1. Shop Drawings: Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11" be stamped by an Engineer licensed in the State of Michigan to ensure structural integrity and safety. The shop drawings for each sign type shall illustrate/describe the following:
   a. Elevations and cross sections – front, sides, top and back; side sections; internal structure section/details; enlarged details such as of extrusions, mounting plate; and access panel, etc.; with all final dimensions and call-outs for:
   b. Components – construction details/information related to individual elements
   c. Materials – color (PMS swatch and production sample) , type, gauge, and thickness (including substrates and overlays)
   d. Finishes – color, type of product, manufacturer, and sheen
   e. Fonts, graphics specifications and message fields
   f. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
   g. Foundation details – provide detailed foundation details including all concrete and reinforcement specifications.
   h. Engineering for wind load
   i. Removable panels (where applicable)
   j. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.
2. Samples: Submit two (2) 5"x5" samples of each material listed in the design intent material specifications using actual substrate materials for review and approval. One will be returned, one kept by the Owner's Representative.
   a. Label the back of every sample with the project name, sample designation and Contract Holder name.
   b. The Owner's Representative reserves the right to reject any sample and require additional samples as necessary to obtain final approval.
3. Keystroke Proofs: Provide a proofing document of final production keystroke output for all sign messages to verify line breaks, character and word spacing, and interline spacing.
   a. The proofs are to be scaled production art files, not full sized.
   b. Layouts are to be organized by sign type and by sign number within each sign type group.
   c. Each layout is to be identified with the corresponding sign number.
4. Schedule: Provide a detailed fabrication and installation schedule.
   a. Include all pertinent dates and milestones such as submittal delivery dates, required approval dates, fabrication dates and installation dates.
   b. Include all lead times for materials and third-party supplied items.
   c. Allow a minimum of 15 business days for Owner Representative review with one round of revisions built in unless otherwise noted within the bid schedule.
   d. Include submittal delivery dates.
   e. Priority given to bid document instructions .

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B. During Fabrication Submittals:
   1. Contract Holder is required to maintain the detailed fabrication and installation schedule, submitting weekly updates as changes occur.
   2. Upon request, Contract Holder is to submit photo documentation of signage at various stages of fabrication and installation. Review of these photos does not rule out rejection of the sign during the punch list if they do not meet fabrication requirements.

C. Post-Fabrication Submittals: Upon completion of the initial installation, the following are to be submitted to the Owner's Representatives.
   1. Maintenance instructions and manuals for all sign components (paint, etc.), along with final amended shop drawings, as-installed sign location plans and approved keystroke documents.
   2. Instructions for maintenance and waxing of painted, powder coated and fiberglass elements.
   3. Templates for all insert based signs, utilizing standard software for the Owner's use in printing replacement inserts.
   4. One (1) pint of each finish paint color for touch-up purposes.
   5. Warranty documentation, as outlined above (final payment is held until this received).

1.4 QUALITY ASSURANCE

A. The materials, products, equipment and performance specifications described within, establish a high quality standard of required function, dimension, appearance, performance and quality to be met by the Contract Holder.

B. Materials used for this project shall be new materials, not reconditioned.

C. Contract Holder shall only use workforce skilled and experienced with the products, fabrication methods, and installation requirements outlined for this project.

D. Fabrication and installation is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. It is the Contract Holder's responsibility to suggest alternate fabrication or installation methods, should they be deemed necessary to hinder theft or vandalism.

E. Regulatory Requirements: Signage shall meet or exceed requirements of all current applicable codes, including, but not limited to:
   1. Applicable MUTCD standards manual;
   2. Applicable Americans with Disabilities Act Standards for Accessible Design, including local modifications and amendments; and
   3. Building and Fire Codes.

1.5 DELIVERIES, STORAGE AND MATERIAL HANDLING

A. Pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage.

B. Provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.

C. Recommend covering all sign faces with a low-tack protective vinyl cover, to be removed after installation. This is to help minimize minor scratches and nicks that happen during unpacking and installation.

D. Coordinate the delivery and secure storage of signs with the Owner's Representative to meet deadlines.

2.0 MANUFACTURERS

A. Substitution:
   1. No substitution will be considered unless the Owner's Representative have received written request for approval.
   2. Equal or better equipment or method may be recommended, but Contract Holder will be required to provide full documentation, upon request, establishing such a substitution's equality or superiority as measured in: compliance with the visual design intent, cost, ease of maintenance, and performance.
   3. The Owner's Representative decision of approval or disapproval of a proposed substitution shall be final.

B. Approved manufacturers include:
   1. Acrylic Polyurethane Paint: Matthews Paint Company, Akzo Nobel or approved equal
   2. Exterior Vinyl: 3M
   3. Exterior Extrusions: See Design Intent Drawings for details
   4. Adhesive Silicone: Dow Corning or equivalent
   5. Adhesive Tape: Polyfoam or "Isotac" by 3M or equivalent

2.1 Materials

A. Aluminum: suitable for ornamental work. Finish to be smooth and free of imperfections. Alloy based upon structural requirements of the signage design.

B. Aluminum sheet: .125" minimum thickness unless otherwise specified.

C. Aluminum plate: .25" minimum thickness unless otherwise specified.

D. Structural Steel: galvanized rolled steel or equal as required to meet structural requirements.

E. Adhesive vinyl: opaque color, reflective color, translucent color and transparent color.

F. Exterior grade paint: acrylic polyurethane paint in solid and metallic colors with primer and Super Satin Clearcoat finish. (Clearcoat must protect against mineral deposits.)

G. Matthew's Paint reflective white paint, 3M Matte White Light Enhancement Film or approved equal.

H. Miscellaneous mounting hardware: including but not limited to, screws, bolts, stainless steel cable, hinges, and adhesives. Contract Holder to provide Owner's Representative with a standard kit of fasteners.

I. Labels: Only labels required by law are permitted on the exterior of the sign face.
   1. Labels shall not be on the primary messaging faces of the sign, unless dictated so by the local ordinance.
   2. Labels shall be located in a position as discreet as possible.
   3. No other labels are permitted on the signs.
   4. Fabricator contact information may be placed inside the sign on the access panel.

J. Fiberglass panels with embedded artwork are to be fabricated using 1/8" thick fiberglass panel with permanently embedded digital graphics. The panel must be a solid, one-piece panel with all graphic elements inseparable from the fiberglass in which they are embedded.

K. All printed graphics shall be printed at a minimum of 1200 DPI using exterior grade UV inks.

L. High pressure laminate: Digital graphic surface papers encapsulated with melamine resins are pressed over a portion of recycled post-consumer kraft paper core sheets impregnated with phenolic resin. These sheets are bonded under pressures greater than 1200 pounds per square inch and at temperatures approaching 300°F (149°C). The 0.040" backs are sanded to facilitate bonding to other substrates.

2.2 FABRICATION

A. Details on design drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and service at the installed locations.

B. Site-verify all locations to determine special installation requirements, uneven footing needs based on sloped grades. Field verify measurements for wall mounted and glass mounted signage, etc. prior to fabrication.

C. Fabricate signage such that major components of the sign can be removed and replaced with similar components. Incorporate this changeability such that it does not promote vandalism, but can be done by a qualified maintenance crew.

D. Within fabrication tolerances, allow for expansion and contraction of materials due to temperature changes as appropriate to the project location.

E. Construction Methodology:
   1. The drawings call for a variety of fabrication techniques.
   2. Sign faces are to be fabricated using aluminum plate of varying thicknesses, as specified on design drawings, with a minimum thickness of .125 inches unless otherwise noted.
   3. Conceal all fasteners except for access panels or where approved otherwise by Owner's Representative. Access panel fasteners are to be stainless steel, tamper resistant, counter-sunk flush screws, painted to match adjacent finish.
   4. All hardware and fasteners within reach shall be vandal resistant.
   5. Any sign faces smaller than 8' by 20' are to be fabricated from 1 piece of seamless material.
   6. To prevent electrolysis, separate all ferrous and non-ferrous materials with a non-conductive gasket or barrier and utilize stainless steel fasteners as required.
   7. Welded joints:
      a. Exposed welded joints must be filled and ground smooth so that there is no seam visible when painted.
      b. Dimensional and structural welding defects will not be accepted, including but not limited to: poor weld contours, including excessive bead convexity and reinforcement, and considerable concavity or undersized welds; cracks; undercutting; porosity; incomplete fusion; inadequate penetration; spatter; and non-metallic inclusions.

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c. Welding is to be performed by AWS (or similar) certified personnel, following AWS Standard Welding Procedure Specifications (SWPSs) for steel, aluminum, and stainless steel as appropriate.

8. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
9. Drain holes:
   a. Provide drain holes as needed to prevent accumulation of water within signs.
   b. Holes must be inconspicuous and located such that drainage does not occur onto signs, or other surfaces subject to staining.
   c. Provide internal system of baffles to prevent "light leaks" through drain holes of illuminated signs.
   d. Use color-coordinated stainless steel bug mesh screen over drain holes or vents.
10. Non-illuminated sign faces are to have lettering and graphics created as surface-applied vinyl typography unless otherwise noted in the design drawings.
11. Visible metal joints must adhere to a fit tolerance of .01".
12. Sign panels shall be appropriately pre-drilled/pre-cut before priming and painting or coating.

F. Painting:
1. Metal surfaces are to be painted per the most recent Matthews Paint or Akzo Nobel product bulletins or approved equal.
2. Paint preparation of all metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching.
3. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or Akzo Nobel or approved equal published recommendations.
4. Aluminum and Steel surfaces to be properly covered with a primer.
5. Acceleration of the drying process is not allowed.
6. All paint and powder coat finishes to be a satin finish unless otherwise noted in the design drawings.
7. All painted surfaces to have a clearcoat finish to add UV protection and protection from the elements.

G. Silk-screen, digital printing and vinyl copy:
1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means.
2. Cutting shall be done such that edges and corners of finished letterforms will be straight, sharp and true.
3. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.
4. Copy is to match the sheen of the copy panel background (satin).
5. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.
6. Silk-screened images shall be executed with photo-processed screens prepared from original electronic art.
7. Use only weather- resistant coating materials that are compatible with substrates.
8. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage.
9. Images shall be uniform in color and ink thickness.
10. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height.

3.0 DEMOLITION

A. It is required that the Contract Holder remove all existing signs as noted in the included Demolition plan. OR It is required that the Contract Holder remove existing signs as identified in the bidding documents. OR The owner will manage all demolition and site repair.

B. Contract Holder is to remove all below grade footings and foundations completely and fill with compacted soil. OR Contract Holder is to remove below-grade footings and foundations to a minimum depth of 8" below grade and repair landscaping.

C. For individual letters, Contract Holder is to remove the sign, fill holes with owner approved materials, power wash the façade and touch-up paint as required.

D. If there are electrical connections, they must be properly terminated.

E. Contract Holder is responsible for disposal of existing signage. Recycling is recommended. Open dumping is prohibited. Owner trash bins are not available. Coordinate with Owner's Representative.

F. Contract Holder is to repair and bring to consistent look with surrounding area, any areas damaged or left exposed in an unfinished condition due to the removal of a sign.

3.1 INSTALLATION

A. Permits and Variances:
1. Research relevant code requirements and honor the same in fabrication and installation.
2. Secure any and all necessary permits for signage installation. Coordinate with the Owner to secure variances, should any be required.
3. Coordinate with the Owner to have all underground utilities properly located and marked. Any damage to below-grade utilities or structures for which the Owner or Owner's Representative has provided adequate location information is the responsibility of the Contract Holder.

B. Site Visit:
1. Ensure that every building-mounted sign location has the necessary blocking for safe and secure mounting. Where additional blocking is needed, recommend changes and additional associated costs, and receive approval prior to beginning installation.
2. The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location for each sign. Any necessary adjustments will be made with the approval of the Owner.

C. If installation subcontractors are utilized, the Contract Holder must provide a company representative to act as on-site supervisor through the duration of the installation process to oversee any subcontracted installation work. All on-site labor must be skilled and experienced in this type of installation.

D. Contract Holder to maintain current signage and directional information during installation in order to continue to provide proper wayfinding. This can be done through the use of temporary signs, or vinyl over existing sign faces.

E. Contract Holder to coordinate delivery of signage with the Owner's Representative.

F. Contract Holder to provide a site logistics plan indicating the work areas, proposed equipment and power sources, extent and duration of street closures, and schedule time/dates of the respective sign installations. This schedule is to be updated on a weekly basis if changes occur.

G. Masonry/Footings:
1. All concrete bases for signage are to be poured in place from thoroughly mixed and agitated concrete.
2. Footings are to extend beneath the frost line, or deeper to meet local code.
3. All footings or bases should be poured within a form and level with grade unless otherwise specified in the design drawings or as specified by state or local code.
4. Foundation/footings should not extend above grade more than 4" and exposed edges should be finished with a bevel to prevent chipping, unless otherwise indicated in Design Intent Drawings.
5. It's recommended that the concrete be floated by machine or hand before finishing in order to embed larger aggregates especially when part of the footing or base extends above ground.
6. Concrete surface should have a smooth or brushed finish grade appearance. Match the finish appearance of connecting concrete surfaces when applicable.
7. All concrete bases and footings should be edged to break any bond with the form and create a neat appearance. All forms should be removed once the concrete has properly cured.
8. Provide the necessary templates, mounting plates and hardware for concrete and masonry bases.
9. All masonry (concrete block, poured concrete, brick, slab, veneer, mortar, etc.) is to be properly treated and protected to maintain the structural integrity of the masonry work with exposure to all environmental conditions found at the site. For exposed or visible masonry, this shall include the application of protective sealers or similar finishes to diminish the effects of close-proximity sprinkling or irrigation systems.
10. Wet concrete with footers and posts must fully cure in place before signage is installed on the footers or mounted to the posts.

H. Mounting:
1. Signs are to be mounted on J-bolt footings or breakaway bases, centered on the concrete base or footing, and engineered per code, unless otherwise specified in the design drawings or required by code.
2. For all bolts, nuts, washers and other fasteners, Contract Holder to match material and finish as used in sign. When fastening dissimilar materials, use stainless steel 300 series and all bolts, nuts, washers, or other fasteners be stainless steel.
3. Contract Holder is required to specify mounting hardware and anchoring per the engineering of the signage. The visual appearance of the sign is not to be compromised from that shown in the design drawings.
4. Install all signage products such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding, sticking or blocking.
5. All signs to be mounted level and true, and within the guidelines of applicable codes including, but not limited to, the Standards for Accessible Design (ADA) and fire/life safety codes, where applicable.
   a. If signs are to be installed in a parking garage where the structural elements are not level due to the grade of the garage, the Owner is to decide whether the sign should be mounted level or aligned with the structural elements.

I. Sign Locating:
   1. Contract Holder's installers must have applicable understanding of the Standards for Accessible Design (ADA) mounting guidelines, and other applicable codes, general sign locating practices, and any particular unique installations.
   2. Installers are to follow the regulations, noted guidelines, and architectural details around an installation location for placement.
   3. Keep a reasonable distance from protruding objects.
   4. Any signage that is improperly located is to be moved to the proper location, and all repairs to wall surfaces and signage are to be handled by the Contract Holder .
   5. If the installers have questions about any sign locations, they can contact the Owner's Representative for on-site options or install per design drawing. If there is a code requirement regarding the sign location, the installer must notify the Owner's Representative of the requirement.

J. Landscaping:
   1. A landscaping bed, minimum 1' wide from each direction around a sign, 6" deep, with aluminum edging and filled with material to match the surrounding landscaping materials, or a concrete pad must be added around each concrete base or sign post as protection from landscaping maintenance. This does not apply to regulatory sign posts.

K. Upon completion of installation, Contract Holder is to remove any protective covering, tape, or installation hardware. Fabricator is then to clean the sign per the manufacturer recommendations, ensuring that sign is clean from dirt, stains, fingerprints, tape residue, etc.

L. All exposed hardware is to be touch-up painted on site as required immediately following installation prior to punch list.

M. All minor blemishes or marring are to be repaired such that the repairs are imperceptible. Components having permanent, non-removable scratches or defects are to be replaced completely.

N. Site Safety and Restoration:
   1. Contract Holders are responsible for their own safety during the installation period.
   2. Maintain a safe environment for pedestrians and vehicular traffic during the installation period, following OSHA safety standards as necessary.
   3. Keep the Owner's premises and the adjoining premises, driveways and streets clean and clear.
   4. Job site shall be left safe, neat and clean at the completion of each day's operation. Trash taken offsite to Contract Holder's receptacle.
   5. In addition to maintaining old or temporary signs for their directional or informational purposes, Contract Holder is to maintain signage that meets or exceeds MUTCD and local standards during the installation period.
   6. At the completion of work, remove all rubbish, tools, equipment, and surplus materials, from and about the premises, and leave the site as originally found.
   7. Repair or correct damage to other contractors' work resulting from signage installation work.

3.2 PUNCH LIST

A. The Contract Holder's onsite representative is to complete a walk through with the Owner's Representative immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner's Representative.

B. Fully replace all signs that are in error relative to the working documents (final sign message schedule and design drawings).

C. Correct any installation misalignments at no charge.

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SECTION 10 14 01 – INTERIOR SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes specifications related to fabrication and installation of interior project signage.
   1. Sign type details are listed in the Design Intent Drawings. Design drawings are provided to the Contract Holder in PDF format, or in Adobe Illustrator.
   2. The materials, products, equipment and performance specifications within these documents describe the standard of required function, dimension, appearance, performance and quality to be met by the Contract Holder.

B. Contract Holder's responsibilities:
   1. Engineer, fabricate and install all signage and graphics per the final documents provided at contract award.
   2. Be knowledgeable of applicable code requirements, and be responsible for ensuring that all signs meet applicable codes.
   3. Perform complete structural design and engineering of the signs and to incorporate all the safety features necessary to adequately support the sign for its intended use and purpose, as required for approvals and permits, and to protect the Owner. All signs shall meet current applicable codes. Engineered shop drawings for suspended project signage and signage weighing more than 20 lbs shall be reviewed, stamped and signed by a Michigan-registered engineer. Shop drawings are to be provided for all sign elements.
   4. Signs listed in the sign message schedule should match those on the sign location plan. Contract Holder to notify the Owner's Representative of any discrepancies before manufacturing the signage
   5. Generate graphic layouts for all sign messages, including necessary tactile and Grade 2 Braille (conforming to all applicable codes) from the sign message schedule meeting the Design Intent Drawing specifications. (Please note that this document was created to comply with the 2010 ADA Standards for Accessible Design. Contract Holder is to confirm compliance with applicable oides.)
   6. Visit the site to observe existing conditions, verify mounting conditions and space availability, take field measurements and verify all signage locations with Owner's Representative prior to starting fabrication.
   7. Notify the Owner's Representative immediately if any discrepancies exist within the Construction Documents or field conditions.
   8. Provide all submittals outlined in the specifications in a timely fashion and according to the agreed upon contract schedule.
   9. Work with the Owner's Representative to coordinate with other trades performing work on site.
   10. Maintain all project related files such that the Owner may reorder additional signs for a minimum of 10 years after the completion of the work.

1.2 WARRANTY

A. Extend in writing all manufacturers' warranties.

B. Obtain a minimum five (5) year extended warranty on all paint and powder coat applications.

C. Obtain a minimum eight (8) year warranty on all custom color vinyl or flood-coated vinyl applications. Vinyl shall not fade excessively, discolor, crack, peel, or blister.

D. Obtain a minimum five (5) year warranty on all applied vinyl applications. Vinyl shall not fade, discolor, delaminate, crack or curl.

E. Provide a written full replacement warranty for five (5) years starting from the completion of installation that all signs will be free of defects due to craft work and materials including, but not limited to:
   1. Bubbling, chalking, rusting or other disintegration of the sign panel, graphics or of the edges.
   2. Corrosion appearing beneath paint surfaces of panels, brackets, posts or other support assemblies (except as an obvious result of vandalism or other external damage).
   3. Corrosion of fasteners.
   4. The assemblies not remaining true and plumb on their supports.
   5. Fading, chalking and discoloration of the colors and finishes within the vinyl and paint manufacturer's stated warranty period.
   6. Peeling, delamination or warping ("oil canning").
   7. Repair and reinstallation of signage due to failed mountings
   8. Paint staining on surfaces below mounted sign positions.

