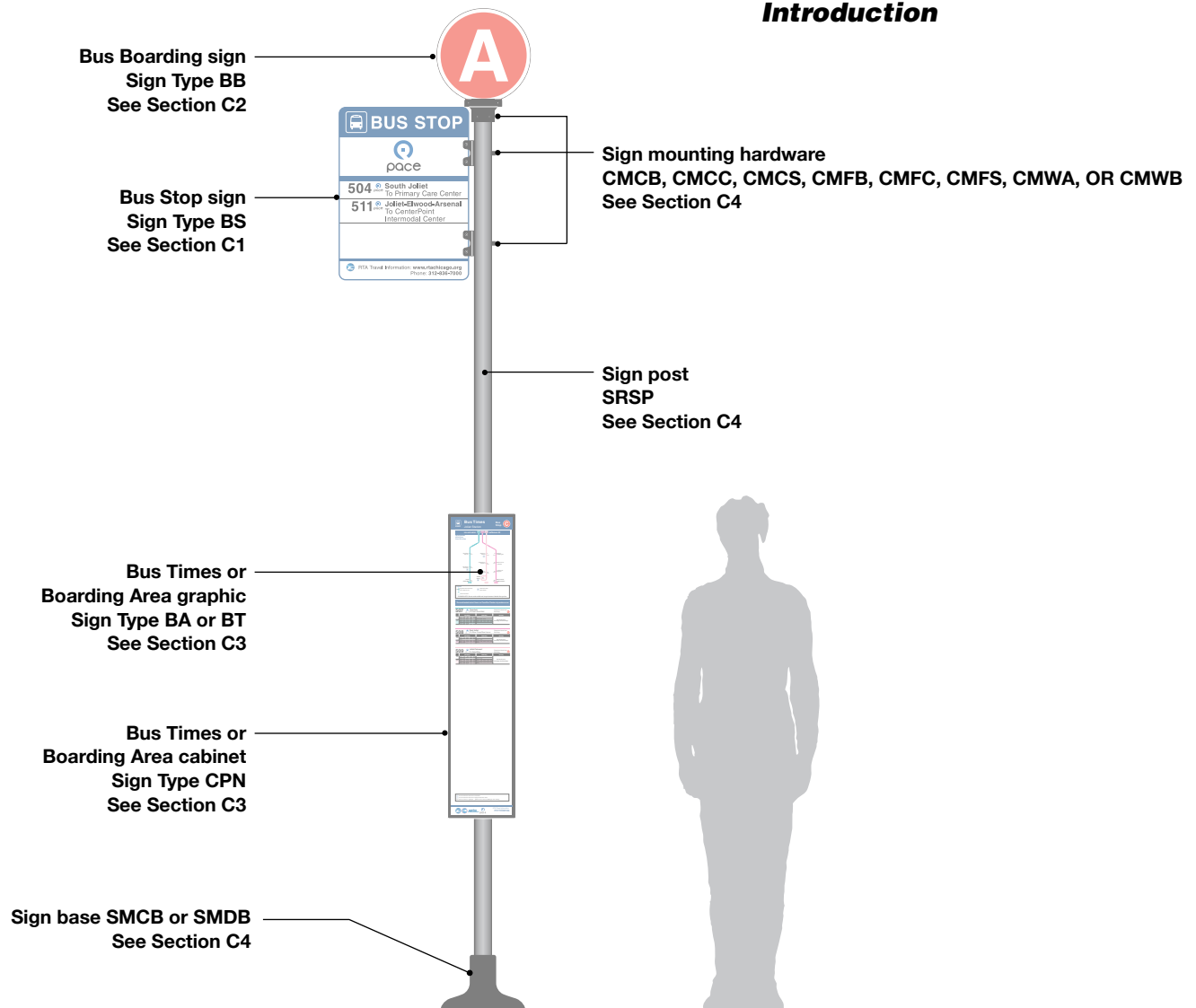


PART C
Bus Stop Signs
Bus Boarding Signs
Bus Area, Bus Times Product
Post & Hardware

Introduction



Description

General

Part C general reference.



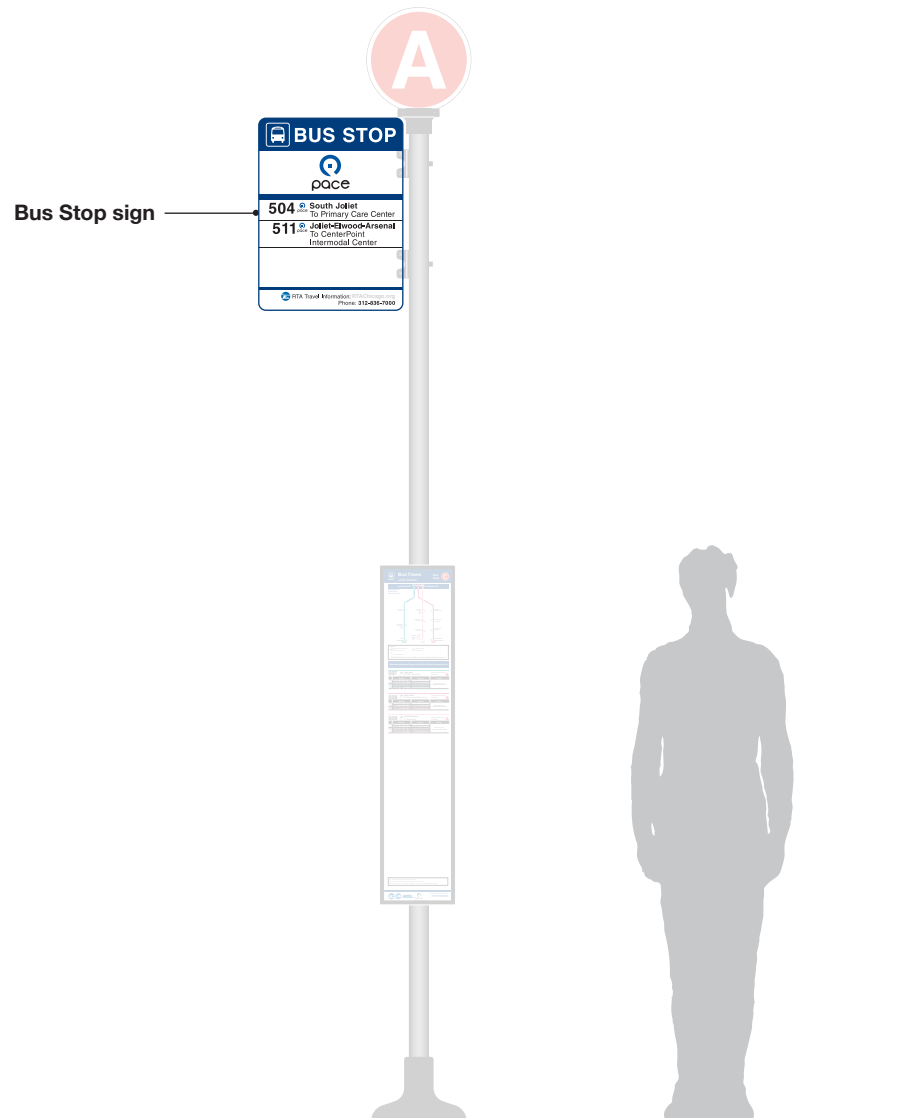
**RTA Interagency Signage
Standards Manual**

Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section C1
C0.1

SECTION C1 Bus Stop Signs

Section Introduction



Description

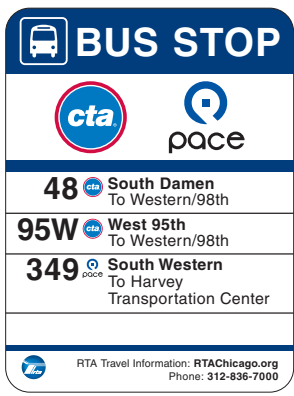
General

Section C1 General Reference.



SECTION C1
Bus Stop Signs

Sign Type Overview



Sign Type BS
Bus Stop Sign

The Bus Stop signs include route numbers and descriptions.

Description

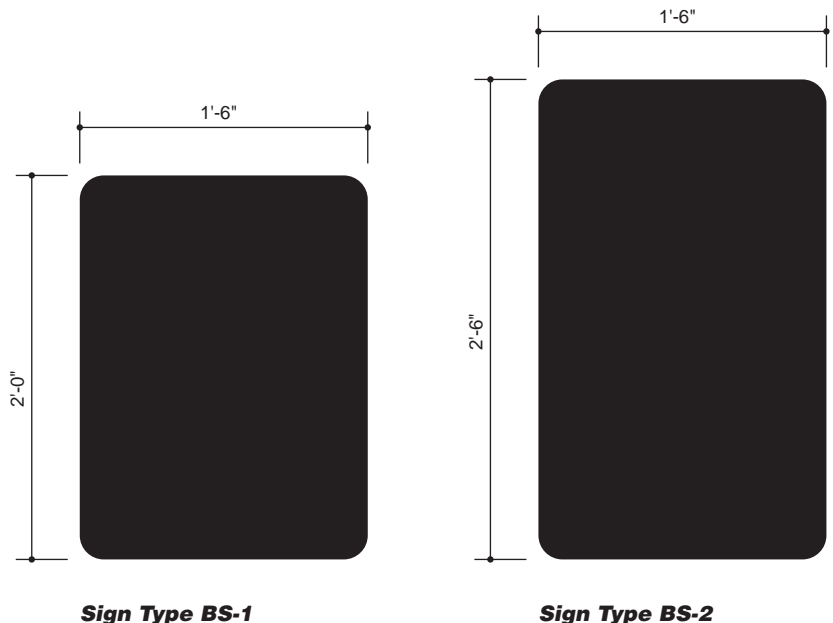
General

The BS series sign types identify bus stops and provide bus route information.



SECTION C1
Bus Stop Signs

Standard Size Summary



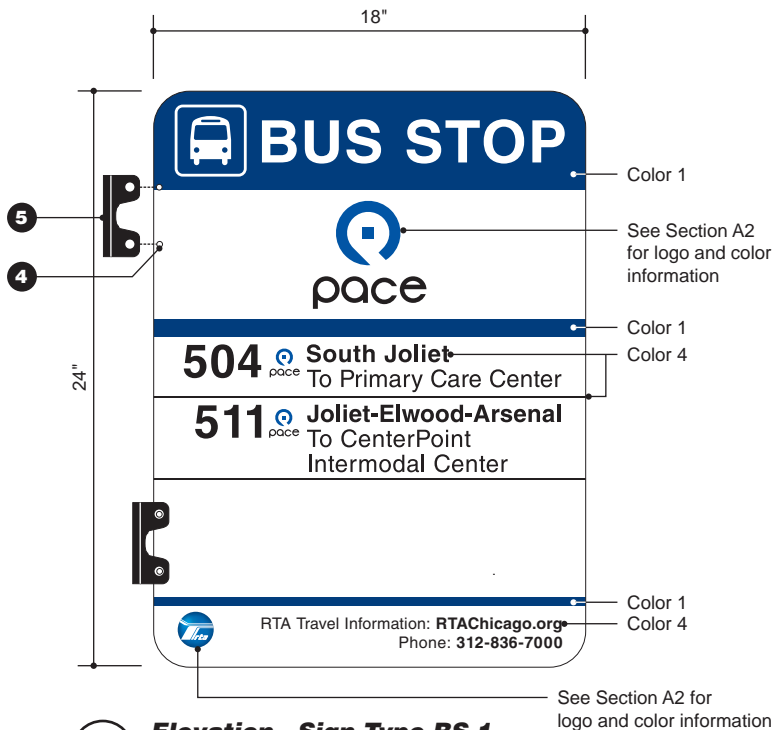
Description

General

The BS series sign types are available in two sizes.