F. Repair or replace, including installation, any defective signs or hardware, which develop during the warranty period and repair any damage to other work due to such imperfections at no charge to the Owner and to the Owner's satisfaction.

G. The Contract Holder will be required to fully replace all signs that are in error relative to the working documents (sign message schedule and sign type drawings) that were submitted to the Contract Holder upon award of contract.

H. Correct any installation misalignments at no charge.

1.3 DESIGN RIGHTS

A. The Contract Holder is hereby granted limited right to the designs as shown and specified herein for the sole purpose of completing contractual obligations to fabricate and install project signage. The Contract Holder may not manufacture, reproduce or exhibit these designs, or modify them for any other purpose without prior written consent from the Owner.

1.4 SUBMITTALS

A. Pre-Fabrication Submittals: Submit the following to the Owner's Representatives for review and approval prior to commencing with signage fabrication.
   1. Shop Drawings: Detailed engineered shop drawings for each sign type are to be submitted as electronic PDF no larger than 11"x 17". The shop drawings for each sign type shall illustrate/describe the following:
      a. Elevations and cross sections – front, sides, top and back; side sections; internal structure section/details; enlarged details such as of extrusions, push-through letter mounting, mounting plate; and access panel, etc.; with all final dimensions and call-outs for:
         1) Components – construction details/information related to individual elements
         2) Materials – color (PMS swatch and production samples) , type, gauge, and thickness (including substrates and overlays)
         3) Finishes – color, type of product, manufacturer, and sheen
         4) Fonts, graphics specifications and message fields
      b. Exploded view, unless otherwise indicated – isometric view with components, materials, and finishes.
      c. Cross-section of corners – one illustration for each corner condition. Items to be illustrated: seams, joints, layers, internal support and fasteners.
      d. Mounting/installation details – provide foundation cross-sections (including hardware), bracket/post details, elevations, materials, finishes and fasteners.
      e. Removable panels (where applicable)
      f. Identify any dimensional or other changes in the overall sign required by virtue of the fabrication materials, techniques and/or engineering.
   2. Samples: Submit samples of each material listed in the design intent material specifications using actual substrate materials for review and approval to the owner.
      a. All material samples to be 3"x3".
      b. Insert artwork samples to be 12" x 12", and are to be at 100% scaled segments of the final insert artwork for interior guide signs, directories and maps
      c. Label the back of every sample with the project name, sample designation and fabricator name.
      d. The Owner's Representative reserve the right to reject any sample and require additional samples as necessary to obtain final approval.
   3. Keystroke Proofs: Provide a proofing document of final production keystroke output for all sign messages to verify line breaks, character and word spacing, and interline spacing.
      a. The proofs are to be scaled production art files, not full sized.
      b. Layouts are to be organized by sign type and by sign number within each sign type group.
      c. Each layout is to be identified with the corresponding sign number.
   4. Schedule: Provide a detailed fabrication and installation schedule.
      a. Include all pertinent dates and milestones such as submittal delivery dates, required approval dates, fabrication dates and installation dates.
      b. Include all lead times for materials and third-party supplied items.
      c. Allow a minimum of 15 business days for Owner Representative review with one round of revisions built in unless otherwise noted within the bid schedule.
      d. Include submittal delivery dates.

B. During Fabrication Submittals:
   1. Contract Holder is required to maintain the detailed fabrication and installation schedule, submitting weekly updates as changes occur.
   2. Upon request, Contract Holder is to submit photo documentation of signage at various stages of fabrication and installation. Review of these photos does not rule out rejection of the sign during the punch list if they do not meet fabrication requirements.

C. Post-Fabrication Submittals: Upon completion of the initial installation, the following are to be submitted to the Owner's Representatives.
   1. Maintenance instructions and manuals for all sign components (paint, etc.), along with final amended shop

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drawings, as-installed sign location plans and approved keystroke documents.

2. Templates for all insert based signs, utilizing standard software for the Owner's use in printing replacement inserts.
3. Warranty documentation, as outlined above.

1.5 QUALITY ASSURANCE

A. The materials, products, equipment and performance specifications described within, establish a high quality standard of required function, dimension, appearance, performance and quality to be met by the Contract Holder .

B. Materials used for this project shall be new materials, not reconditioned.

C. Contract Holder shall only use workforce skilled and experienced with the products, fabrication methods, and installation requirements outlined for this project.

D. Fabrication and installation is to withstand severe abuse and souvenir theft vandalism, but not less than the equivalent of resisting simple hand implements and tools (screwdrivers, knives, coins, keys, and similar items), and adult physical force. It is the Contract Holder's responsibility to suggest alternate fabrication or installation methods, should they be deemed necessary to hinder theft or vandalism.

E. Regulatory Requirements: Signage shall meet or exceed requirements of all current applicable codes, including, but not limited to:

1. Applicable Americans with Disabilities Act Standards for Accessible Design, including local modifications and amendments. (Please note that this document was created to comply with the 2010 ADA Standards for Accessible Design. Fabricator is to confirm compliance with current code.); and
2. Applicable Building and Fire Codes.

1.6 DELIVERIES, STORAGE AND MATERIAL HANDLING

A. Pack, wrap, crate, bundle, box, bag, or otherwise package, handle, transport, and store all fabricated work as necessary to provide protection from damage by every cause.

B. Provide clear and legible identifying information on all product packaging to ensure proper on-site identification and installation.

C. Coordinate the delivery and secure storage of signs with the Owner's Representative to meet deadlines.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Substitution:

1. No substitution will be considered unless the Owner's Representative has received written request for approval.
2. Equal or better equipment or method may be recommended, but will be required to provide full documentation establishing such a substitution's equality or superiority as measured in: compliance with the visual design intent, cost, ease of maintenance, and performance.
3. The Owner's Representative's decision of approval or disapproval of a proposed substitution shall be final.

B. Approved manufacturers include:

1. Acrylic Polyurethane Paint: Matthews Paint Company or Akzo Nobel or approved equal
2. Interior Vinyl: 3M or Oracal
3. Non-glare front lens: Calsak Acrycast LX or equal
4. Acrylic Sheets: Rohm and Hass Co, Acrylite or equal.
5. Adhesive Silicone: Dow Corning or equivalent
6. Adhesive Tape: Polyfoam or "Isotac" by 3M or equivalent

2.2 Materials

A. Aluminum: suitable for ornamental work. Finish to be smooth and free of imperfections. Alloy based upon structural requirements of the signage design.

B. Aluminum sheet: .125" minimum thickness unless otherwise specified.

C. Aluminum plate: .25" minimum thickness unless otherwise specified.

D. Acrylic sheet: varying colors and thicknesses as noted on design intent drawings.

E. Adhesive vinyl: solid color, reflective color, and transparent color.

F. Interior grade paint: acrylic polyurethane paint in solid and metallic colors with primer and satin clearcoat finish, unless otherwise noted.

G. Miscellaneous mounting hardware: including but not limited to, screws, bolts, steel cable, hinges, and adhesives.

H. Fonts: purchase fonts associated with the project. See typography standards within the design package.

I. Labels: Only labels required by law are permitted on the exterior of the sign face.

1. Labels shall not be on the primary messaging faces of the sign, unless dictated so by the local ordinance.
2. Labels shall be located in a position as discreet as possible.
3. No other labels are permitted on the signs.
4. Contract Holder contact information may be placed inside the sign on the access panel.

J. All printed graphics shall be printed at a minimum of 1200 DPI using interior grade UV inks.

K. Aluminum extrusion: 1/2" wide by 3/8" deep aluminum radius extrusion with natural satin anodized finish.

2.3 FABRICATION

A. Details on design drawings indicate a design approach for sign structure but do not necessarily include all fabrication details required for the complete structural integrity of the signs, including consideration for static, dynamic and erection loads during handling, erecting, and service at the installed locations.

B. Site-verify all locations to determine special installation requirements. Field verify measurements for ceiling suspended, wall mounted and glass mounted signage, etc. prior to fabrication.

C. Fabricate signage such that major components of the sign can be removed and replaced with similar components. Incorporate this changeability such that it does not promote vandalism, but can be done by a qualified maintenance crew.

D. Within fabrication tolerances, allow for expansion and contraction of materials due to temperature changes as appropriate to the project location.

E. Construction Methodology:

1. The drawings call for a variety of fabrication techniques.
2. Sign faces requiring aluminum plate of varying thicknesses, as specified on design drawings, with a minimum thickness of .125 inches unless otherwise noted.
3. Conceal all fasteners except for access panels or where approved otherwise by Owner's Representative. Access panel fasteners are to be stainless steel, tamper resistant, counter-sunk flush screws, painted to match adjacent finish.
4. All hardware and fasteners within reach shall be vandal resistant.
5. Welded joints:
   a. Exposed welded joints must be filled and ground smooth so that there is no seam visible when painted.
   b. Dimensional and structural welding defects will not be accepted, including but not limited to: poor weld contours, including excessive bead convexity and reinforcement, and considerable concavity or undersized welds; cracks; undercutting; porosity; incomplete fusion; inadequate penetration; spatter; and non-metallic inclusions.
   c. Welding is to be performed by AWS (or similar) certified personnel, following AWS Standard Welding Procedure Specifications (SWPSs) for steel, aluminum, and stainless steel as appropriate.
7. Non-welded joints between various portions of signs must have a tight, hairline-type appearance, without gaps. Provide sufficient fastenings to preclude looseness, racking, or similar movement.
8. Exposed acrylic edges are to be finished such that no saw marks are visible.
9. Visible metal joints must adhere to a fit tolerance of .01".
10. Sign panels shall be appropriately pre-drilled/pre-cut before priming and painting or coating.

F. Painting:

1. Metal surfaces are to be painted per the most recent Matthews Paint or Akzo Nobel product bulletins.
2. Paint preparation of all metal surfaces of the sign to include removal of all scratches and imperfections, sanding and chemical etching.
3. Substrate cleaning, preparation, paint application and paint thickness to be in strict compliance with Matthews Paint or Akzo Nobel published recommendations.
4. Aluminum and Steel surfaces to be properly covered with a primer.
5. Acceleration of the drying process is not allowed.
6. All paint finishes to be a satin finish unless otherwise noted in the design drawings.
7. All painted surfaces to have a clearcoat finish to add UV protection and protection from cleaning chemicals.

G. Fonts/Typefaces:

1. Fonts used within the Designer's programs were purchased by and are licensed to the Designer. It is the responsibility of the fabricator to purchase the specified licensed fonts for use within this program. See the design intent typography page for the specific fonts.
2. The fabricator is responsible for spacing the letters (Kerning) to meet ADA code requirements.
3. Letter height/cap height is based upon the height of the capital letter "E" or any capital character that has a flat top and base.

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4. Under no circumstances are typefaces to be electronically distorted ("squeezed" or "extended") for purposes of fitting to the specified sign or general alteration of the sign face composition unless noted in the drawings. This includes (but is not limited to) stretching, squeezing, tilting, outlining or shadowing.
5. Ligatures are to be turned off.
6. Apostrophes and quotation marks are to be used, not footmarks and inches. Note that there is a difference in most fonts.
7. Contract Holder to reference spacing within the Design Intent Drawing package. Layout of copy is critical for the proper function of the wayfinding signage. Any typesetting concerns or issues are to be brought to the Owner's Representative for resolution recommendations.
8. Contract Holder is responsible for correcting any typesetting errors that may be necessary.
9. All tactile and grade 2 Braille characters are to be created using the photopolymer or raster dot methods as dictated by code requirements.

H. Silk-screen, digital printing and vinyl copy:
1. All letterforms, symbols or graphics shall be reproduced either by photographic or computer-generated means.
2. Cutting shall be done such that edges and corners of finished letterforms will be straight, sharp and true.
3. Letterforms with nicked, cut, ragged, rounded corners, and similar disfigurements will not be acceptable.
4. Copy is to match the sheen of the copy panel background (satin).
5. Surface of letters shall be uniform in color finish, and free from pinholes and other imperfections.
6. Silk-screened images shall be executed with photo-processed screens prepared from original electronic art.
7. Use only weather- resistant coating materials that are compatible with substrates.
8. Silk-screening shall be highest quality, with sharp lines and no sawtooths or uneven ink coverage.
9. Images shall be uniform in color and ink thickness.
10. Images shall be free from squeegee marks and lines resulting from improper print stroke or screen off contact height.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Review all sign locations with the Owner's Representative and ensure that every location has the necessary blocking for safe and secure mounting. Where additional blocking is needed, recommend changes and additional associated costs, and receive approval prior to beginning installation.

B. The final Sign Message Schedule and Sign Location Plan shall be consulted together and shall be approved by the Owner to determine the precise location for each sign. Any necessary adjustments will be made with the approval of the Owner.

C. If installation subcontractors are utilized, the Contract Holder must provide a company representative to act as on-site supervisor through the duration of the installation process to oversee any subcontracted installation work. All on-site labor must be skilled and experienced in this type of installation.

D. Contract Holder to maintain current signage and directional information during installation in order to continue to provide proper wayfinding. This can be done through the use of temporary signs or temporary mounting of existing signs while walls are repaired.

E. Contract Holder to coordinate delivery of signage with the Owner's Representative.

F. Contract Holder to provide a site logistics plan indicating the work areas, proposed equipment and power sources, and schedule time/dates of the respective sign installations. This schedule is to be updated on a weekly basis if changes occur.

G. Mounting:
1. All signs to be mounted level and true, and within the guidelines of applicable local, state and federal codes including, but not limited to, the standards for Accessible Design (ADA) and fire/life safety codes, where applicable. (Please note that this document was created to comply with the 2010 ADA Standards for Accessible Design. Fabricator is to confirm compliance with applicable code.)
2. For all bolts, nuts, washers and other fasteners, Fabricator to use same basic metal or alloy as the metal being fastened and finished to match. When fastening dissimilar materials, use stainless steel 300 series.
3. Contract Holder to use consistent attachment methods throughout each sign type. When possible, fabricator to use one (1) size secure screw/fastener for all signs in a standard readily available size.
4. Contract Holder is required to specify mounting hardware and anchoring per the engineering of the signage. The visual appearance of the sign is not to be compromised from that shown in the design drawings.
5. Install all signage products such that there are no misalignments between visible components. Sign elements intended to be removable or changeable after installation must function as intended without binding, sticking or blocking.
6. Contract Holder to provide Owner's Representative

H. Locating Signs:
1. Contract Holder's installers must have understanding of the applicable Standards for Accessible Design (ADA) mounting guidelines, and other applicable codes, general sign locating practices, and any particular unique installations. (Please note that this document was created to comply with the 2010 ADA Standards for Accessible Design. Fabricator is to confirm compliance with proper code.)
2. Installers are to follow the regulations, noted guidelines, comments within the Sign Message Schedule and architectural details around an installation location for the best visual placement.
3. Keep a reasonable distance from protruding objects.
4. Any signage that is improperly located is to be moved to the proper location, and all repairs to wall surfaces and signage are to be handled by the Contract Holder.
5. If the installers have questions about any sign locations, they can contact the Owner's Representative for on-site options. If there is a code requirement regarding the sign location, the installer must notify the Owner's Representative of the requirement.

I. Upon completion of installation prior to final punch list, Contract Holder is to remove any protective covering, tape, or installation hardware. Fabricator is then to clean the sign per the manufacturer recommendations, ensuring that sign is clean from dirt, stains, fingerprints, tape residue, etc.

J. All exposed hardware is to be touch-up painted on site as required immediately following installation prior to punch list.

K. All minor blemishes or marring are to be repaired such that the repairs are imperceptible. Components having permanent, non-removable scratches or defects are to be replaced completely.

L. Site Safety and Restoration:
1. Contract Holders are responsible for their own safety and their workers' safety during the installation period.
2. Maintain a safe environment for pedestrians during the installation period, following OSHA safety standards as necessary.
3. Keep the Owner's premises and the adjoining premises, driveways and streets clean and clear.
4. Job site shall be left safe, neat and clean at the completion of each day's operation.
5. In addition to maintaining old or temporary signs for their directional or informational purposes, Contract Holder is to maintain signage that meets or exceeds local standards during the installation period.
6. At the completion of work, remove all rubbish, tools, equipment, tape and surplus materials, from and about the premises, and leave the site as originally found. Owner trash bins are not available.
7. Repair or correct damage to other contractors' work resulting from signage installation work.

3.2 PUNCH LIST

A. The Contract Holder's onsite representative is to complete a walk through with the Owner's Representative immediately following installation to identify any errors, such as construction or installation issues. Such errors are to be corrected in a timely manner, and to the satisfaction of the Owner's Representative.

B. Fully replace all signs that are in error relative to the working documents (final sign message schedule and design drawings).

C. Correct any installation misalignments at no charge.

END OF SECTION

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GVSU

APPENDIX C

Map Artwork

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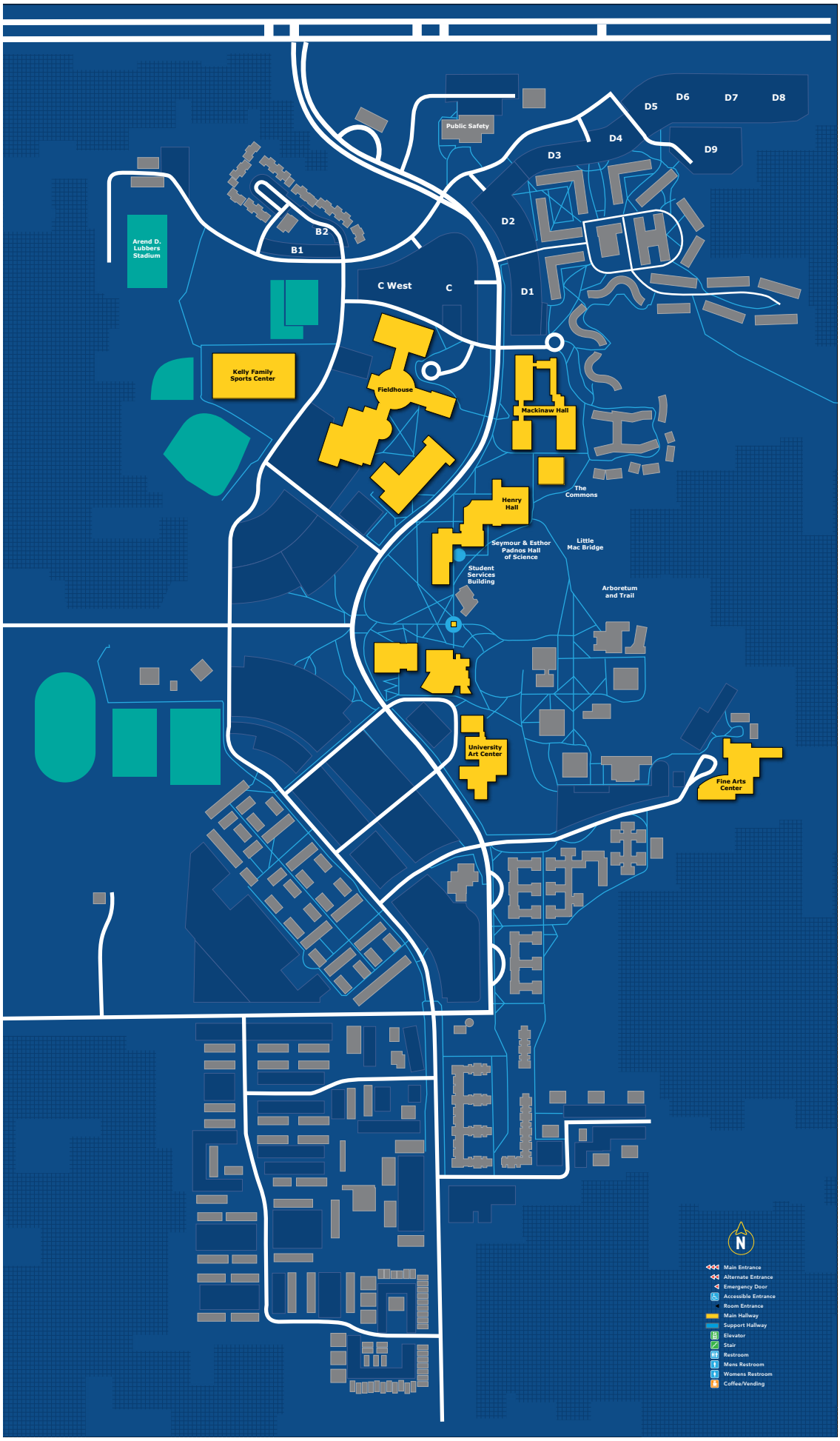