SECTION C1 Bus Stop Signs Sign Types BS-1 and BS-2 General Information

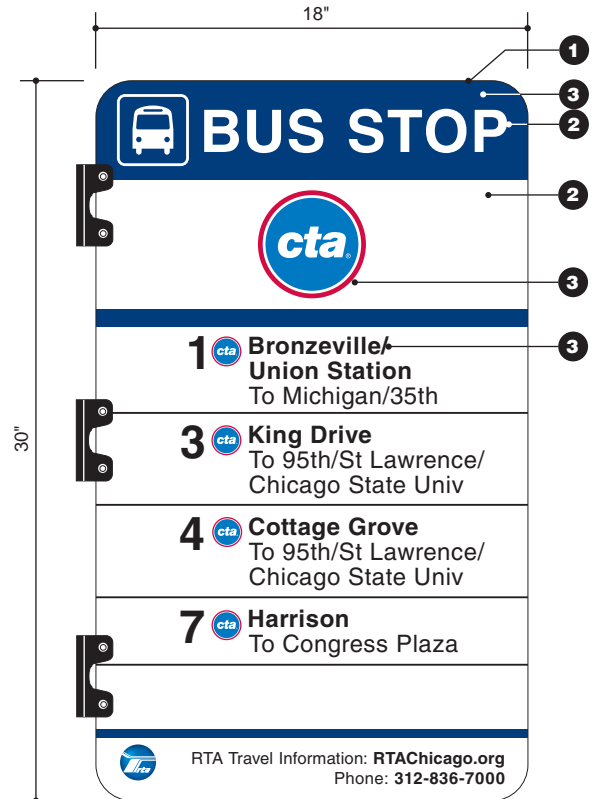


1 Elevation - Sign Type BS-1

Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:

For locations where BS series signs are mounted to new sign posts, see Section C4 for information on the posts and the sign mounting brackets and hardware.



2 Elevation - Sign Type BS-2

Scale: 1 1/2" = 1'-0"

For locations where BS series signs are mounted to existing sign posts or other existing structures, see Section C4 for information on the sign mounting brackets and hardware.

Description

General

Sign types BS-1 and BS-2 are double sided panels that identify bus stops and provide bus route numbers and information. The information displayed on each BS sign will be unique. The messages shown are for reference only. Digital art for sign type BS may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing BS signs as precedents for layout. Digital template files, base art files for the header and footer graphics, and bus schedule information shall be supplied by the RTA. All new BS graphics must be reviewed and accepted by the RTA prior to production of the final signs. See the Technical Specifications for additional information. See page C1.5 for Design and Layout Notes.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel with 1.5" radius corners.

2 Reflective Background

The overall background of the sign and the white text and graphics shall be printable white 3M Engineer Grade Reflective Sheeting or an equal reflective film accepted by the RTA.

3 Digitally Printed Graphics

The graphics shall be digitally printed directly onto the reflective sheeting using custom formulated UV-resistant, exterior-grade inks. Colors shall be transparent, black shall be opaque. The inks shall be formulated to be compatible with the reflective sheeting, match the colors specified, and preserve the sheeting reflectivity. Protect the printed graphics with an exterior grade clear protective anti-graffiti

overlaminates that is compatible with the reflective sheeting and the printed graphics. The reflective sheeting and the clear overlaminate shall be trimmed flush with the edges of the sign.

4 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of mounting bracket and other mounting hardware to be used with the sign. All holes shall be drilled in the shop.

5 Mounting Brackets/Hardware

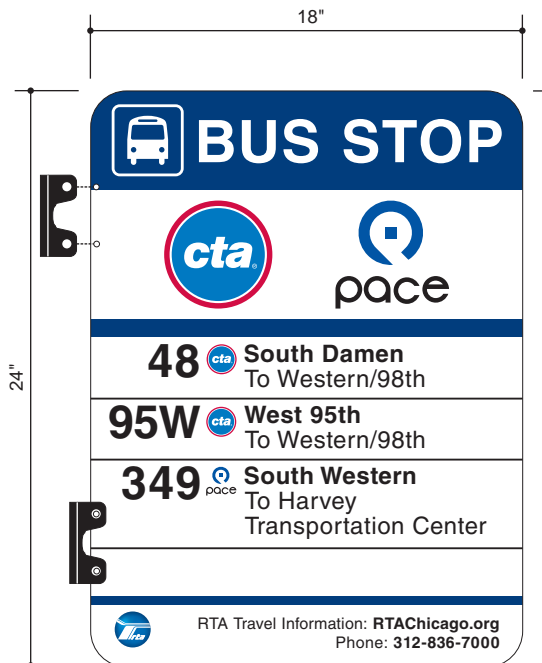
See Section C4 for information on the mounting brackets and hardware to be used with sign type BS.



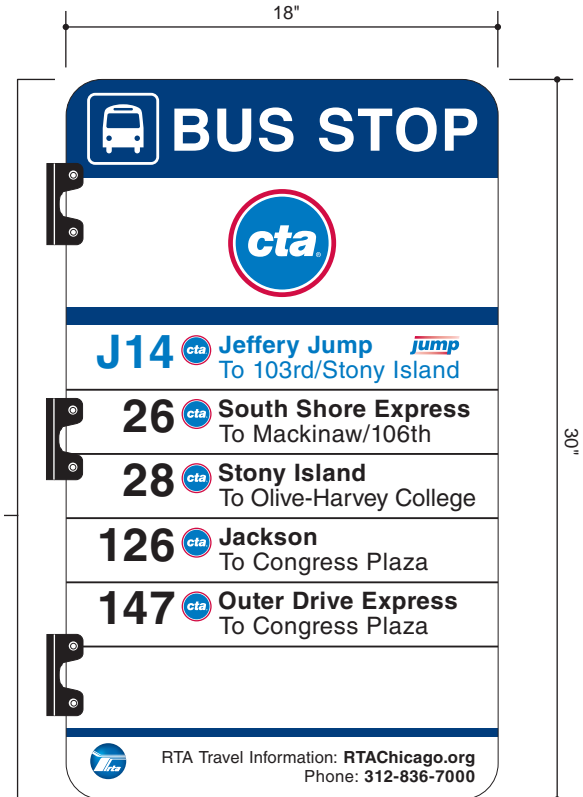
SECTION C1 Bus Stop Signs

Sign Types BS-1 and BS-2

Design and Layout Notes



"BS-1_[Facility Name]_[Stop ID]_[Print Size].ai" or
"BS-2_[Facility Name]_[Stop ID]_[Print Size].ai"



1

Elevation - Sign Type BS-1

Scale: 1 1/2" = 1'-0"

2

Elevation - Sign Type BS-2

Scale: 1 1/2" = 1'-0"

Description

General Design and Layout Information – BS Signs

- Digital art for new BS signs shall be prepared using Adobe Illustrator.
- Headers and footers for all BS signs have a standard layout. The information shown in the headers and footers does not vary.
- Large CTA and Pace logos are 4 1/2" high. Logos are centered in area above the route listings. If both CTA and Pace bus routes serve the stop, then both logos appear centered in the band, spaced 2 5/8" apart.
- Bus route numbers are aligned to the right. Bus routes are presented in numerical order.
- CTA and Pace logos appear to the right of the bus route numbers. The tops of the logos align with the top of the typography.
- Bus route names and destinations appear to the right of the logos. Text describing the bus route destinations appears below the bus route names. Route names appear in Bold and route destinations appear in Roman.
- Route names and route destination descriptions should be as consistent as possible with the destination descriptions provided in Pace and CTA printed schedules. If route names or destination descriptions need to be edited in order to fit on the sign, the edited description should match the printed description as closely as possible.
- A 1" margin on either side of the sign panel should be kept clear of route numbers and route description text in order to prevent the numbers or text from being obscured by the panel mounting brackets. If it is absolutely necessary for numbers or text to run into the 1" margin, verify that the numbers or text will not be obscured by the mounting brackets.
- At bus stop locations that serve a large number of bus routes, an additional bus stop sign may need to be added in order to display all of the bus routes. For each sign, the same information shall appear on both sides of the sign.
- Select the smallest sign required to display the bus routes. If the routes do fit on sign type BS-1, use sign type BS-2. If the routes do not fit on BS-2, a second BS-2 panel shall be added. At locations where more than one bus stop sign is required, all the signs shall be the same size. Typography and symbol sizes and styles for new BS signs shall match typography and symbols on existing BS signs.



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Standards Manual

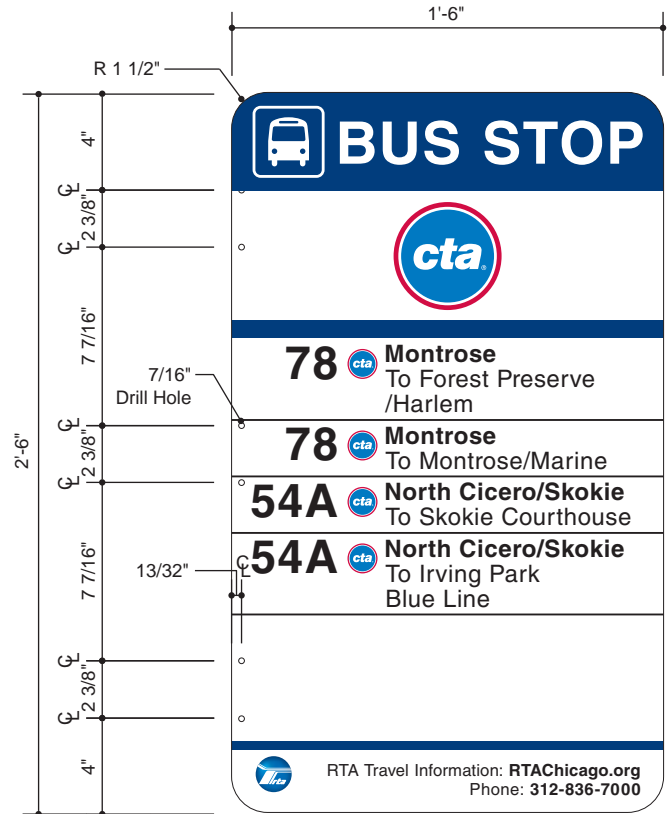
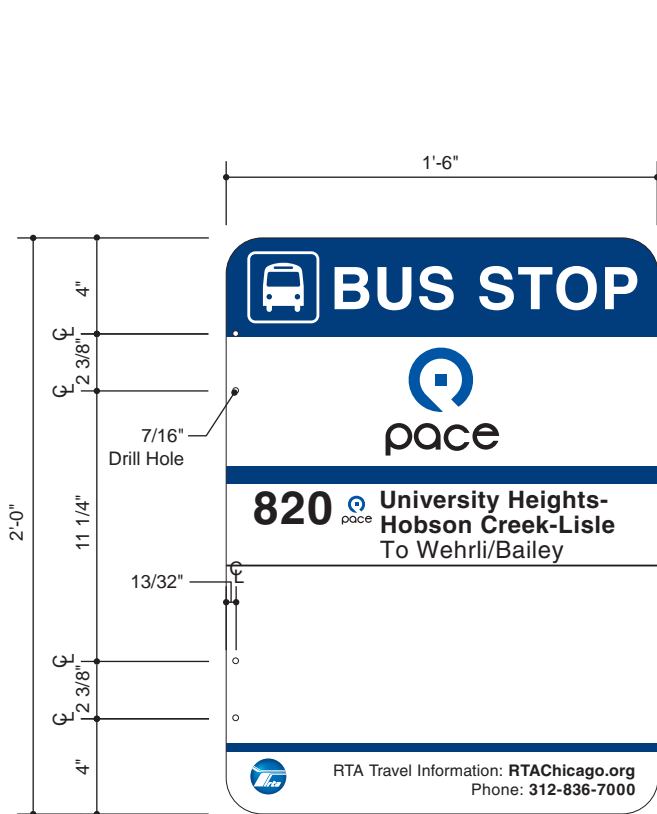
Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section C1
C1.5

SECTION C1 Bus Stop Signs

Sign Types BS-1 and BS-2

Mounting Bracket Hole Placement



1 Elevation - Sign Type BS-1
Scale: 1 1/2" = 1'-0"

2 Elevation - Sign Type BS-2
Scale: 1 1/2" = 1'-0"

Description

General

Sign types BS-1 and BS-2 are double sided panels that identify bus stops and provide bus route numbers and information. The information displayed on each BS sign will be unique.