GVSU EXTERIOR MAP ARTWORK SAMPLE

Existing from Institutional Marketing will be placed

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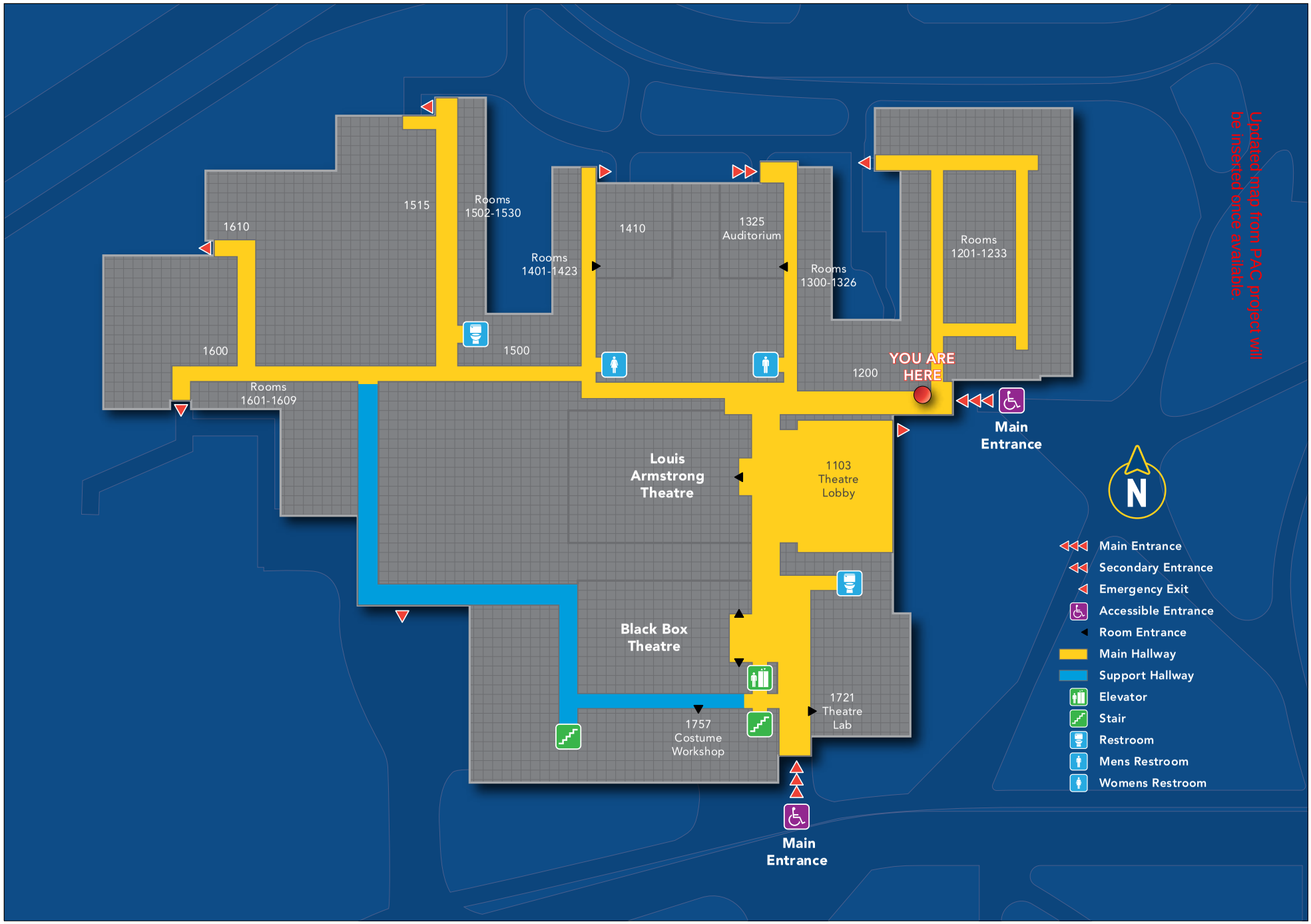

GVSU INTERIOR MAP ARTWORK SAMPLE

Copyright 2018 |

GVSU

APPENDIX D

Parking Signage

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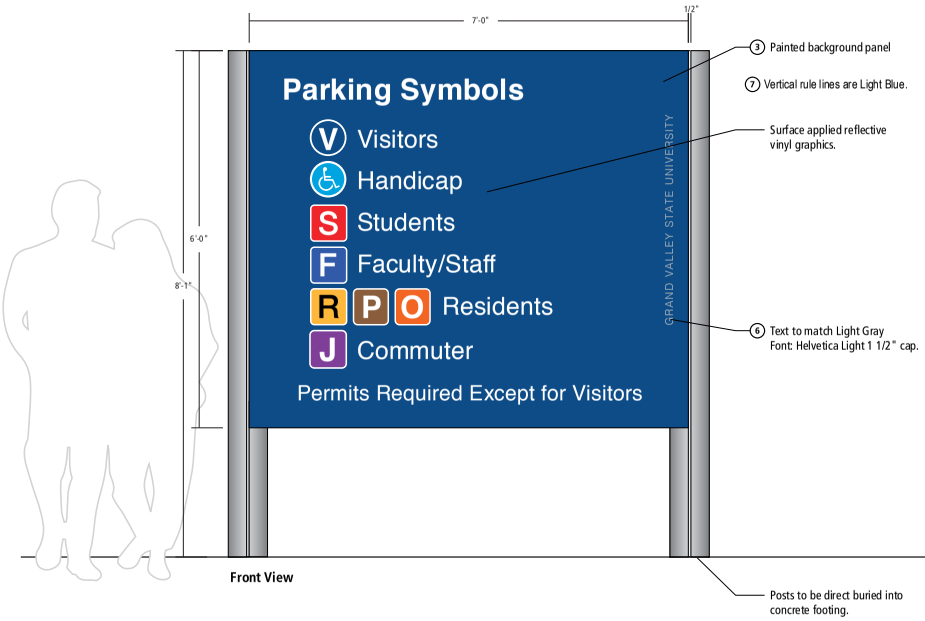
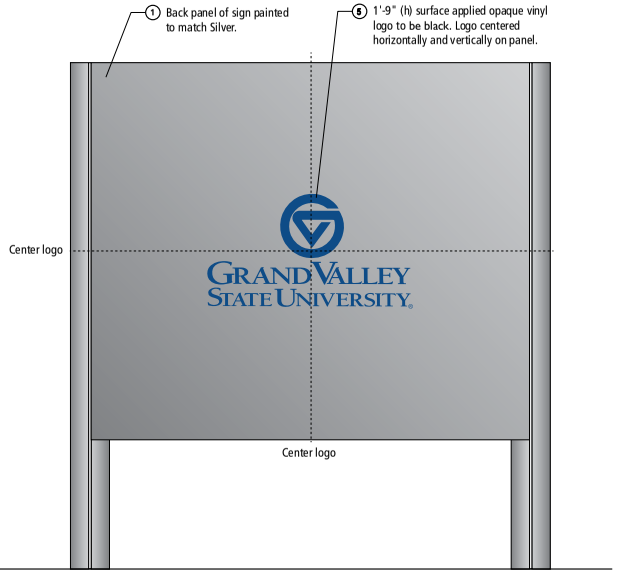
Top View



Front View



Back View

Sign Type

Gx-1a Parking Legend - Large

Scale

1/2" = 1'
When printed on a Tabloid (11x17in) sized document.

Color Code

1. Metallic Silver
2. Dark Gray PMS Cool Gray 11C
3. GVSU Blue PMS 289C
4. Reflective White
5. Black
6. Light Gray PMS Cool Gray 1C
7. Light Blue PMS 299C

Notes

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Date	Description

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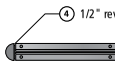
*TEXT USED FOR LAYOUT PURPOSES ONLY

Temporary Panel Option
See Tx-1 sheet for additional details

(2) 1/8"(th) aluminum panel. Panel background to match Dark Gray.
Messaging to be applied white vinyl.

All extruded components to match the architectural system specifications from the 2017 SignComp Industries product line. Any substitutions must meet or exceed these specifications.



Top View

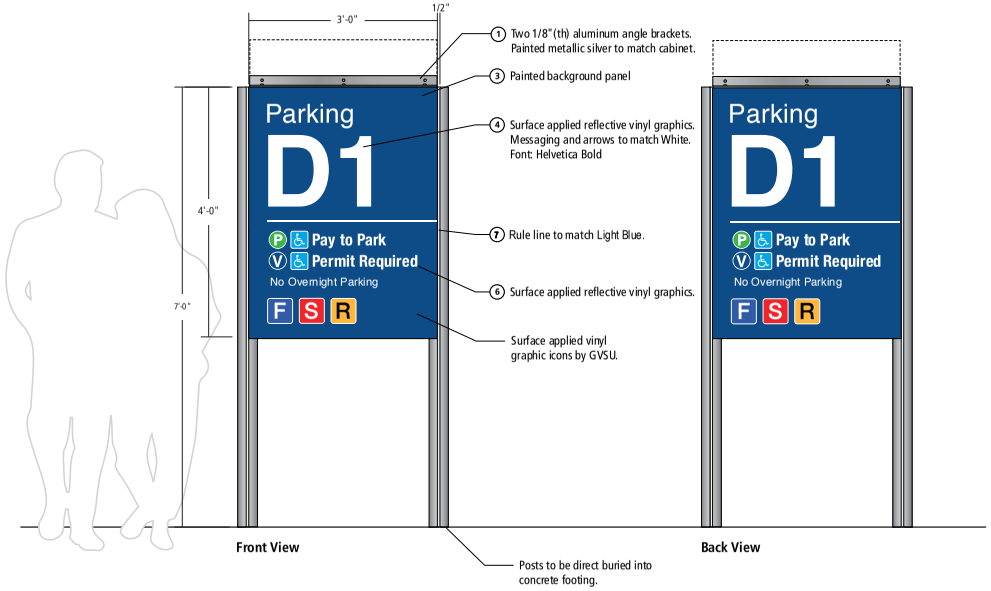
(4) 1/2" reveals painted to match White

(1)

SignComp™ Series 3 Post & Panel System

Frameless Body (Part #1275) painted as noted.

Radius Extrusion Posts (Part #1210) with anodized aluminum finish.



(1) Two 1/8"(th) aluminum angle brackets. Painted metallic silver to match cabinet.

(3) Painted background panel

(4) Surface applied reflective vinyl graphics. Messaging and arrows to match White. Font: Helvetica Bold

(7) Rule line to match Light Blue.

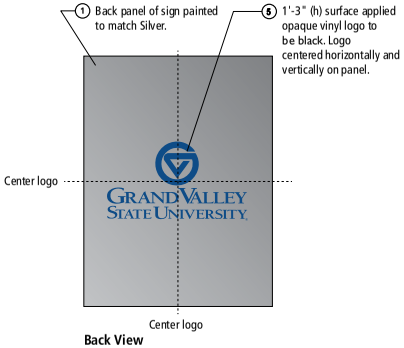
(6) Surface applied reflective vinyl graphics.

Surface applied vinyl graphic icons by GVSU.

Front View

Back View

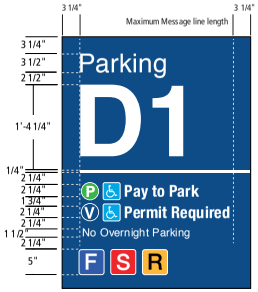
Posts to be direct buried into concrete footing.



(1) Back panel of sign painted to match Silver.

(5) 1'-3" (h) surface applied opaque vinyl logo to be black. Logo centered horizontally and vertically on panel.

Back View
Single-sided messages



Graphic Layout

Sign Type

Ix-3 Parking Identification Large

Scale

1/2" = 1'
When printed on a Tabloid (11x17in) sized document.

Color Code

1. Metallic Silver
2. Dark Gray PMS Cool Gray 11C
3. GVSU Blue PMS 289C
4. Reflective White
5. Black
6. Light Gray PMS Cool Gray 1C
7. Light Blue PMS 299C

Notes

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Date	Description

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*TEXT USED FOR LAYOUT PURPOSES ONLY

All extruded components to match the architectural system specifications from the 2018 Sign Comp Industries product line. Any substitutions must meet or exceed these specifications.

Top View

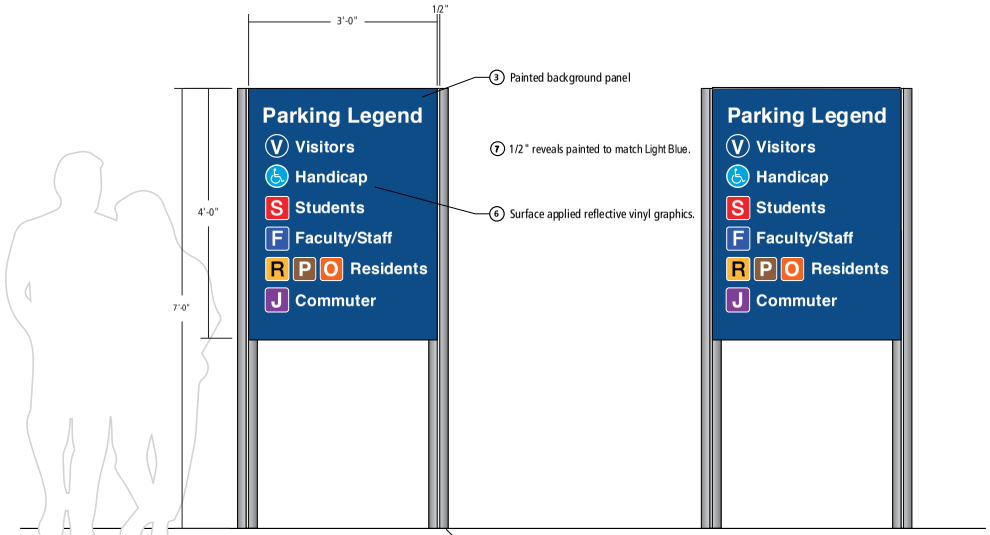
4 1/2" reveals painted to match Light Blue

1

SignComp™ Series 3 Post & Panel System

Frameless Body (Part #1275) painted as noted.

Radius Extrusion Posts (Part #1210) with anodized aluminum finish.



3 Painted background panel

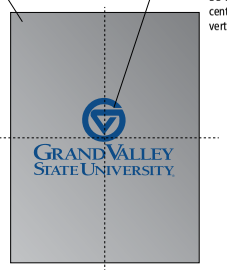
7 1/2" reveals painted to match Light Blue.

6 Surface applied reflective vinyl graphics.

Front View

Back View

Posts to be direct buried into concrete footing.



1 Back panel of sign painted to match Silver.

6 1'-3" (h) surface applied opaque vinyl logo to be black. Logo centered horizontally and vertically on panel.

Center logo

Center logo

Back View
Single-sided messages

Sign Type

Ix-3a Parking Legend - Small

Scale

1/2" = 1'
When printed on a Tabloid (11x17in) sized document.

Color Code

1. Metallic Silver
2. Dark Gray PMS Cool Gray 11C
3. GVSU Blue PMS 289C
4. Reflective White
5. Black
6. Light Gray PMS Cool Gray 1C
7. Light Blue PMS 299C

Notes

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Date	Description

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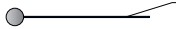
*TEXT USED FOR LAYOUT PURPOSES ONLY

All extruded components to match the architectural system specifications from the 2018 Sign Comp Industries product line. Any substitutions must meet or exceed these specifications.

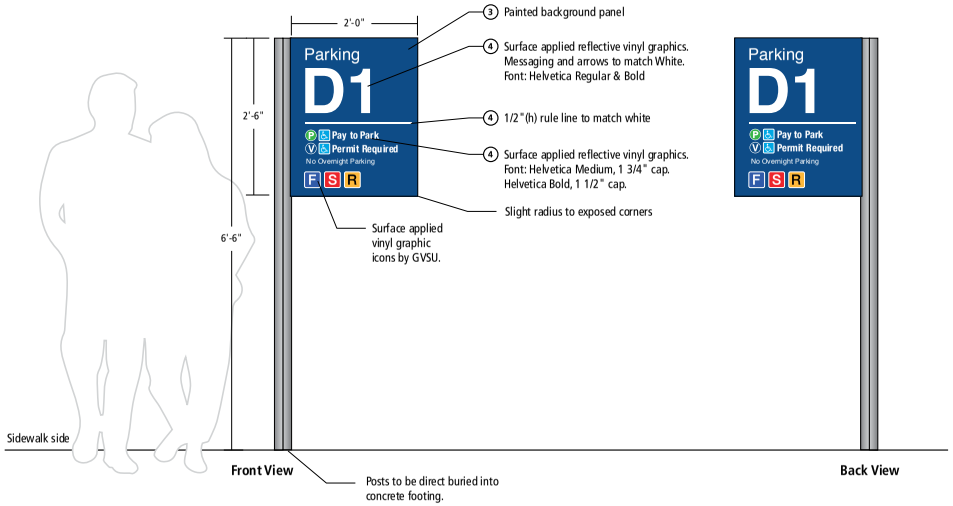


Top View

SignComp™ Series 3 Post & Panel System

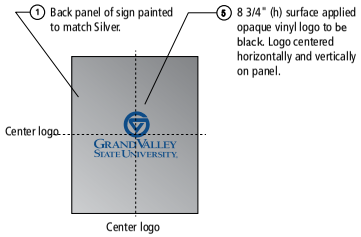
1/8" panel adaptor (Part #1203) and aluminum panel painted as noted.

3 1/4" round post (Part #1237) with anodized aluminum finish.

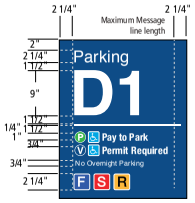


Front View

Back View



Back View
Single-sided messages



Graphic Layout (not to scale)

Sign Type

Ix-4 Parking Identification Small

Scale

1/2" = 1'
When printed on a Tabloid (11x17in) sized document.

Color Code

1. **Metallic Silver**
2. **Dark Gray** PMS Cool Gray 11C
3. **GVSU Blue** PMS 289C
4. **Reflective White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

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Date	Description

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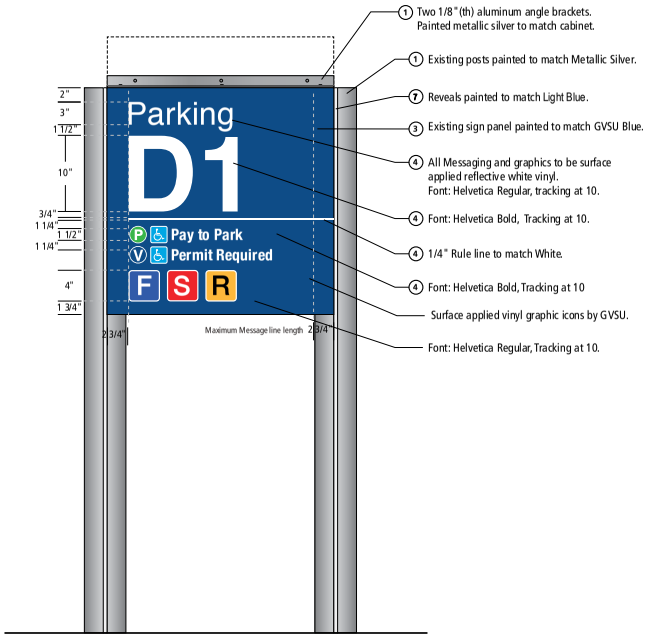
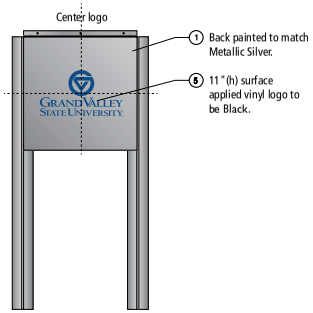
Temporary Panel Option

② OPTIONAL REMOVABLE PANEL
1/8" (th) aluminum panel. Panel background to match Dark Gray.
Messaging to be applied White vinyl.
Message to be determined by GVSU.

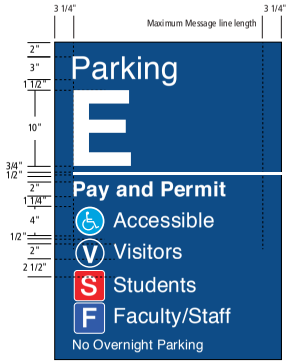


Type 6 Retrofit Sign Cabinet and Posts
30" x 30" (approximate panel size, fabricator to field verify)
Front View



Retrofit Sign Cabinet and Posts
Back View (Single-sided Message)

Retrofit Sign Cabinet and Posts
Back View (Double-sided Message)



Type 6a Alternate Size and Layouts
42" x 30" (approximate panel size, fabricator to field verify)

Alternate Layouts

Sign Type

Parking Identification Type 6/6a

Scale

When printed on a Tabloid (11x17in) sized document.

3/4" = 1'

Color Code

①		**Metallic Silver**
②		**Dark Gray** PMS Cool Gray 11C
③		**GVSU Blue** PMS 289C
④		**Reflective White**
⑤		**Black**
⑥		**Light Gray** PMS Cool Gray 1C
⑦		**Light Blue** PMS 299C

Notes

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by the Owner.

Date	Description

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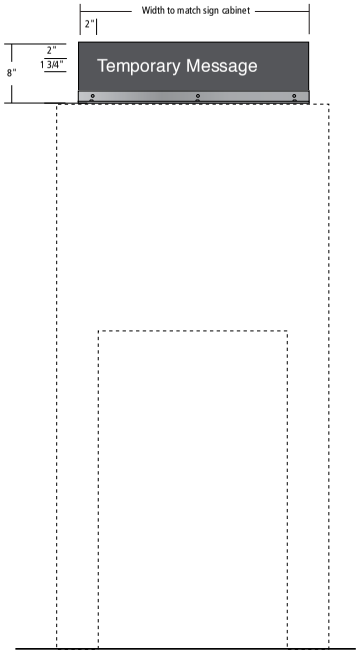
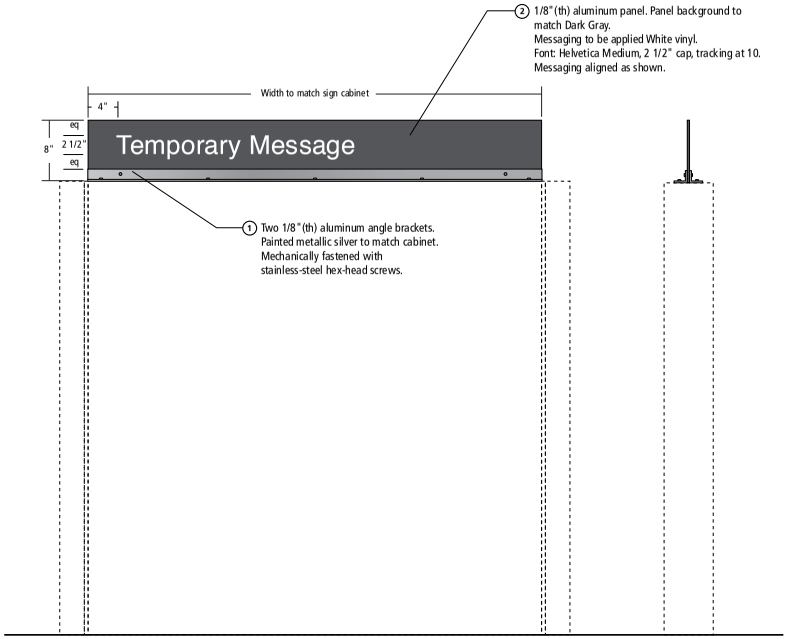
Temporary Panels added to specific signs. See Message schedule for sign types and locations.



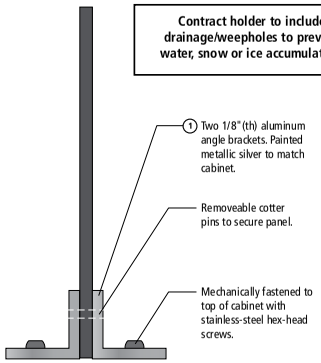
New or Retrofit Parking Lot Identification Front View



New or Retrofit Sign Cabinet Front View

Side View

Contract holder to include drainage/weepholes to prevent water, snow or ice accumulation.



Enlarged Detail of Bracket and Panel

Sign Type

Tx-1 Temporary Message Panel

Scale

When printed on a Tabloid (11x17in) sized document.

3/4" = 1'

Color Code

1. **Metallic Silver**
2. **Dark Gray** PMS Cool Gray 11C
3. **GVSU Blue** PMS 289C
4. **Reflective White**
5. **Black**
6. **Light Gray** PMS Cool Gray 1C
7. **Light Blue** PMS 299C

Notes

This drawing is design-intent only. Fabricator is responsible for fabrication and overall level of quality. Any changes in design, materials, fabrication method or other details must be approved by the Owner.

Date	Description

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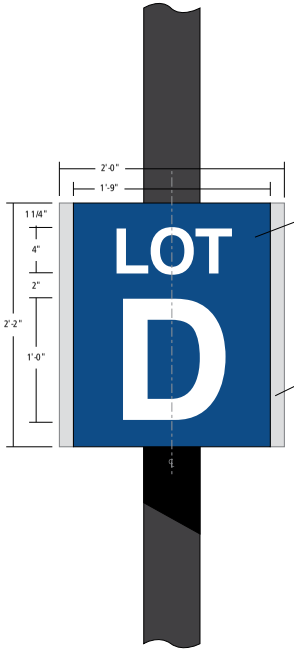
*TEXT USED FOR LAYOUT PURPOSES ONLY

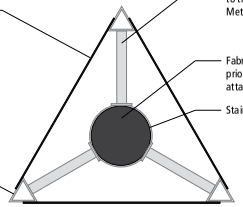
Contract Holder to use same size and type of mounting screw throughout interior program.



Front View

3 1/8" (th.) aluminum sign panel mechanically fastened to support tubes with stainless countersunk screws painted to match sign face. Messaging is surface applied White reflective vinyl centered horizontally and vertically on sign panel.

1 Triangular aluminum support tube fabricated from 1/8" (th.) material painted to match Metallic Silver.



1 1" square aluminum tube supports welded to triangular supports and painted to match Metallic Silver.

Fabricator to verify dimensions of light post prior to fabrication and engineer attachment details.

Stainless steel straps

Cross-section

Bucklestrap

Stainless steel band. Use to attach Universal Channel Clamp to round posts.

Attachment Product available from:

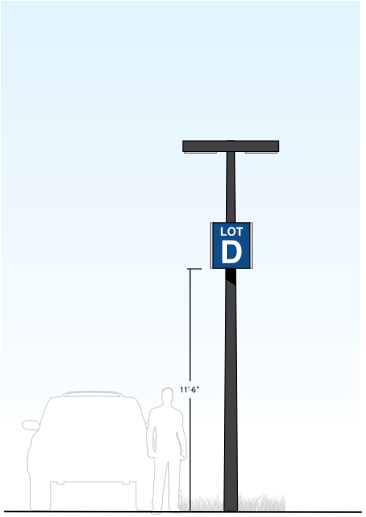
www.band-it-idex.com

WORLD HEADQUARTERS & WESTERN U.S. CUSTOMER SALES & SERVICE CENTER

BAND-IT - IDEX, INC.
A Unit of IDEX Corporation
4799 Dahlia St.
P.O. Box 16307
Denver, Colorado 80216-0307
Ph: 303-320-4555
FAX 303-333-6549

EASTERN U.S. CUSTOMER SALES & SERVICE CENTER

BAND-IT - IDEX, INC.
A Unit of IDEX Corporation
3520 Progress Drive
Bensalem, Pennsylvania 19020
Ph: 215-245-7290
FAX 215-245-7291



Mounting Height

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APPENDIX E

SignComp™ Sign Product Specifications

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Architectural Extrusions

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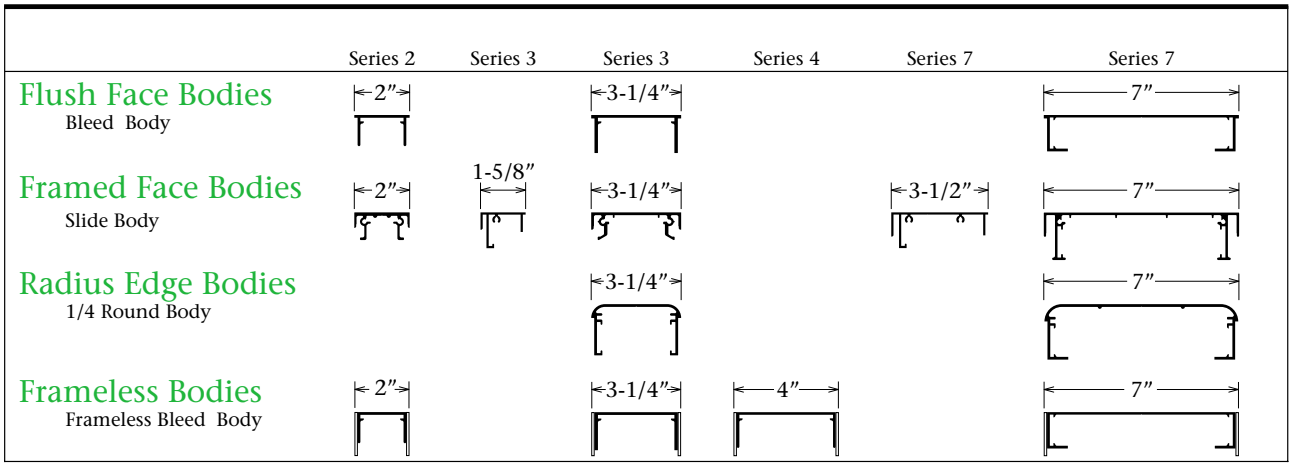
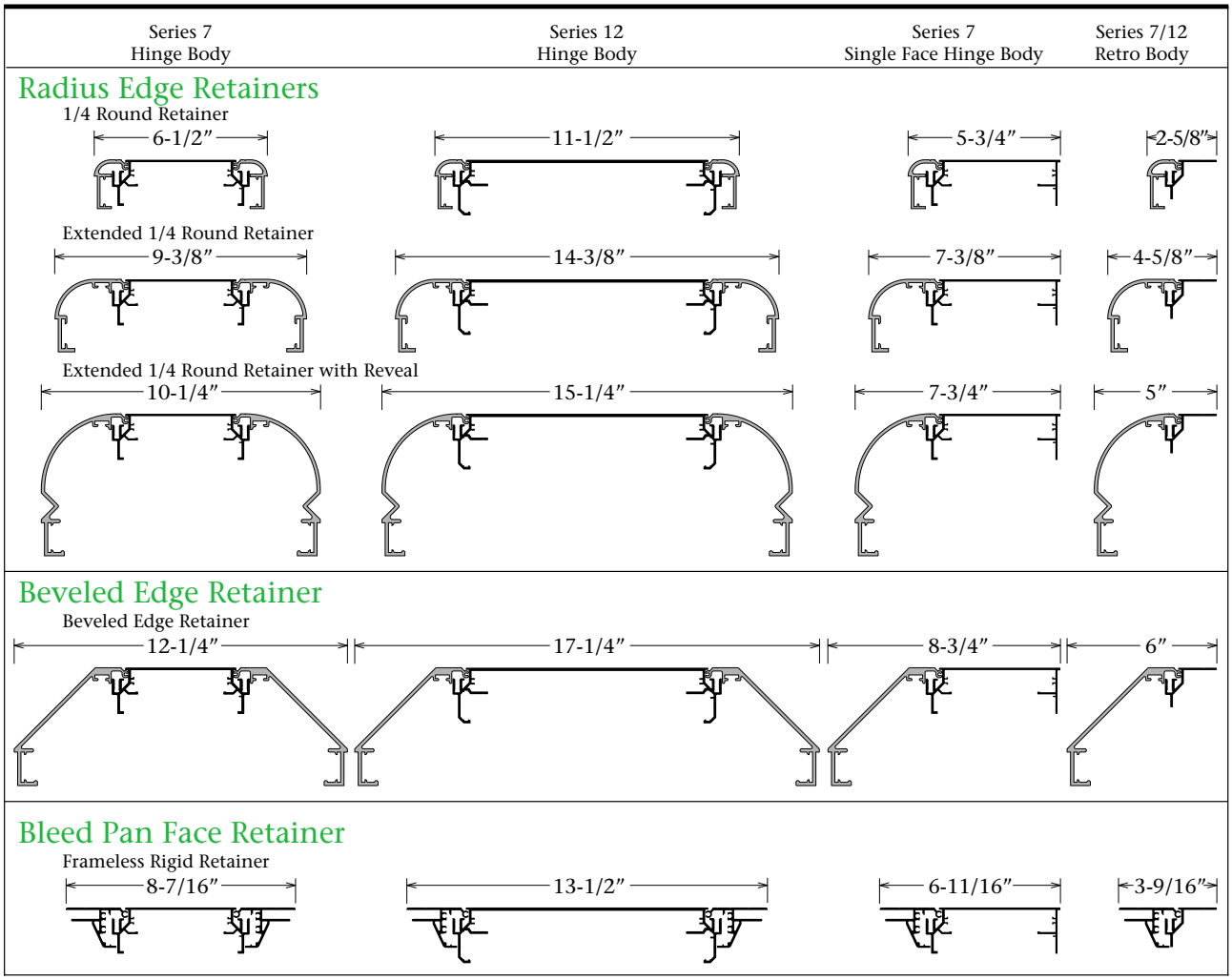
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Configurations





US Patent Number 4,817,317

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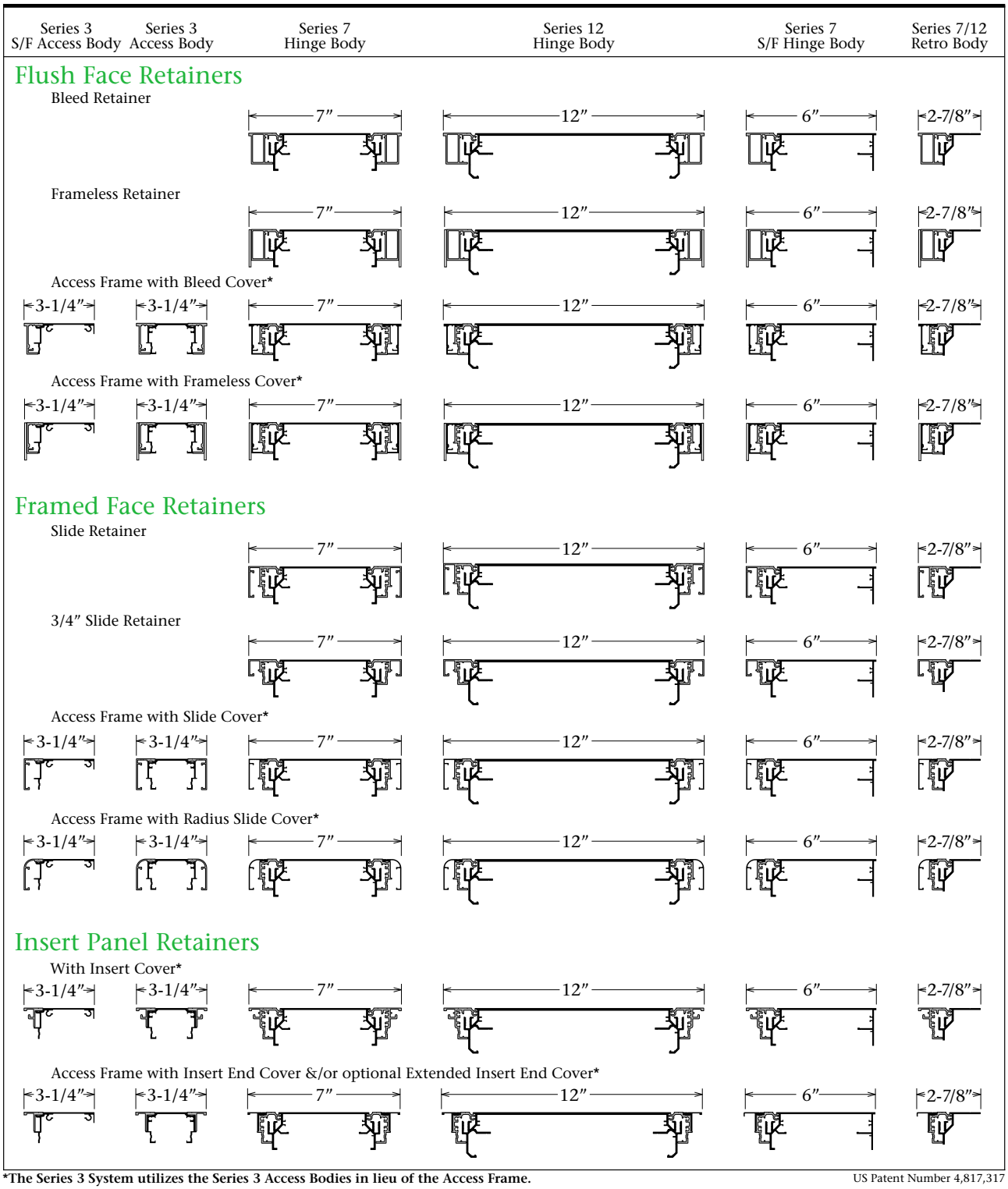
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16″.

Architectural System Configurations



***The Series 3 System utilizes the Series 3 Access Bodies in lieu of the Access Frame.**

US Patent Number 4,817,317

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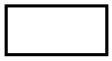
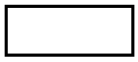
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16″.

Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish	Dk. Bronze
1/8″ Face & Post Systems					
	Series 1 2″ Square Post	1000	24′-0″	$186.60 *Cost per Foot* *7.78*	N/A *N/A*
	Series 1 3-1/4″ Square Post	1005	24′-0″	202.93 *Cost per Foot* *8.46*	N/A *N/A*
	Series 1 3-1/4″ Round Post	1007	24′-0″	202.93 *Cost per Foot* *8.46*	N/A *N/A*
2″ Copy Bar Systems					
	Series CB Reveal	1410	12′-0″	65.71 *Cost per Foot* *5.48*	N/A *N/A*
	Series CB 2″ x 2″ Copy Bar	1420	24′-0″	139.74 *Cost per Foot* *5.82*	N/A *N/A*
	Series CB 2″ x 3″ Copy Bar	1430	24′-0″	177.16 *Cost per Foot* *7.38*	N/A *N/A*
	Series CB 2″ x 4″ Copy Bar	1440	24′-0″	210.55 *Cost per Foot* *8.77*	N/A *N/A*
	Series CB 2″ x 5″ Copy Bar	1450	24′-0″	251.57 *Cost per Foot* *10.48*	N/A *N/A*
	Series CB 2″ x 6″ Copy Bar	1460	24′-0″	288.96 *Cost per Foot* *12.04*	N/A *N/A*
Panel Adaptors					
	Series 2/3/4 1/8″ Panel Adaptor	1203	16′-2″	35.45 *Cost per Foot* *2.19*	51.41 *3.18*
	Series 2/3/4 1/4″ Panel Adaptor	1202	16′-2″	35.45 *Cost per Foot* *2.19*	51.41 *3.18*
	Series 2/3/4 1/2″ Panel Adaptor	1204	16′-2″	37.77 *Cost per Foot* *2.34*	54.77 *3.39*
2″ Post & Panel Systems					
	Series 2 2″ Square Post	1100	24′-0″	187.67 *Cost per Foot* *7.82*	238.90 *9.95*
	Series 2 2″ Slide Body	1110	24′-4″	90.18 *Cost per Foot* *3.71*	116.78 *4.80*
	Series 2 2″ Bleed Body	1120	24′-4″	90.18 *Cost per Foot* *3.71*	N/A *N/A*
	Series 2 2″ Frameless Body	1125	24′-4″	83.42 *Cost per Foot* *3.43*	N/A *N/A*
	Series 2 2″ Beveled Frame	1990	24′-4″	72.31 *Cost per Foot* *2.97*	103.68 *4.26*
3 Position Reveal	Series 2/3/4 Reveal	1200	24′-0″	51.91 *Cost per Foot* *2.16*	75.37 *3.14*

Extrusions are available in full lengths only.