The messages shown are for reference only.



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Section C1
C1.6

SECTION C2
Bus Boarding Signs

Section Introduction



Description

General

Section C2 General Reference.



SECTION C2 Bus Boarding Signs

Sign Type Overview



Sign Type BB-1
Bus Boarding Area Identification Post
Topper

Sign type BB-1 is typically used when new posts are provided.



Sign Type BB-1 Rotated
Bus Boarding Area Identification Flag

Special rotated version of sign type BB-1 is typically used where new signs are mounted to existing posts, columns, or walls.



Sign Type BB-2
Bus Boarding Area Identification Flag

Sign type BB-2 is typically used where new signs are mounted to existing posts, columns, or walls.



Sign Type BB-3
Combination Bus Stop and Bus
Boarding Area Identification Flag

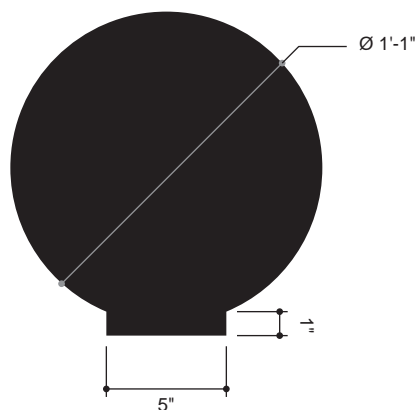
Sign type BB-3 is typically used when it is not possible to install a BB-1 or BB-2 sign.

Description

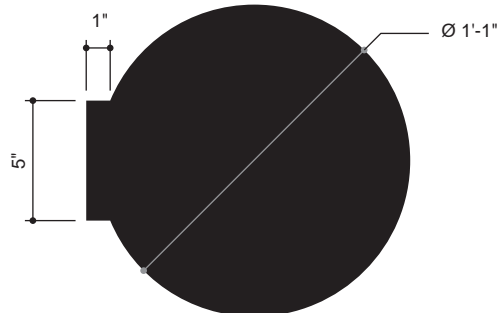
General

Sign type BB is used at bus stop locations where lettered boarding areas are to be identified.

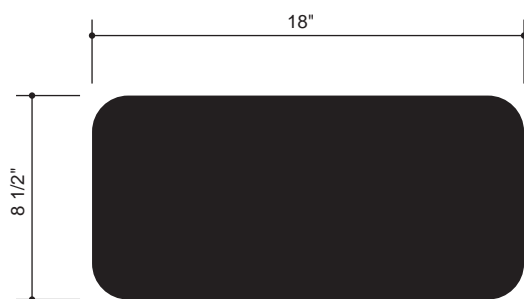
SECTION C2
Bus Boarding Signs
Standard Size Summary