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Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16″.

Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish	Dk. Bronze
3-1/4″ Post & Panel Systems					
	Series 3 3-1/4″ Radius Post	1210	24′-0″	$223.26 *Cost per Foot* *9.30*	$271.38 *11.31*
	Series 3 3-1/4″, 1/2 Round End	1212	24′-0″	199.16 *Cost per Foot* *8.30*	N/A *N/A*
	Series 3 1-5/8″, 1/4 Round End	1215	24′-0″	120.68 *Cost per Foot* *5.03*	N/A *N/A*
	Series 3 3-1/4″ Rectangular Post	1220	24′-0″	223.26 *Cost per Foot* *9.30*	271.38 *11.31*
	Series 3 3-1/4″ Rectangular Post w/ Radius Edges	1230	24′-0″	223.26 *Cost per Foot* *9.30*	N/A *N/A*
	Series 3 3-1/4″ Triangular Post	1240	24′-0″	223.26 *Cost per Foot* *9.30*	N/A *N/A*
	Series 3 3-1/4″ Triangular Post w/ Radius Edges	1250	24′-0″	223.26 *Cost per Foot* *9.30*	N/A *N/A*
	Series 3 3-1/4″ Square Post	1233	24′-0″	268.28 *Cost per Foot* *11.18*	N/A *N/A*
	Series 3 3-1/4″ Square Post w/ Radius Edges	1235	24′-0″	268.28 *Cost per Foot* *11.18*	N/A *N/A*
	Series 3 3-1/4″ Round Post	1237	24′-0″	268.28 *Cost per Foot* *11.18*	N/A *N/A*
	Series 3 3-1/4″ Slide Body	1260	24′-4″	121.33 *Cost per Foot* *4.99*	147.47 *6.06*
	Series 3 3-1/4″ Bleed Body	1270	24′-4″	108.60 *Cost per Foot* *4.46*	N/A *N/A*
	Series 3 3″ Frameless Body	1275	24′-4″	101.18 *Cost per Foot* *4.16*	N/A *N/A*
	Series 3 3-1/4″, 1/4 Round Body	1280	24′-4″	114.57 *Cost per Foot* *4.71*	N/A *N/A*
	Series 3 1-5/8″, 1/2 Slide Body	1265	24′-4″	83.42 *Cost per Foot* *3.43*	N/A *N/A*

Extrusions are available in full lengths only.

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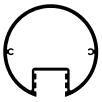
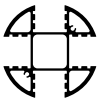
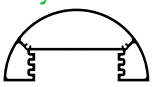
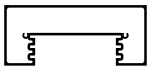
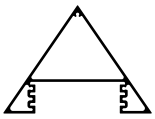
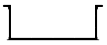
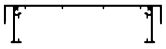
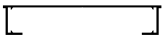
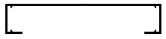
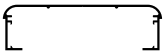
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish
4" Post & Panel Systems				
	Series 3/4 Radius Post Filler	1201	24'-0"	$33.53 *Cost per Foot* *1.40*
	Series 4 4"Round Post	1337	24'-0"	286.42 *Cost per Foot* *11.93*
	Series 4 4" Round 4-Sided Post	1338	24'-0"	371.51 *Cost per Foot* *15.48*
	Series 4 4" Round 90 Degree Post	1339	24'-0"	311.98 *Cost per Foot* *13.00*
	Series 4 4" Frameless Body	1355	24'-4"	105.89 *Cost per Foot* *4.35*
7" Post & Panel Systems				
	Series 7 7" Radius Post	1500	24'-0"	437.42 *Cost per Foot* *18.23*
	Series 7 7" Rectangular Post	1510	24'-0"	437.42 *Cost per Foot* *18.23*
	Series 7 7" Triangular Post	1530	24'-0"	437.42 *Cost per Foot* *18.23*
	Series 7 1/4 Round End	1670	24'-5"	110.61 *Cost per Foot* *4.53*
	Series 7 Reveal	1550	24'-0"	112.91 *Cost per Foot* *4.70*
	Series 7 7" Slide Body	1560	24'-4"	188.77 *Cost per Foot* *7.76*
	Series 7 7" Bleed Body	1570	24'-4"	157.63 *Cost per Foot* *6.48*
	Series 7 7" Frameless Body	1575	24'-4"	155.76 *Cost per Foot* *6.40*
	Series 7 7", 1/4 Round Body	1580	24'-4"	180.37 *Cost per Foot* *7.41*
	Series 7 1/2 Slide Body	1565	24'-4"	133.52 *Cost per Foot* *5.49*

Extrusions are available in full lengths only.

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Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16″.

Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish
Sign Cabinet Bodies				
	Series 3 Single Face Access Body	1291	24′-4″	$100.02 *Cost per Foot* *4.12*
	Series 3 Access Body	1290	24′-4″	110.50 *Cost per Foot* *4.54*
	Series 7 Single Face Hinge Body	1602	24′-5″	156.26 *Cost per Foot* *6.40*
	Series 7 Hinge Body	1592	24′-5″	181.26 *Cost per Foot* *7.42*
	Series 12 Hinge Body	1612	24′-5″	339.70 *Cost per Foot* *13.91*
	Series 7/12 Retro Body	1600	24′-5″	66.85 *Cost per Foot* *2.74*
Retainers & Covers				
	Slide Retainer	1624	24′-5″	66.58 *Cost per Foot* *2.73*
	3/4″ Slide Retainer	1626	24′-5″	66.58 *Cost per Foot* *2.73*
	Frameless Rigid Retainer	1628	24′-5″	86.03 *Cost per Foot* *3.52*
	Frameless Retainer	1631	24′-5″	63.86 *Cost per Foot* *2.62*
	Bleed Retainer	1632	24′-5″	63.86 *Cost per Foot* *2.62*
	Access Frame	1690	24′-5″	47.01 *Cost per Foot* *1.93*
	Bleed Cover	1692	24′-5″	38.87 *Cost per Foot* *1.59*
	Frameless Cover	1693	24′-5″	36.59 *Cost per Foot* *1.50*
	Slide Cover	1694	24′-5″	27.72 *Cost per Foot* *1.14*
	Radius Slide Cover	1695	24′-5″	26.36 *Cost per Foot* *1.08*
	1/4 Round Retainer	1640	24′-5″	66.58 *Cost per Foot* *2.73*
	Extended 1/4 Round Retainer	1650	24′-5″	136.70 *Cost per Foot* *5.60*
	Extended 1/4 Round Retainer w/ Reveal	1655	24′-5″	205.72 *Cost per Foot* *8.43*
	Beveled Retainer	1656	24′-5″	187.67 *Cost per Foot* *7.69*
Divider				
	1-1/4″ Divider	1662	24′-0″	49.36 *Cost per Foot* *2.06*

Extrusions are available in full lengths only.

Patent Number 4,817,317

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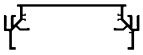
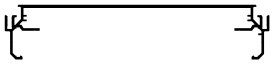
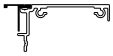
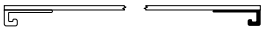
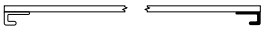
Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish
Flush Insert Panel Systems				
Sign Cabinet Bodies				
	Series 3 Single Face Access Body	1291	24′-4″	$100.20 *Cost per Foot* *4.12*
	Series 3 Access Body	1290	24′-4″	110.50 *Cost per Foot* *4.54*
	Series 7 Single Face Hinge Body	1602	24′-5″	156.26 *Cost per Foot* *6.40*
	Series 7 Hinge Body	1592	24′-5″	181.26 *Cost per Foot* *7.42*
	Series 12 Hinge Body	1612	24′-5″	339.70 *Cost per Foot* *13.91*
	Series 7/12 Retro Body	1600	24′-5″	66.85 *Cost per Foot* *2.74*
Retainers				
	Insert Retainer	1666	16′-2″	55.61 *Cost per Foot* *3.44*
	Access Frame	1690	24′-5″	47.01 *Cost per Foot* *1.93*
	Bleed Cover	1692	24′-5″	38.87 *Cost per Foot* *1.59*
	Frameless Cover	1693	24′-5″	36.59 *Cost per Foot* *1.50*
	Insert End Cover	1696	24′-5″	23.10 *Cost per Foot* *0.95*
	Extended Insert End Cover	1698	24′-5″	23.64 *Cost per Foot* *0.97*
	Insert Top/Bottom Cover	1292	16′-2″	18.32 *Cost per Foot* *1.13*
Concealed Divider				
	Insert Divider	1668	16′-0″	40.96 *Cost per Foot* *2.56*
Insert Panels				
	4″ Aluminum Insert Panel	1674	16′-2″	63.01 *Cost per Foot* *3.90*
	6″ Aluminum Insert Panel	1676	16′-2″	88.06 *Cost per Foot* *5.45*
	8″ Aluminum Insert Panel	1678	16′-2″	147.89 *Cost per Foot* *9.15*
	Aluminum Insert Adaptor	1679	8′-1″	11.58 *Cost per Foot* *1.43*
	Plastic Insert Adaptor	1689	8′-1″	20.01 *Cost per Foot* *2.48*

Note: The extruded plastic insert adaptors are black, modified acrylic D.R. Color. Variances and dimensional tolerance shifts do occur.
Note: The aluminum inserts, insert adaptors, insert retainers and dividers are black and/or clear anodized (R204) for sliding purposes only, not necessarily for external finish.

Extrusions are available in full lengths only.

Patent Number 4,817,317

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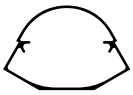
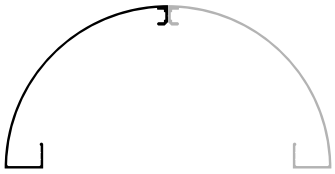
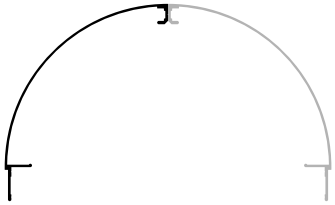
Extrusions Priced by the Length

	Part	Part Number	Length	Mill Finish
Monolithic Edges				
	Sharp Edge 60 Degree	1850	24′-0″	$304.56 *Cost per Foot* *12.69*
	1-1/2″ Radius Edge 60 Degree	1860	24′-0″	301.30 *Cost per Foot* *12.55*
	2-1/2″ Radius Edge 60 Degree	1870	24′-0″	326.34 *Cost per Foot* *13.60*
	2″ Radius Edge 90 Degree	1880	24′-0″	312.91 *Cost per Foot* *13.04*
	3″ Radius Edge 90 Degree	1890	24′-0″	312.91 *Cost per Foot* *13.04*
Radius Ends				
	Series 7 1/4 Round End	1670	24′-5″	110.61 *Cost per Foot* *4.53*
	6″ Radius 1/4 Round End	1671	24′-6″	202.34 *Cost per Foot* *8.26*
	6″ Radius 1/4 Round Pole Cover	1672	24′-6″	202.34 *Cost per Foot* *8.26*

Note: Radius Ends require two (2) 1/4 rounds to make one half round.

Extrusions are available in full lengths only.

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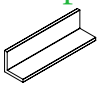
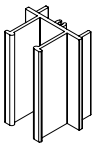
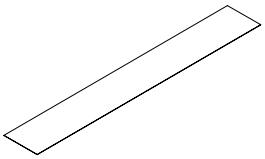
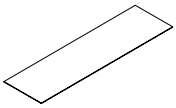
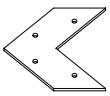
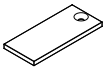
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Accessories

Components

Part	Part Number	Price Each
		
Series 2 Slide Body Corner Angle 1" x 1" x 1/8" (1-1/8")	5330	$1.13
Series 2 Bleed/Frameless Body Corner Angle 1" x 1" x 1/8" (1-1/2")	5331	1.13
Series 3 Slide Body Corner Angle 1" x 1" x 1/8" (2-1/4")	5335	1.30
Series 3 Bleed/Frameless Body Corner Angle 1" x 1" x 1/8" (2-11/16")	5337	1.30
Series 3 Single Face Access Body Corner Angle 2" x 2" x 1/8" (1-13/16")	5338	1.34
Series 4 Frameless Body Corner Angle 1" x 1" x 1/8" (3-9/16")	5341	2.35
Series 7 Slide Body Corner Angle 2" x 2" x 1/8" (5-3/4")	5348	4.28
Series 7 Hinge Body Corner Angle 1-3/4" x 1-3/4" x 1/4" (3-13/16")	5344	2.45
Series 7 Single Face Hinge Body Corner Angle 1-3/4" x 1-3/4" x 1/4" (4-1/8")	5346	2.72
Series 12 Hinge Body Corner Angle 1-3/4" x 1-3/4" x 1/4" (8-3/4")	5342	5.34
Extended 1/4 Round Retainer Extended 1/4 Round Retainer w/Reveal Corner Angle 1" x 1" x 1/8" (1/2")	5325	0.97
		
2" Series CB Reveal Cut to size and notched	1412	3.95
3" Series CB Reveal Cut to size and notched	1413	4.24
4" Series CB Reveal Cut to size and notched	1414	4.48
5" Series CB Reveal Cut to size and notched	1415	4.80
6" Series CB Reveal Cut to size and notched	1416	5.04

Part	Part Number	Price Each
		
Series 7 Hinge Body Raceway Cover 4-3/8" x 48" x .040" (white)	5122	$6.48
Series 7 Single Face Hinge Body Raceway Cover 4-3/8" x 48" x .040" (white)	5122	6.48
Series 12 Hinge Body Raceway Cover 9-1/8" x 48" x .040" (white)	5124	16.19
		
Series 7 Hinge Body Ballast Bracket 3-3/4" x 24" x .080"	5102	8.11
Series 7 Single Face Hinge Body Ballast Bracket 4-1/8" x 24" x .080"	5104	8.11
Series 12 Hinge Body Ballast Bracket 8-11/16" x 24" x .080"	5107	8.11
		
Corner Key .120 Stamped Aluminum	5210	0.79
3/4" Corner Key .120 Stamped Aluminum (to be used with 1626 and 695 only)	5226	0.79
Insert Divider Tab 3/4" x 2" x .125"	5306	0.66
		
1-1/4" Divider Tab 1" x 2-1/4" x .125"	5308	0.66

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Architectural System Accessories

Series 1 Post Caps

Part	Reveal Tab	Part Number	Price Each
2" Square	N/A	5250	$3.23
3-1/4" Square	N/A	5252	3.23
3-1/4" Round	N/A	5254	3.23

Series 2 Post Caps

Part	Reveal Tab	Part Number	Price Each
Square	0"	5260	3.23
	3/8"	5261	3.23
	3/4"	5262	3.23
Beveled	N/A	5460	4.53

Series 2 Pre-painted Post Caps

Part	Reveal Tab	Part Number	Price Each
Square	0"	5260P	4.65
	3/8"	5261P	4.65
	3/4"	5262P	4.65

Series 3 Post Caps

Part	Reveal Tab	Part Number	Price Each
Radius	0"	5000	3.23
	3/8"	5002	3.23
	3/4"	5004	3.23
1/2 Round Post	N/A	5005	3.23
1/4 Round Post End R	N/A	5003R	2.18
1/4 Round Post End L	N/A	5003L	2.18
Rectangular	0"	5010	3.23
	3/8"	5012	3.23
	3/4"	5014	3.23
Rectangular w/ Radius Edges	0"	5006	3.23
	3/8"	5007	3.23
	3/4"	5008	3.23
Triangular	0"	5015	3.23
	3/8"	5016	3.23
	3/4"	5017	3.23
Triangular w/ Radius Edges	0"	5400	3.23
	3/8"	5401	3.23
	3/4"	5402	3.23
Square	0"	5405	3.23
	3/8"	5406	3.23
	3/4"	5407	3.23
Square w/ Radius Edges	0"	5410	3.23
	3/8"	5411	3.23
	3/4"	5412	3.23
Round	0"	5415	3.23
	3/8"	5416	3.23
	3/4"	5417	3.23

Series 3 Pre-painted Post Caps

Part	Reveal Tab	Part Number	Price Each
Radius	0"	5000P	$4.65
	3/8"	5002P	4.65
	3/4"	5004P	4.65
Rectangular	0"	5010P	4.65
	3/8"	5012P	4.65
	3/4"	5014P	4.65

Series 4 Post Caps

Part	Reveal Tab	Part Number	Price Each
Round	3/4"	5430	6.90
90 Degree Round	3/4"	5431	6.90
4-Sided Round	3/4"	5432	6.90

Series 7 Post Caps

Part	Reveal Tab	Part Number	Price Each
Radius	0"	5020	6.48
	1/2"	5024	6.48
	1"	5026	6.48
Rectangular	0"	5030	6.48
	1/2"	5034	6.48
	1"	5036	6.48
Triangular	0"	5425	6.48
	1/2"	5426	6.48
	1"	5427	6.48
1/4 Round End	N/A	5028	4.35
1/2 Round End	N/A	5029	8.31

6" Radius End Caps

Part	Reveal Tab	Part Number	Price Each
6" Radius End 1/4 Round	1-1/4"	5441	8.12
6" Radius End	1-1/4"	5440	15.65

Note: All post caps are .125 stamped aluminum, pre-drilled and countersunk. The 6" Radius End Cap is not pre-drilled. **All caps are slightly oversized.**

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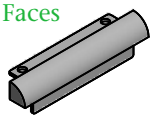
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Accessories

Radius Corners

For Rigid Plastic Faces



Part	Part Number	Price per box of four (4)
Series 7 Slide Body 7/8" Radius Corner Prepainted Black	4770	$148.76

Note: The molded urethane plastic radius corner body is ground smooth to fit the extrusion profile. Grid lines and imperfections are present. Some surface preparation may be necessary. **Not ready for paint**.

Hardware

Part	Part Number	Price per 100
Cap Screw **Cap Screw - Dk. Bronze** **Copy Bar Screw** Pre-drill and countersink 5/32" holes four (4) per Copy Bar. **#10 x 1/2" stainless steel square/phillips drive countersink screw - Type A**	5040 5040P	11.00/100 15.00/100
Access Frame Cover Screw Pre-drill and countersink 1/8" holes every 12" o/c on the cover. **Divider Tab Screw** Pre-drill 1/8" holes two (2) per Divider. **#8 x 1/2" stainless steel square/phillips drive countersink screw - Type A**	5168	8.00/100
Reveal to Body Screw Pre-drill 3/32" holes every 12" o/c of Reveal. **Corner Angle Screw** Pre-drill 5/32" holes four (4) per body corner. **#10 x 1/2" stainless steel square/phillips drive pan head tapping screw w/ wax - Type AB**	5218	19.00/100
Closure Screw Pre-drill and countersink 5/32" holes every 36" o/c along the bottom and sides of retainer. **#10 - 24 x 7/8" stainless steel square/phillips drive countersink machine screw.**	5230	15.00/100
Slide Body Corner Screw **Slide Body Corner Screw - Dk. Bronze** Pre-drill and countersink 5/32" holes two (2) per corner along the body horizontals. **#10 -24 x 3/4" stainless steel square/phillips drive countersink thread cutting screw - Type F**	5240 5240P	15.00/100 21.00/100
Series 3,1/2 Slide Body Corner Screw Pre-drill and countersink 1/8" holes two (2) per corner along the horizontals. **Access Body Corner Screw** Pre-drill and countersink 1/8" holes (2) per corner on the body verticals. **#8 x 3/4" stainless steel square/phillips drive countersink screw - Type A**	5241	7.00/100
Slide/Insert Retainer Corner Screw Pre-drill and countersink 1/8" holes (2) per corner on the retainer horizontals. **2" Beveled Frame Corner Screw** Pre-drill and countersink 1/8" holes (2) per corner on the frame horizontals. **Access Frame Corner Screw** Pre-drill and countersink 1/8" holes two (2) per frame end. **#8 x 1-1/2" stainless steel square/phillips drive countersink screw - Type A**	5270	15.00/100
Hinge Screw Pre-drill 5/16" holes through the retainer every 18" o/c along all sides of the retainer. **#10 - 24 x 5/8" stainless steel allen head machine screw.**	5280	19.00/100
Rigid Retainer Hardware Pre-drill and countersink 9/32" holes every 18" o/c along all sides of the retainer. **1/4"-20 x 1" stainless steel square drive countersink machine screw/bushing/lock nut.**	5285	.68/ea
Raceway Cover Screw Pre-drill 1/8" holes every 24" o/c. **#8 x 1/2" steel zinc square/phillips drive pan head screw - Type A**	5290	8.00/100

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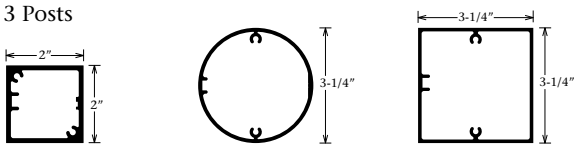
Architectural System Specifications

Series 1
1/8" Face Post & Panel Systems

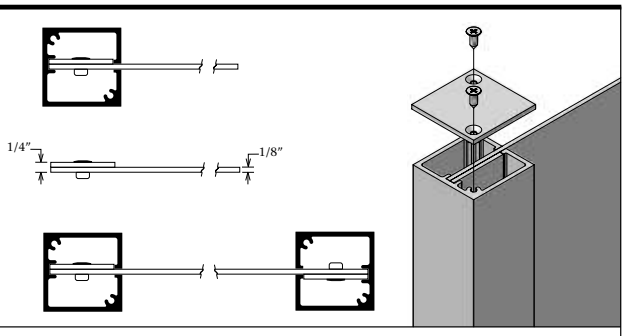
3 Posts



2" Square Post
Part #1000

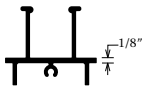
3-1/4" Round Post
Part #1007

3-1/4" Square Post
Part #1005

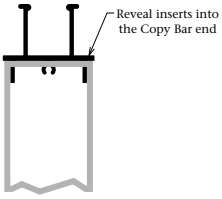


Series CB
2" Copy Bar Systems

1 Reveal

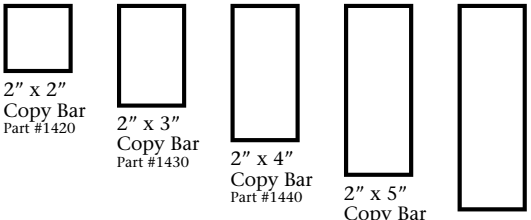


CB Reveal
Part #1410



One Reveal Shape:
- Fits into all five (5) Copy Bars
- Slides into Series 2, 3 & 4 posts
- Delivers three (3) reveal positions

5 Copy Bars



2" x 2"
Copy Bar
Part #1420

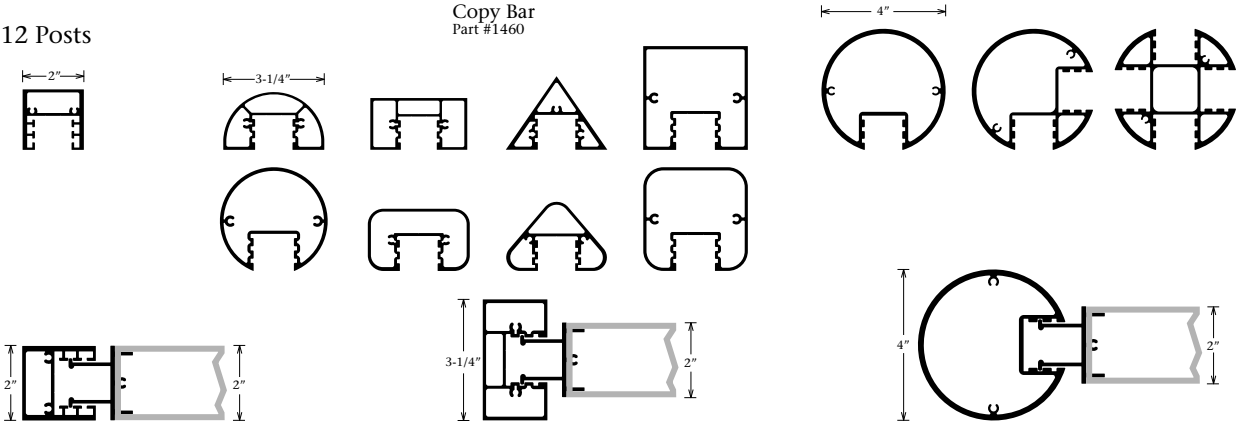
2" x 3"
Copy Bar
Part #1430

2" x 4"
Copy Bar
Part #1440

2" x 5"
Copy Bar
Part #1450

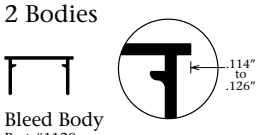
2" x 6"
Copy Bar
Part #1460

12 Posts

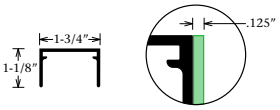


Series CB
2" Header Panel

2 Bodies



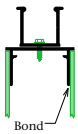
Bleed Body
Part #1120



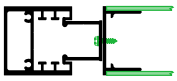
Frameless Body
Part #1125

1 Reveal

Reveal
Part #1200



One Reveal Shape:
- Easily attaches to the body
- Slides into Series 2, 3 & 4 posts
- Delivers three (3) reveal positions
- Fills the post below the panel



All post options offer three (3) reveal positions: 0", 3/8" & 3/4"

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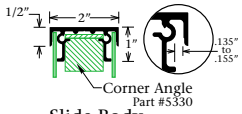
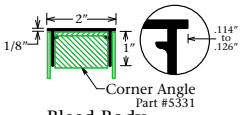
Architectural System Specifications

Series 2
2" Post & Panel Systems

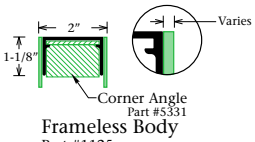
3 Bodies



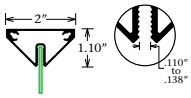
Slide Body
Part #1110
For Removable Faces



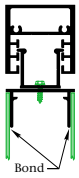
Bleed Body
Part #1120
For Fixed Faces



Frameless Body
Part #1125
For Fixed Faces

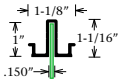


2" Beveled Frame
Part #1990

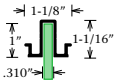


Three Reveal Positions
0", 3/8" & 3/4"

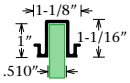
3 Panel Adaptors



1/8" Panel Adaptor
Part #1203

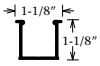


1/4" Panel Adaptor
Part #1202



1/2" Panel Adaptor
Part #1204

1 Reveal

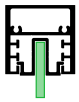


Reveal
Part #1200

One Reveal Shape:
- Easily attaches to all bodies
- Slides into Series 2, 3 & 4 posts
- Delivers 3 reveal positions
- Fills the post below the panel

Post

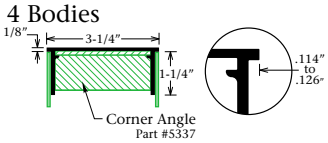
2" Square Post
Part #1100



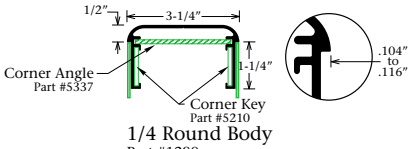
One Reveal Position
0"

Series 3
3-1/4" Post & Panel Systems

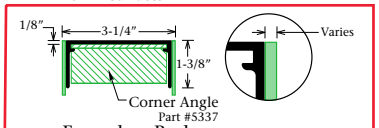
4 Bodies



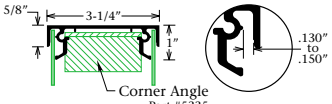
Bleed Body
Part #1270
For Fixed Faces



1/4 Round Body
Part #1280
For Fixed Faces



Frameless Body
Part #1275
For Fixed Flush Faces

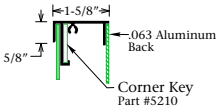


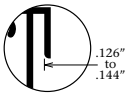
Slide Body
Part #1260
For Removable Faces

1 Reveal

Reveal
Part #1200

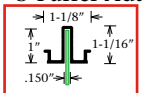
One Reveal Shape:
- Easily attaches to all bodies
- Slides into Series 2, 3 & 4 posts
- Delivers 3 reveal positions
- Fills the post below the panel



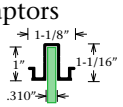


1/2 Slide Body
Part #1265
For Removable Faces

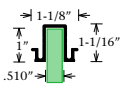
3 Panel Adaptors



1/8" Panel Adaptor
Part #1203

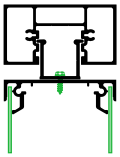


1/4" Panel Adaptor
Part #1202



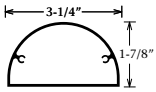
1/2" Panel Adaptor
Part #1204

One Reveal Position
0"

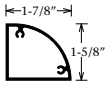


Three Reveal Positions
0", 3/8" & 3/4"

2 Radius Ends

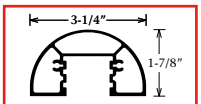


1/2 Round End
Part #1212

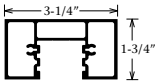


1/4 Round End
Part #1215

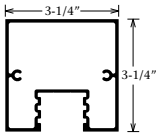
8 Posts



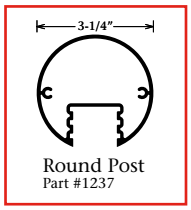
Radius Post
Part #1210



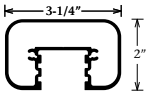
Rectangular Post
Part #1220



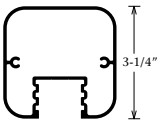
Square Post
Part #1233



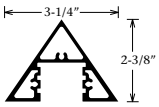
Round Post
Part #1237



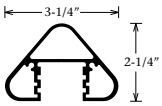
Rectangular Post w/Radius Edges
Part #1230



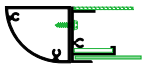
Square Post w/Radius Edges
Part #1235



Triangular Post
Part #1240



Triangular Post w/Radius Edges
Part #1250



1/2 Slide Body
Part #1265
1/4 Round End
Part #1215
For Removable Faces

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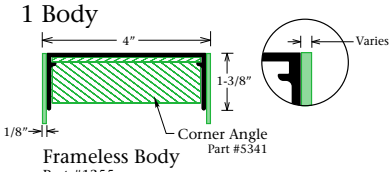
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Specifications

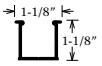
Series 4
4" Post & Panel Systems

1 Body



Frameless Body
Part #1355
For Fixed Flush Faces

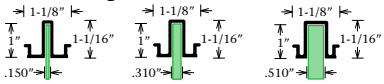
1 Reveal



Reveal
Part #1200

One Reveal Shape:
- Easily attaches to all bodies
- Slides into Series 2, 3 & 4 posts
- Delivers 3 reveal positions

Panel Adaptors

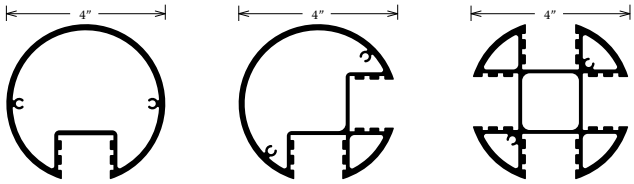


1/8" Panel Adaptor
Part #1203

1/4" Panel Adaptor
Part #1202

1/2" Panel Adaptor
Part #1204

3 Posts

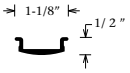


4" Round Post
Part #1337

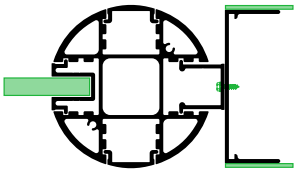
4" Round
90 Degree Post
Part #1339

4" Round
4 Sided Post
Part #1338

1 Post Filler

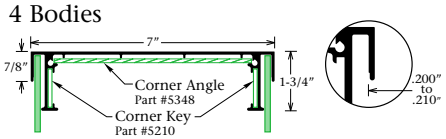


Series 3/4
Radius Post Filler
Part #1201

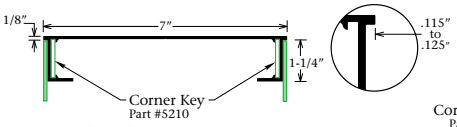


Series 7
7" Post & Panel Systems

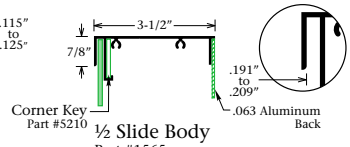
4 Bodies



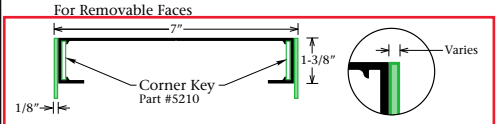
Slide Body
Part #1560
For Removable Faces



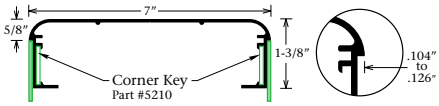
Bleed Body
Part #1570
For Fixed Faces



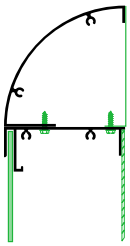
½ Slide Body
Part #1565
For Removable Faces



Frameless Body
Part #1575
For Fixed Flush Faces

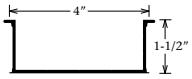


1/4 Round Body
Part #1580
For Fixed Faces



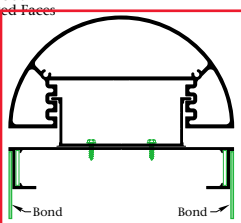
Top view of
1/4 Round End
on 1/2 Slide Body

1 Reveal



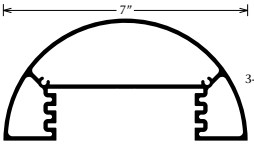
Reveal
Part #1550

One Reveal Shape:
- Easily attaches to all four (4) non-illuminated bodies
- Easily attaches to the Series 7 Hinge Body
- Delivers three (3) reveal positions
- Fills the post below the panel

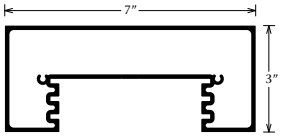


Three Reveal
Positions
0", 1/2" & 1"

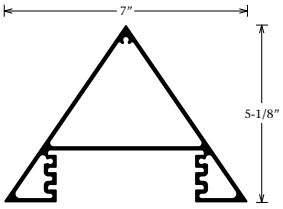
3 Posts



Radius Post
Part #1500

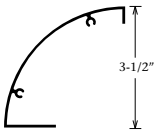


Rectangular Post
Part #1510



Triangular Post
Part #1530

1 Radius End



1/4 Round End
Part #1670

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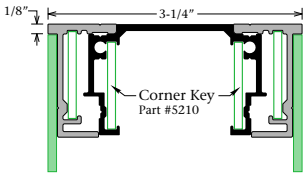
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Specifications

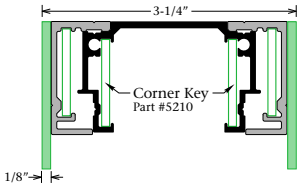
Non-Hingeable Sign Cabinet Body Extrusions

Series 3 Access Body
Part #1290

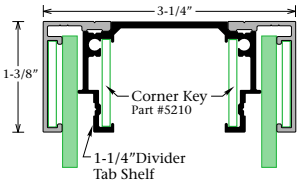
Bleed Cover
Part #1692



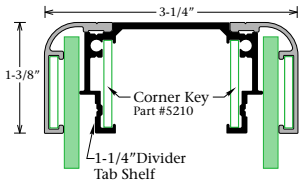
Frameless Cover
Part #1693



Slide Cover
Part #1694

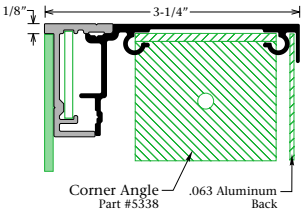


Radius Slide Cover
Part #1695

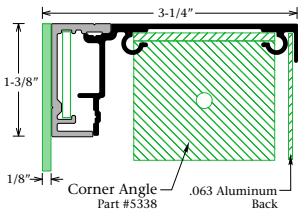


Series 3 Single Face Access Body
Part #1291

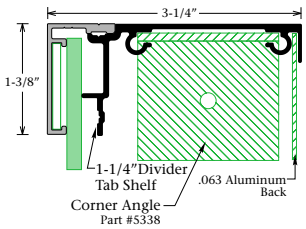
Bleed Cover
Part #1692



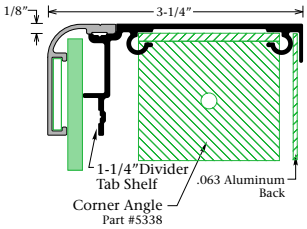
Frameless Cover
Part #1693



Slide Cover
Part #1694



Radius Slide Cover
Part #1695

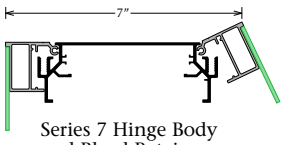


Note: The Series 3 Access Body with Covers are designed to integrate with the Series 2, Series 3 and Series 4 posts. See page 46 for more information.

Hingeable
7" Post & Panel Systems

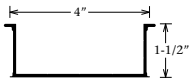
1 Body
See below

10 Retainers
See page 52



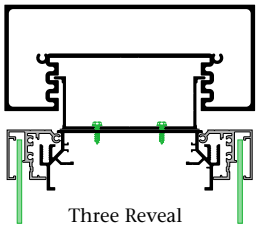
Series 7 Hinge Body
and Bleed Retainers

1 Reveal



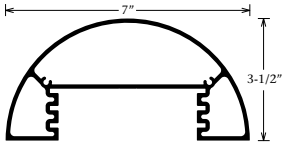
Series 7 Reveal
Part #1550

One Reveal Shape:
- Easily attaches to the Hinge Body
- Delivers three (3) reveal positions
- Fills the post below the panel

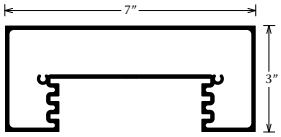


Three Reveal
Positions
0",1/2" & 1"

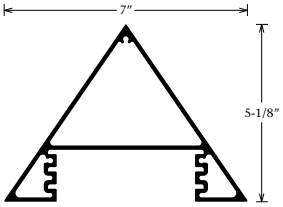
3 Posts



Radius Post
Part #1500



Rectangular Post
Part #1510



Triangular Post
Part #1530

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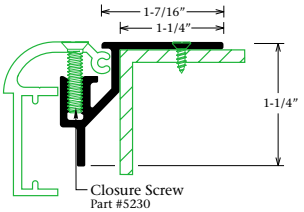
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

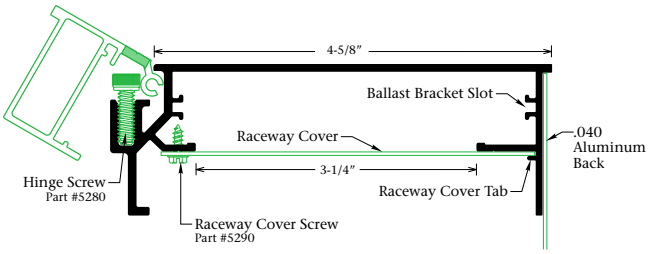
Architectural System Specifications

Hingeable Sign Cabinet Body Extrusions

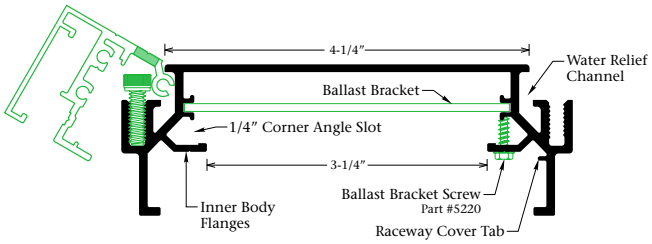
Series 7-12 Retro Body
Part #1600
(Section view through side/bottom)



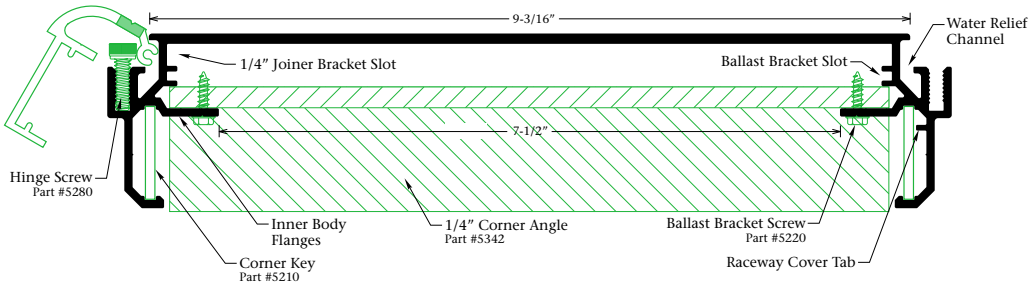
Series 7 Single Face Body
Part #1602
(Section view through top)



Series 7 Hinge Body
Part #1592
(Section view through top)



Series 12 Hinge Body
Part #1612
(Section view through top)



Note: It is recommended to use safety chains and prop-bars on hingeable faces.