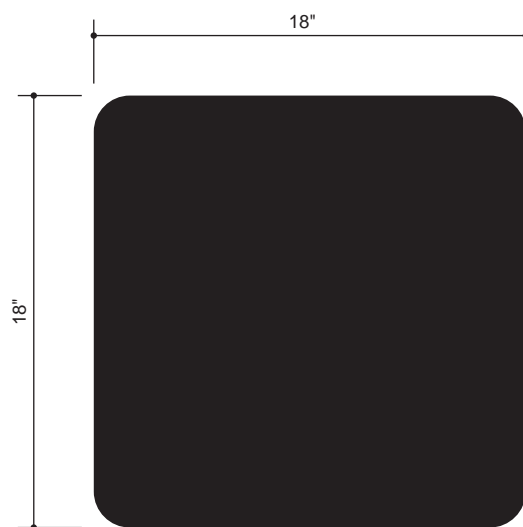
Sign Type BB-1



Sign Type BB-1 Rotated



Sign Type BB-2

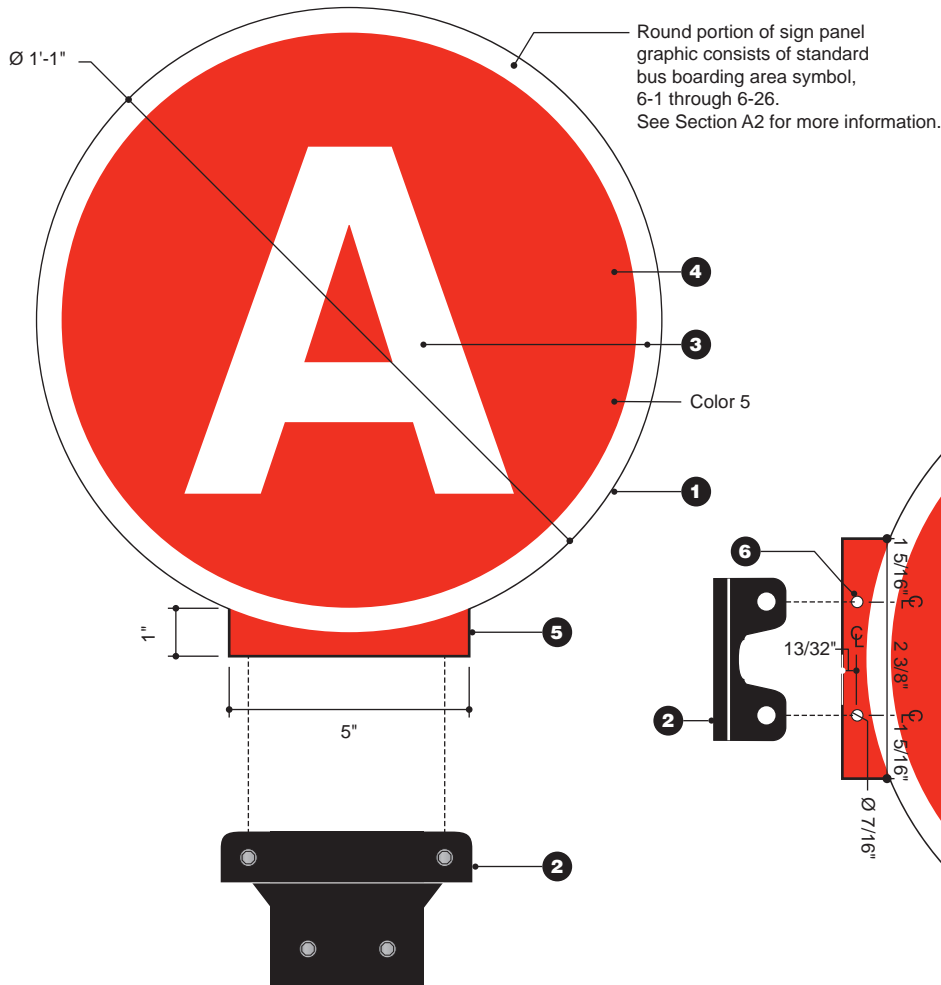


Sign Type BB-3

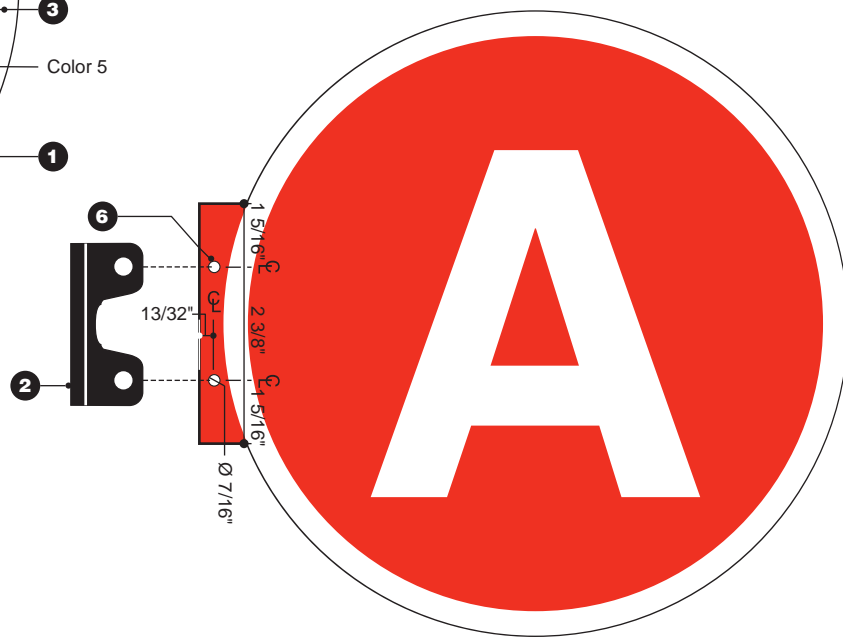
Description

General

Sign type BB is available in four sizes.



1 **Elevation - Sign Type BB-1**
Scale: 3" = 1'-0"



2 **Elevation - Sign Type BB-1 Rotated**
Scale: 3" = 1'-0"

Sign Post and Sign Mounting Information:

Sign type BB-1 is typically used at locations using new sign posts. A version of sign type BB-1 that is rotated 90° is used when the sign is mounted to existing posts or structures. See Section C4 for information on the posts and the sign mounting brackets and hardware.

Description

General

Sign type BB-1 are aluminum, double sided panels that identify lettered bus boarding areas. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each sign type BB-1 location. Digital art for sign type BB-1 may be provided by the RTA. When directed to do so by the RTA, develop the required graphics using Adobe Illustrator. Symbol art shall be provided by the RTA.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel.

2 Mounting Brackets / Hardware

See Section C4 for information on the mounting brackets and hardware to be used with sign type BB-1.

3 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium, cast, white printable graphic film. The film shall be applied to both sides of the sign panel.

4 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the

graphic film. Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics. The printed graphic film and overlamine shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

5 Mounting Tab

Coordinate the mounting tab with the mounting bracket to be used with the sign.

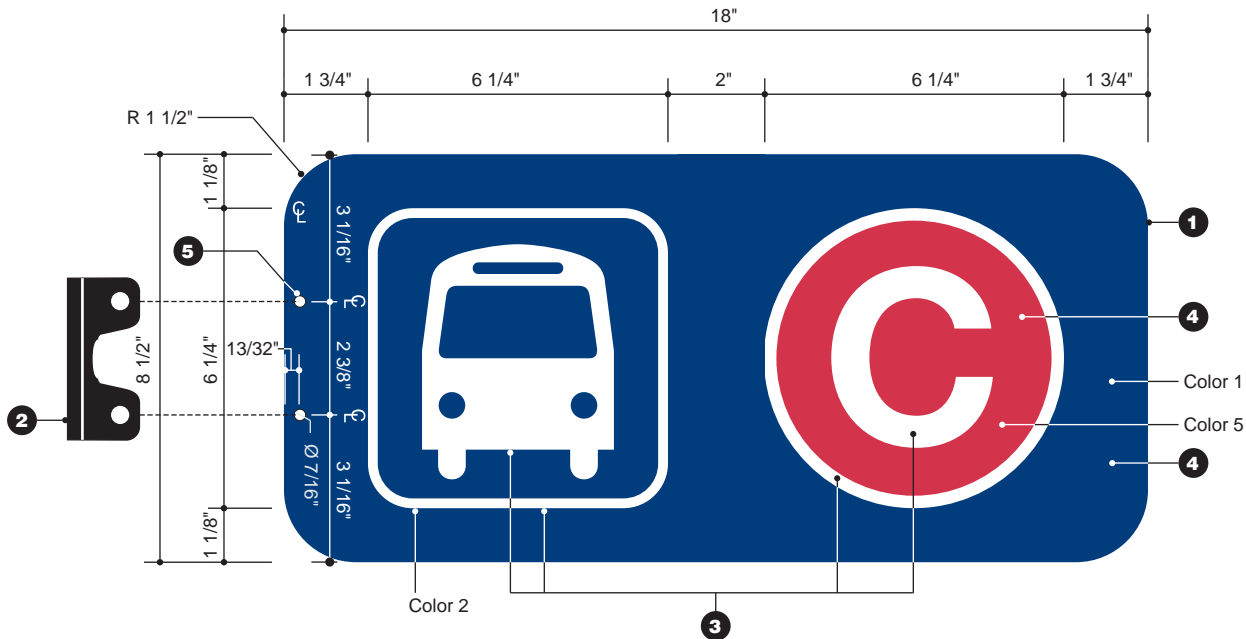
6 Holes for Mounting Hardware (Rotated Version Only)

Coordinate the location and size of mounting holes with the type of mounting bracket and other mounting hardware to be used with the sign. All holes are to be drilled in the shop.

SECTION C2 Bus Boarding Signs

Sign Type BB-2

General Information



1

Elevation - Sign Type BB-2

Scale: 3" = 1'-0"

Sign Post and Sign Mounting Information:

For locations where sign type BB-2 signs are mounted to new sign posts, see Section C4 for information on the posts and the sign mounting brackets and hardware.

For locations where sign type BB-2 signs are mounted to existing sign posts or other existing structures, see Section C4 for information on the sign mounting brackets and hardware.

Description

General

Sign type BB-2 are aluminum, double sided panels that identify lettered bus boarding areas. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each sign type BB-2 location. Digital art for sign type BB-2 may be provided by the RTA. When directed to do so by the RTA, develop the required graphics using Adobe Illustrator. Symbol art shall be provided by the RTA.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel with 1.5" radius corners.

2 Mounting Brackets / Hardware

See Section C4 for information on the mounting brackets and hardware to be used with sign type BB-2.

3 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium, cast, white printable graphic film. The film shall be applied to both sides of the sign panel.

4 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match

the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics. The printed graphic film and overlamine shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

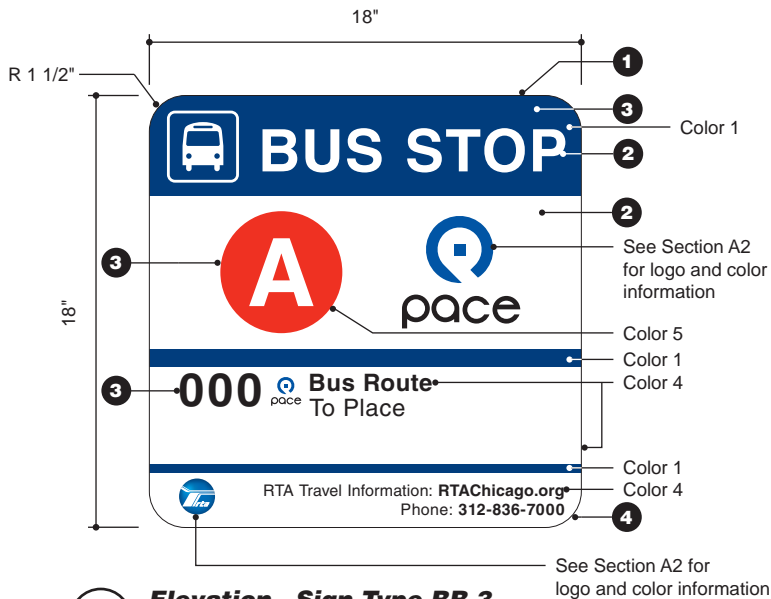
5 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of mounting bracket and other mounting hardware to be used with the sign. All holes are to be drilled in the shop.

SECTION C2 Bus Boarding Signs

Sign Type BB-3

General Information



1 Elevation - Sign Type BB-3

Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:

For locations where sign type BB-3 signs are mounted to new sign posts, see Section C4 for information on the posts and the sign mounting brackets and hardware.

For locations where sign type BB-3 signs are mounted to existing sign posts or other existing structures, see Section C4 for information on the sign mounting brackets and hardware.

Description

General

Sign type BB-3 is a double sided panel that identifies bus stops and provides bus route numbers and information. The sign also identifies bus boarding areas. BB-3 signs are typically installed at locations where a BB-1 or BB-2 sign can not be used. The information displayed on each BB-3 sign will be unique. The messages shown are for reference only. Digital art for sign type BB-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing BB-3 signs as precedents for layout. Digital template files, base art files for the header and footer graphics, and bus schedule information shall be supplied by the RTA. BB-3 signs use the same header, footer, and bus route layout as BS-1 and BS-2 signs. See page C1.5 for Design and Layout Notes for BS-1 and

BS-2 signs. All new BB-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs. See the Technical Specifications for additional information.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel with 1.5" radius corners.

2 Reflective Background

The overall background of the sign and the white text and graphics shall be printable white 3M Engineer Grade Reflective Sheeting or an equal reflective film accepted by the RTA.

3 Digitally Printed Graphics

The graphics shall be digitally printed directly onto the reflective sheeting using custom formulated UV-resistant, exterior-grade inks.

Colors shall be transparent, black shall be opaque. The inks shall be formulated to be compatible with the reflective sheeting, match the colors specified, and preserve the sheeting reflectivity. Protect the printed graphics with an exterior grade clear protective anti-graffiti overlaminate that is compatible with the reflective sheeting and the printed graphics. The reflective sheeting and the clear overlaminate shall be trimmed flush with the edges of the sign.