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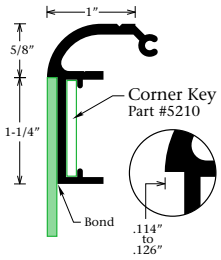
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

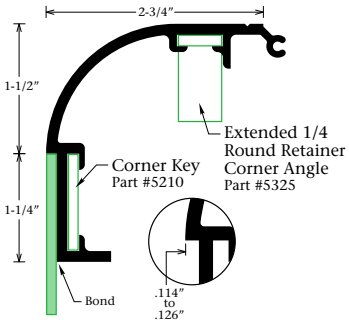
Architectural System Specifications

Radius Edge Face Retainers

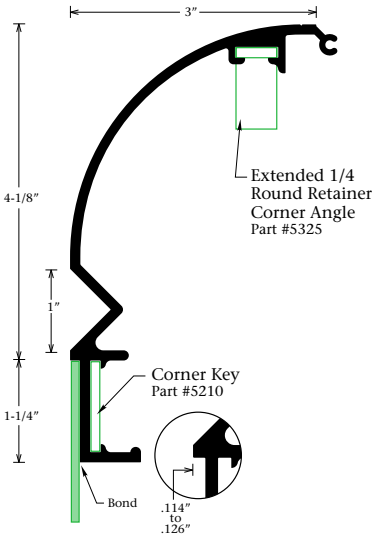
1/4 Round Retainer
Part #1640



Extended 1/4 Round Retainer
Part #1650

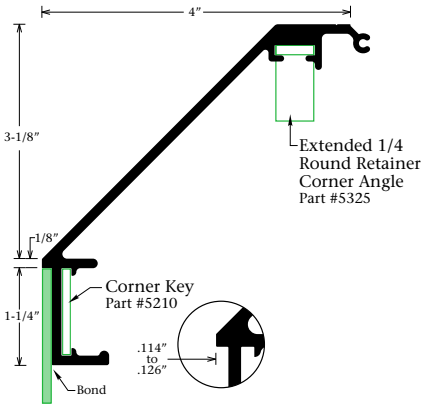


Extended 1/4 Round Retainer w/Reveal
Part #1655



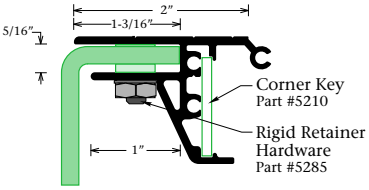
Beveled Edge Face Retainer

Beveled Retainer
Part #1656



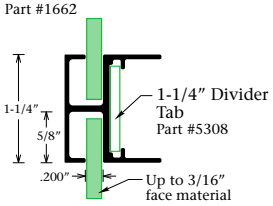
Bleed Pan Face Retainer

Frameless Rigid Retainer
Part #1628



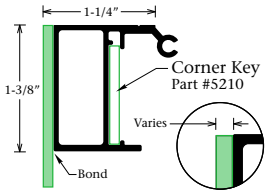
Framed Face Divider

1-1/4" Divider
Part #1662

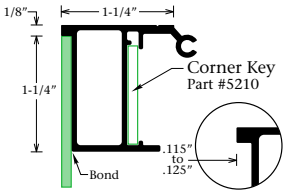


Flush Face Retainers

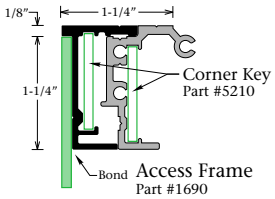
Frameless Retainer
Part #1631



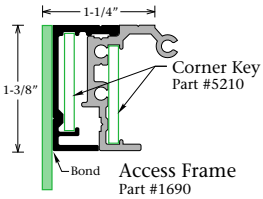
Bleed Retainer
Part #1632



Bleed Cover
Part #1692

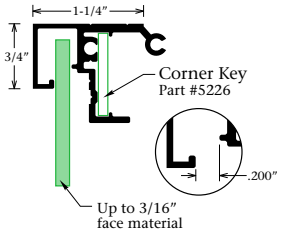


Frameless Cover
Part #1693

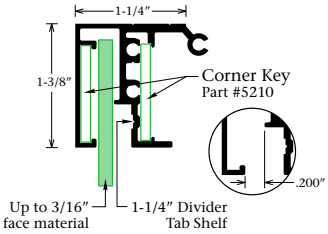


Framed Face Retainers

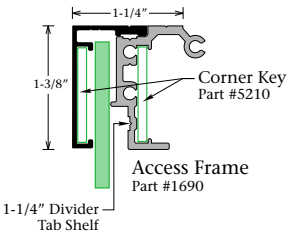
3/4" Slide Retainer
Part #1626



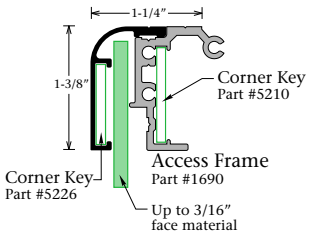
Slide Retainer
Part #1624



Slide Cover
Part #1694



Radius Slide Cover
Part #1695



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Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

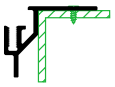
Architectural System Specifications

Insert Panel Systems
Hingeable

Bodies

Series 12 Hinge Body
Part #1612

Series 7-12 Retro Body
Part #1600

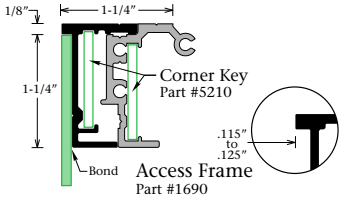


Series 7 Hinge Body
Part #1592

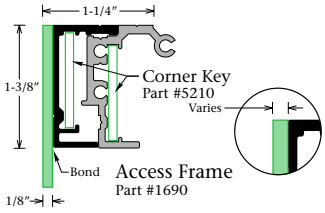
Series 7 Single Face Body
Part #1602

Header Panel Retainers

Bleed Cover
Part #1692

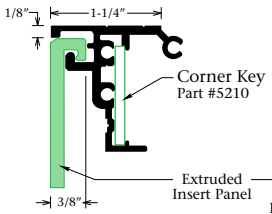


Frameless Cover
Part #1693

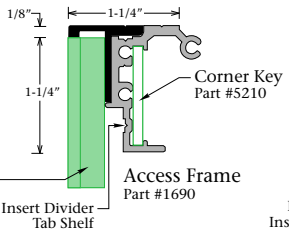


Flush Insert Panel Retainers

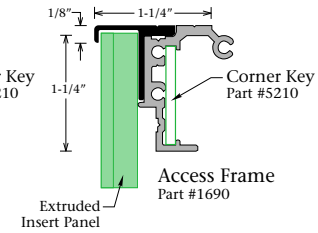
Insert Retainer
Part #1666



Insert End Cover
Part #1696

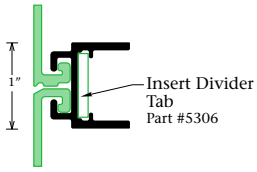


Extended Insert End Cover
Part #1698



Flush Insert Panel Divider

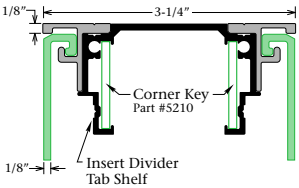
Insert Divider
Part #1668



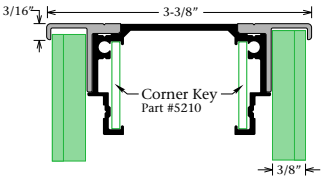
Non-Hingeable

Series 3 Access Body
Part #1290

Insert Top/Bottom Cover
Part #1292

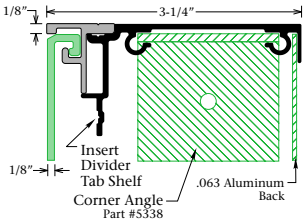


Extended Insert End Cover
Part #1698

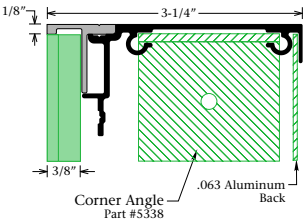


Series 3 Single Face Access Body
Part #1291

Insert Top/Bottom Cover
Part #1292



Insert End Cover
Part #1696



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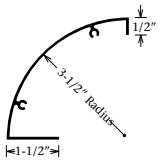
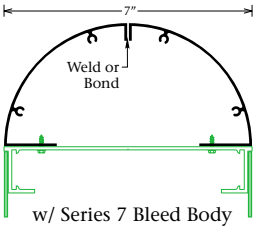
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16″.

Architectural System Specifications

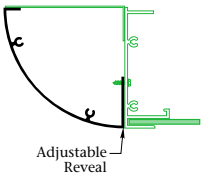
3-1/2″ Radius Extrusion

1/4 Round End
Part #1670





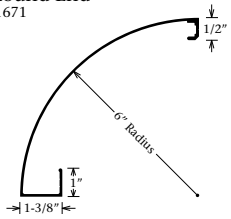
w/ Series 7 Bleed Body

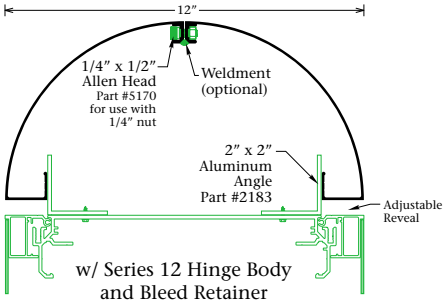


w/ Series 7 1/2 Slide Body

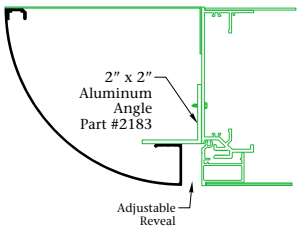
6″ Radius Extrusion

1/4 Round End
Part #1671



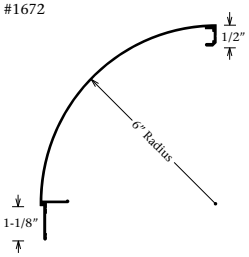


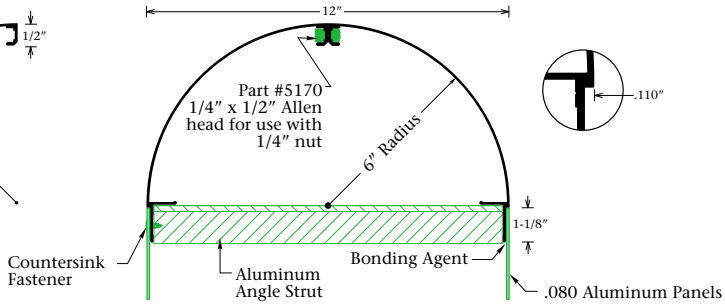
w/ Series 12 Hinge Body and Bleed Retainer



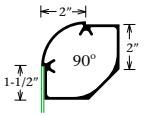
w/ Series 7 Single Face Body and Bleed Retainer

1/4 Round Pole Cover
Part #1672

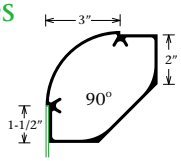




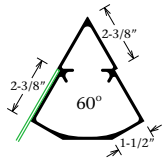
Monolithic Edges



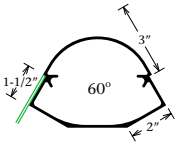
2″ Radius Edge
Part #1880



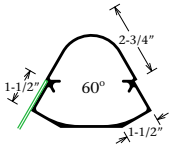
3″ Radius Edge
Part #1890



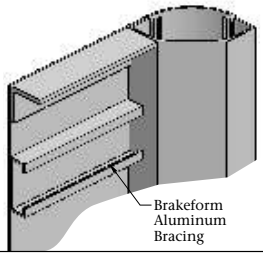
Sharp Edge
Part #1850

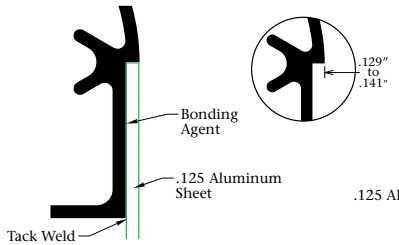


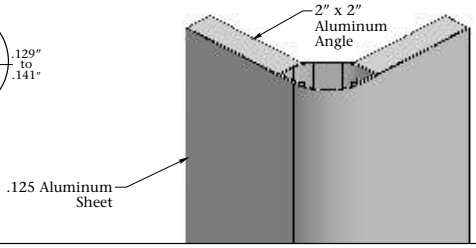
2-1/2″ Radius Edge
Part #1870



1-1/2″ Radius Edge
Part #1860







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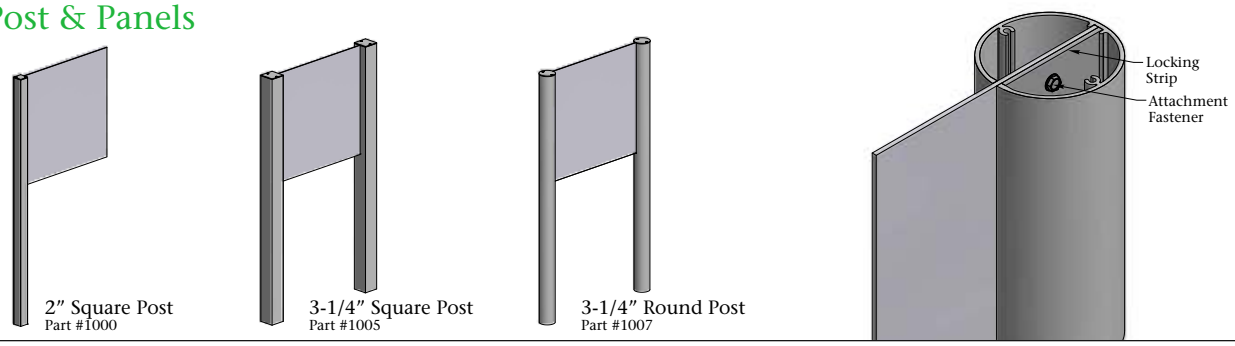
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Assemblies

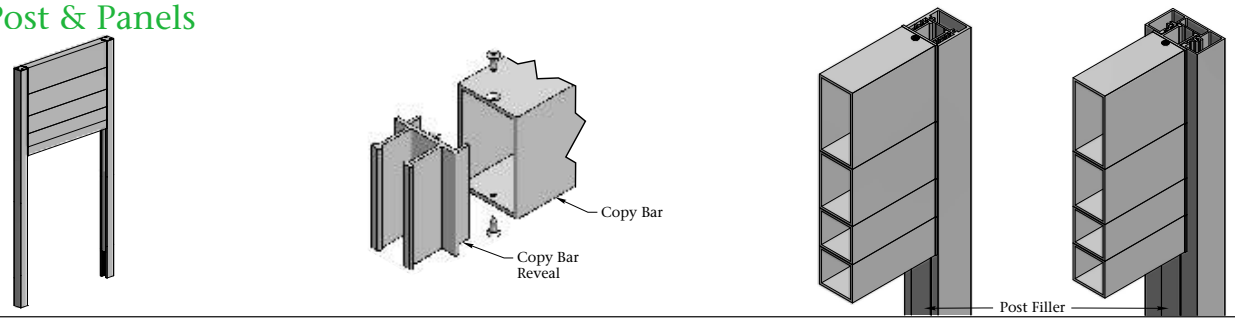
Series 1 Post & Panels

See pages 47 & 61 for additional information.



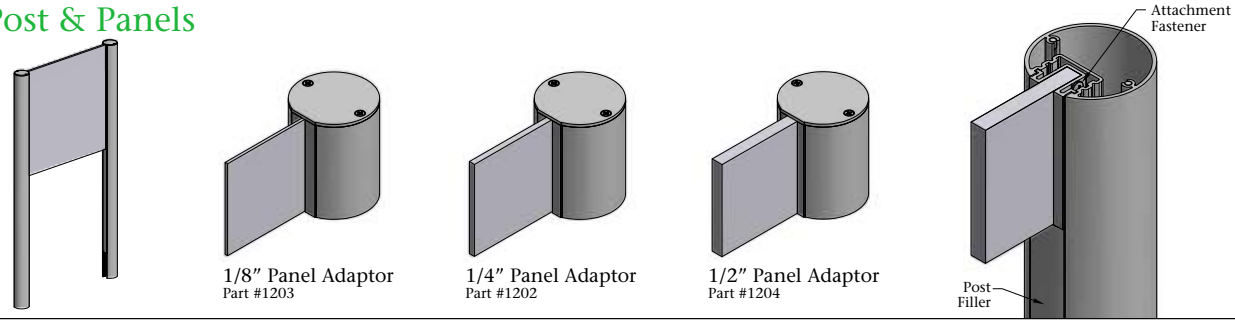
Series Copy Bar Post & Panels

See pages 47 & 61 for post options, reveal positions and additional information.



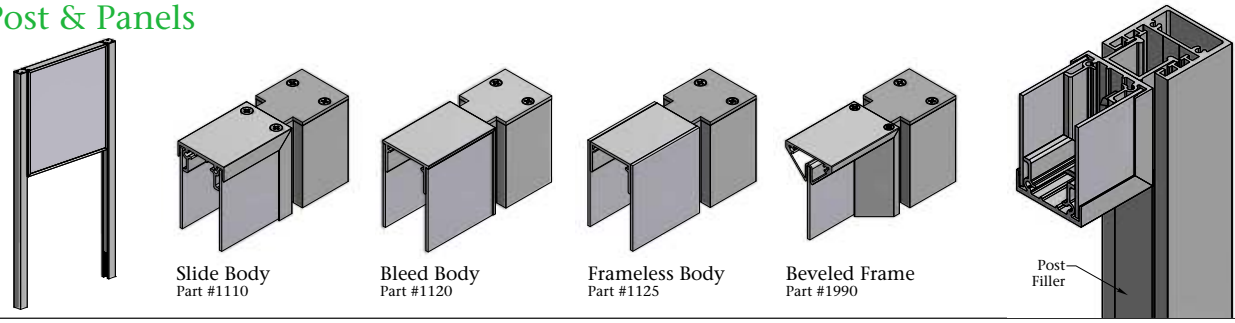
Series Panel Adaptor Post & Panels

See pages 48 & 61 for post options and additional information.



Series 2 Post & Panels

See pages 48 & 62 for post options, reveal positions and additional information.



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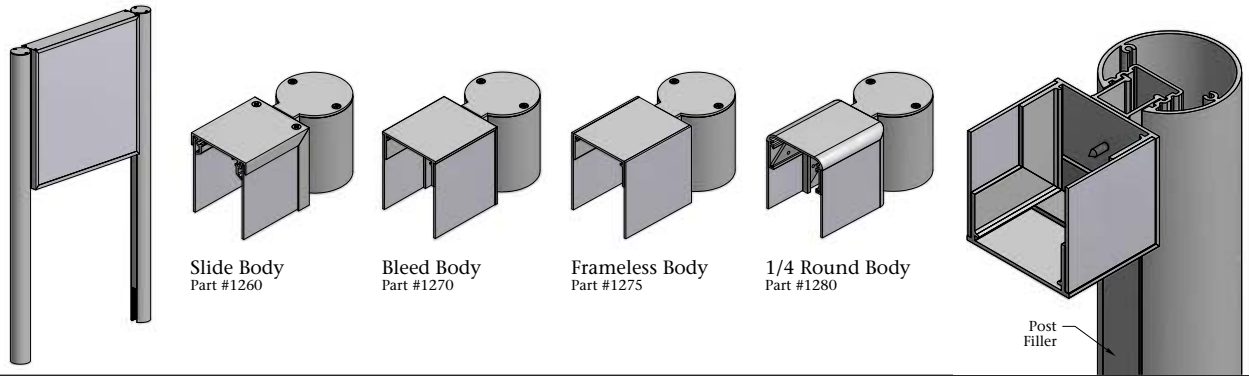
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

Architectural System Assemblies

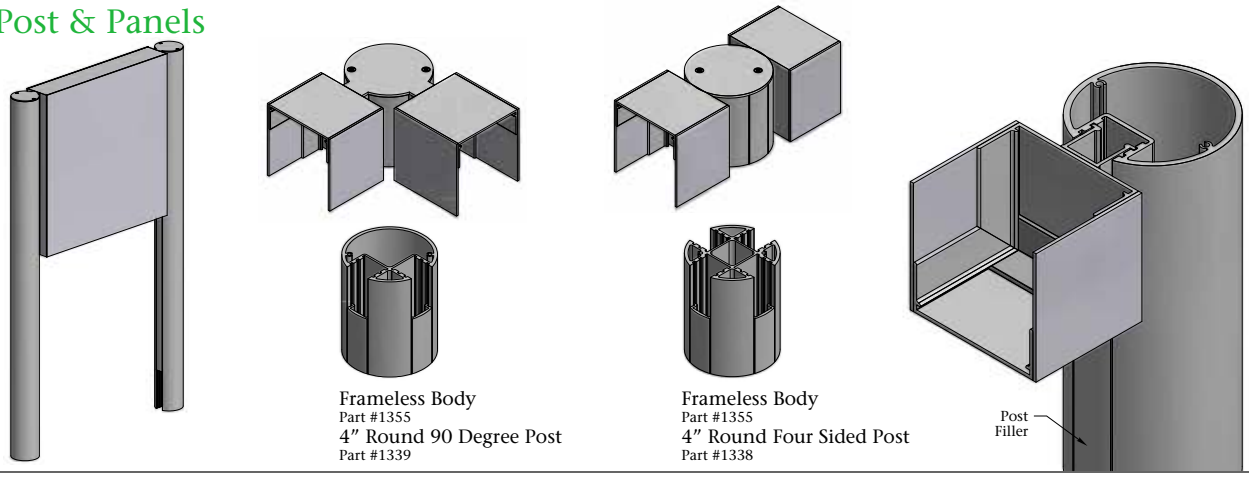
Series 3 Post & Panels

See pages 48 & 62 for post options, reveal positions and additional information.



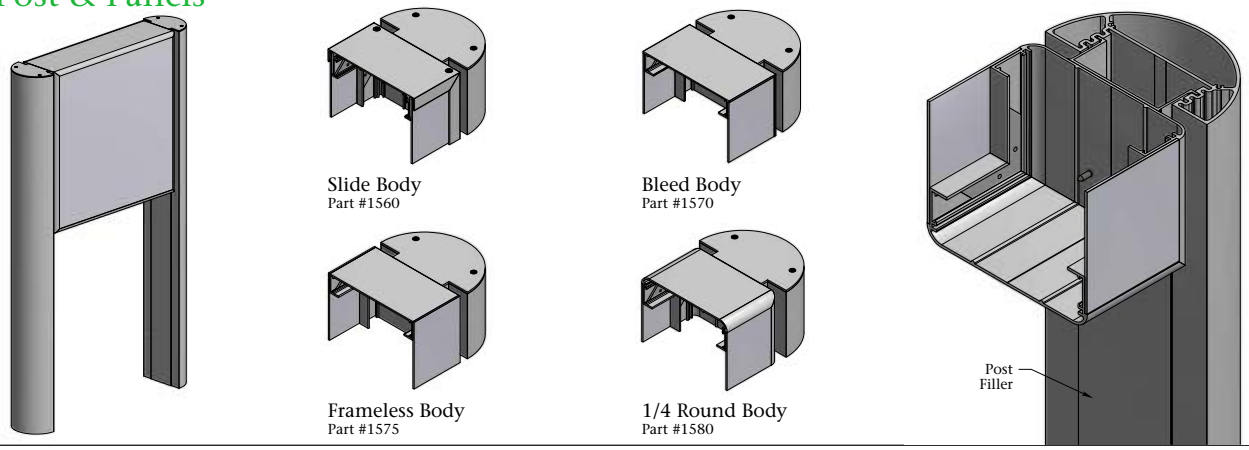
Series 4 Post & Panels

See pages 49 & 62 for post options, reveal positions and additional information.



Series 7 Post & Panels

See pages 49 & 62 for post options, reveal positions and additional information.



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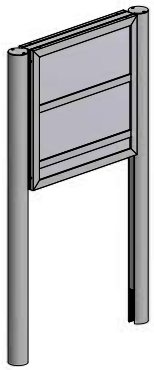
Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

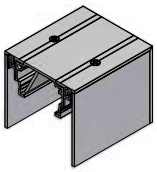
Architectural System Assemblies

Series 3 Access Body Post & Panels

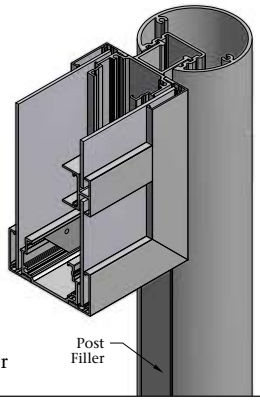
See pages 48, 50 & 63 for post options, reveal positions and additional information.

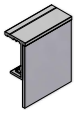


Single Face Access Body
Part #1291
Insert Top/Bottom Cover
Part #1292



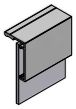
Access Body
Part #1290
Insert Top/Bottom Cover
Part #1292





Bleed Cover
Part #1692

Frameless Cover
Part #1693



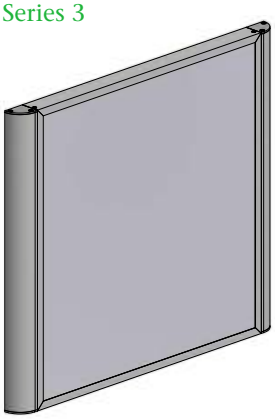
Slide Cover
Part #1694

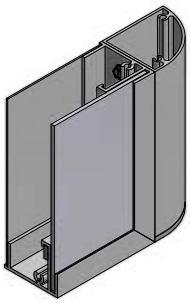
Radius Slide Cover
Part #1695

1/2 Slide Body Wall Mount Systems

See pages 48-49 & 63 for additional information.

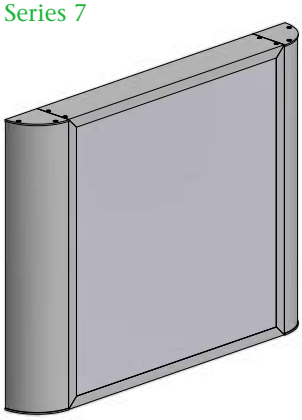
Series 3

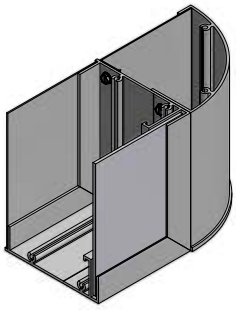




1/2 Slide Body
Part #1265
Optional
1/4 Round End
Part #1215

Series 7

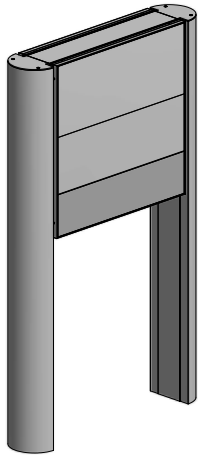


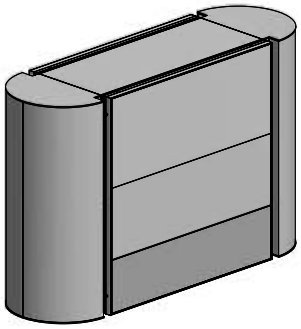


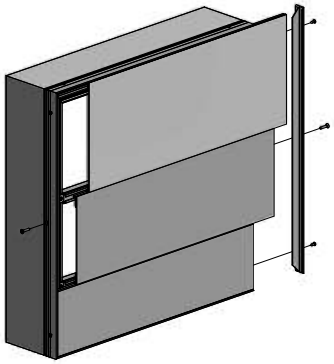
1/2 Slide Body
Part #1565
Optional
1/4 Round End
Part #1670

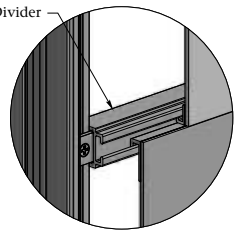
Insert Panels

See pages 48, 53 & 64 for body and post options, reveal positions and additional information.









Insert Retainer
Part #1666
Access Frame
Part #1290

Cover Options
Extended Insert End Cover
Part #1698
Extended Insert End Cover
Part #1698

US Patent Number 4,817,317

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Note: All dimensions are subject to the tolerance standards of the aluminum extrusion industry. Profile drawings are illustrative and rounded to the nearest 1/16".

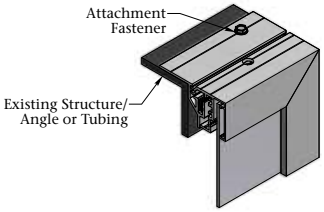
Architectural System Assemblies

Hingeable Body Systems

See pages 51-52 & 64-66 for additional information.

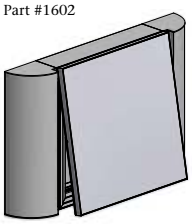
Series 7/12 Retro Body

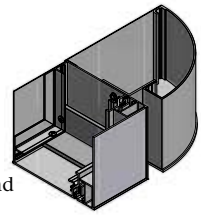
Part #1600



Series 7 Single Face Body

Part #1602

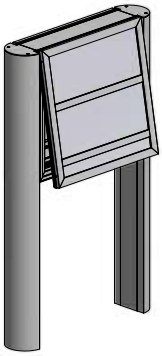


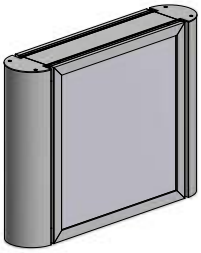


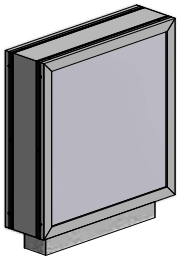
Optional
1/4 Round End
Part #1671

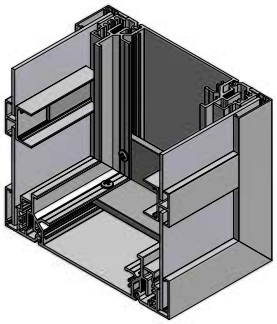
Series 7 Hinge Body

Part #1592



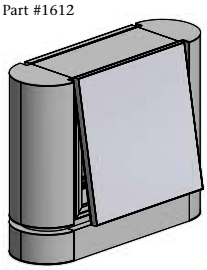


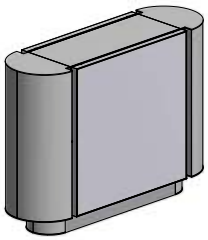


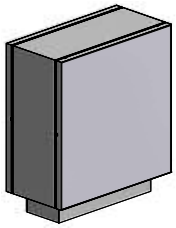


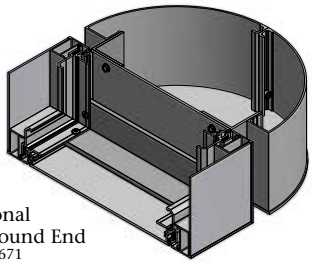
Series 12 Hinge Body

Part #1612





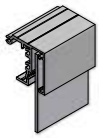




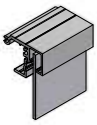
Optional
1/4 Round End
Part #1671

Hingeable Retainers

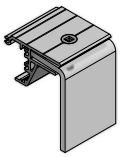
Slide Retainer
Part #1624



3/4" Slide Retainer
Part #1626

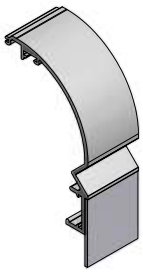


Frameless Rigid Retainer
Part #1628

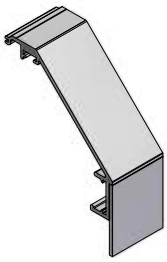


Extended 1/4 Round Retainer
Part #1650

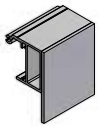
Extended 1/4 Round Retainer w/Reveal
Part #1655



Beveled Retainer
Part #1656

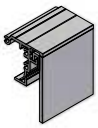


Frameless Retainer
Part #1631



Bleed Retainer
Part #1632

Insert Retainer
Part #1666



1/4 Round Retainer
Part #1640

Note: The Hingeable Retainers are designed to integrate with all of the Architectural Hinge Bodies.

US Patent Number 4,817,317

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Additional Information

General Information

- **The Commercial bodies and retainers shall be cut 1" longer than the nominal T-12 lamp size for horizontal or vertical lamping.**
- General guidelines for lamp spacing: Double the distance between the front of the lamp and the back of the plastic face for your center to center lamp measurement. Maximum center to center is 12".
- Extrusion bodies, retainers, frames and covers are engineered for mechanical fastening, bonding with adhesive, or welded assembly.
- It is recommended to use safety chains and prop-bars on all hingeable faces.
- Assembly instruction sheets available.

Included in Kit Pricing

- Mill Finish or Dk. Bronze.
- Cut to size and mitered bodies.
- Cut to size and mitered retainers, frames and covers.
- All Body Corner Angles and/or Corner Keys as required.
- Packaging.

Included in Vandal System:

- Cut to size and mitered Inner Frame(s).
- Cut to size and mitered Outer Frame(s).
- Cut to size Hinge.
- Locks.

Not Included in Kit Pricing

- Faces or Backs.
- Electrical components.
- Structural supports, Frame Support Tube, back braces and gussets.
- Attachment of Hinge.
- Drilling of holes for locks and attachment of locks.

Optional Accessories:

- Radius Corners. See pages 12 & 46
- Raceway Covers. See pages 13 & 44
- Divider Bar. See pages 9, 22 & 41, 52
- Gas Supports and mounting hardware. See page 30
- Frame Support Tube. See page 9
- Tension Tool. See page 13

Mill Finish

- No prior surface preparation. Surface scratches, die lines and imperfections present. **Not ready for paint.**

Dk. Bronze

- Exposed aluminum surfaces are coated with Quaker Dark Bronze primer/topcoat.
- Limited additional colors are available, minimum order will apply.

Pricing

- All prices are effective as of March 1, 2015. Due to fluctuation in the raw aluminum market, prices are subject to change without notice.
- Packaging is included in list prices.
- Freight shall be collect, F.O.B. SignComp.

Additional Information

Freight Policy

- The freight shall be prepaid, F.O.B. Grand Rapids, Michigan for single orders of extrusions and/or accessories whereby the invoiced amount is $5,000.00 or more to any single destination within the continental United States or Canada.
- The freight shall be collect, F.O.B. Grand Rapids, Michigan for all orders other than as stated in this freight policy.
- All freight claims for freight collect shipments are the sole responsibility of the buyer.
- Any requests for expedited freight services shall be the sole expense of the buyer.
- Combining stock items with custom run items qualifies for freight prepaid status only when all items ship as one shipment.

Minimum Order

- Any single full length extrusion profile and/or prepackaged accessories.
- Any single kit.

Availability

- Typical extrusion and accessory orders ship within three (3) days upon receipt and acceptance of your purchase order.
- All orders will receive an approximate ship date upon receipt and acceptance of the written purchase order and confirmation.

Return Policy

- Returns of SignComp products will not be accepted without prior authorization and written RMA number from SignComp.
- Materials may not be returned for any reason other than defective product or incorrect fulfillment of order.
- All goods to be returned must be acknowledged in writing within the 60 day grace period from the date of the shipment. Any claims after this period will be considered invalid.
- All returned goods **must be in new and saleable condition** for full credit to be issued.

Additional Product Offerings

- Custom extrusions. Mill shipment programs.
- Pre-painted and cut to length extrusion programs.

Backorder Policy

- In the very unlikely event of a back order, the back order will be shipped freight prepaid only if the original order qualified for freight prepaid status.
- Additional materials may be added to any back order, shipped freight prepaid with the additional freight expense the responsibility of the buyer.
- Any expedited freight service requested by the buyer shall be at the expense of the buyer.

Exclusive Warranty and Remedies

- In effect as of January 1, 2008.
- This is the exclusive warranty policy of SignComp, LLC, Grand Rapids, Michigan 49544 (the "Company") with respect to any and all of its products.

Exclusive Warranty

- The Company warrants you as the original purchaser that the Company's products will be free from defects in materials and workmanship, under normal conditions, upon shipment of said products from the Company, for 30 days.
- This exclusive warranty does not apply to damage caused by improper handling. The company shall have no liability or responsibility for any damage whatsoever caused by handling.
- The Company hereby disclaims any and all other warranties, including, without limitation, implied warranties of merchantability and fitness for a particular purpose. The only warranty with respect to the Company's products is described in this exclusive warranty. No oral or written representations shall extend the Company's exclusive warranty beyond that description herein.

Warranty Procedures

- The purchaser must notify the Company of any warranty claim prior to initiating any remedy upon the defective product. Upon receipt of such notice, the Company will direct that an authorized representative inspect the product and, if necessary, correct the defect in accordance with this exclusive warranty. The Company shall have the exclusive right to determine whether or not a defect is covered by this exclusive warranty.

Remedies

- Provided that the warranty procedures are followed, the Company will repair and/orreplace the defective SignComp product(s) during the applicable warranty period without charge for parts or labor.
- Repair and/or replacement of defective SignComp products is your exclusive remedy under the Company's exclusive warranty.
- The Company shall not be liable for any incidental or consequential damages if the Company's product is defective or does not conform to this exclusive warranty. In any event the maximum amount for which the Company shall be liable to the purchaser shall be the original purchase price of the defective SignComp product(s).
- Any claim for breach of this exclusive warranty shall be brought, if at all, no later than 30 days from the Company's breach.

Address for Notification

- Notice of a product defect covered by this exclusive warranty can be made in writing or by telephone. The Company's address and telephone numbers are:

SignComp, LLC, 3032 Walker Ridge Dr. NW, Grand Rapids, MI. 49544
Attention: Customer Service - Phone: (616) 784-0405
Toll Free: (877) 784-0405
Fax: (616) 784-0411
e-mail: signcomp@signcomp.com

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Environmentally Friendly SignComp Products • Processes • Facility

Our Mission: To promote business and personal practices that will decrease our impact on the environment and minimize our carbon footprint by reducing the demands placed upon our planet in an earth-friendly way.

SignComp™

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