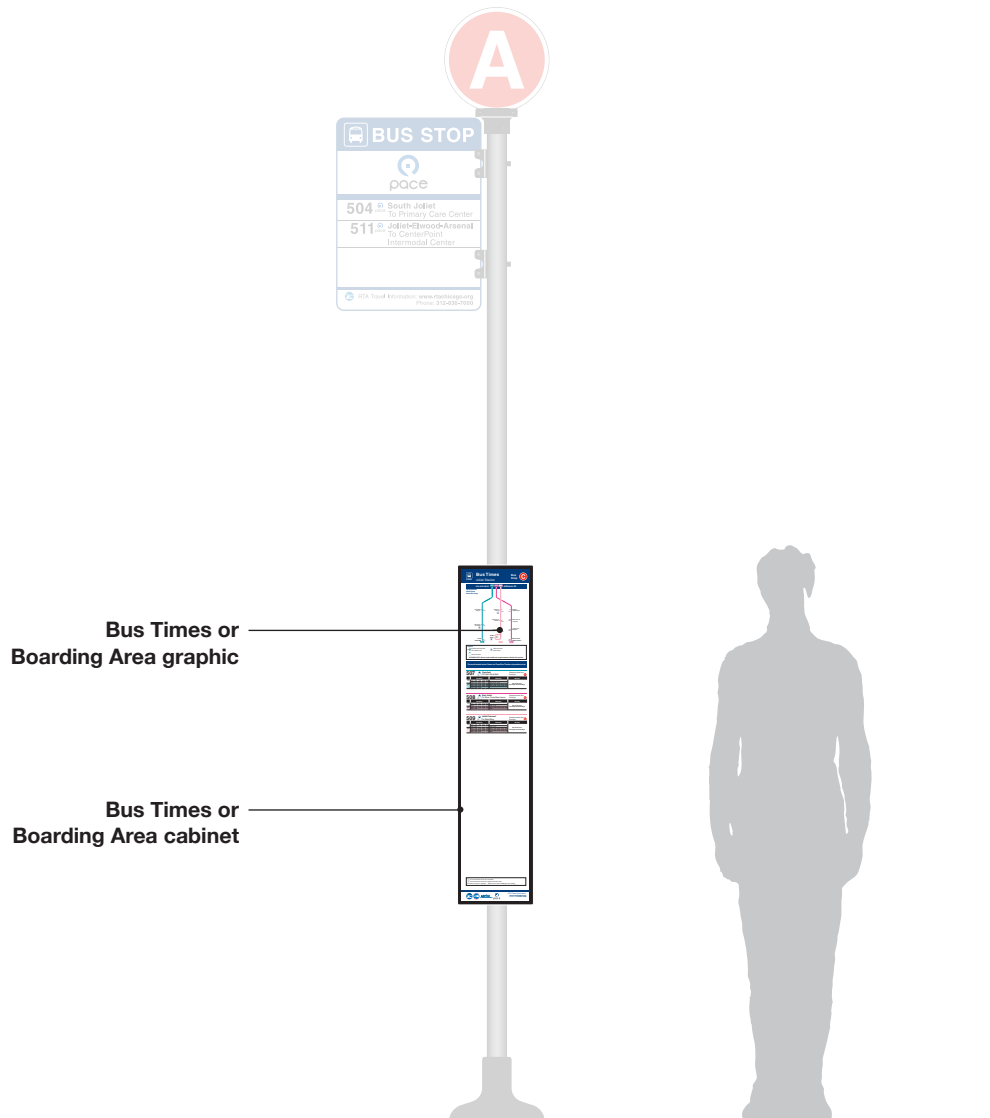
4 Mounting

BB-3 signs may be mounted to new sign posts, existing sign posts, or other existing structures. Coordinate sign fabrication with the type of mounting bracket and other mounting hardware to be used with the sign. All holes are to be drilled in the shop.



SECTION C3 Boarding Area & Bus Times Products

Section Introduction



Description

General

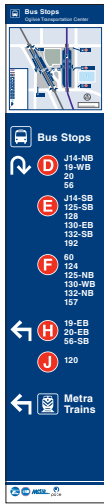
Section C3 General Reference.



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Revised: 07.22.16,
04.17.19

**Section C3
C3.1**



Sign Type BA
Boarding Area Graphic

The Boarding Area graphic directs to the the bus boarding areas for a particular location.



Sign Type BT
Bus Times Graphic

The Bus Times graphic shows bus route and schedule information at a particular boarding area.



CPN Series Cabinet
Bus Area / Bus Times graphic Display

The CPN sign cabinet houses the BA and BT printed products.

Description

General

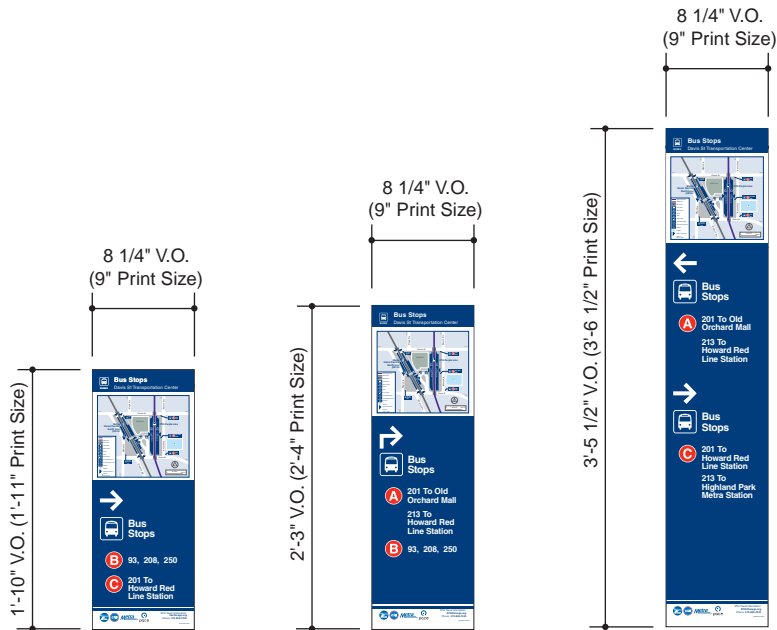
The BA and BT sign types provide information about bus boarding areas as well as bus route and schedule information. The BA and BT sign types are mounted in the CPN series sign cabinets.

SECTION C3 Boarding Area & Bus Times Products

Sign Type & Cabinet Overview

SECTION C3 Boarding Area & Bus Times Products

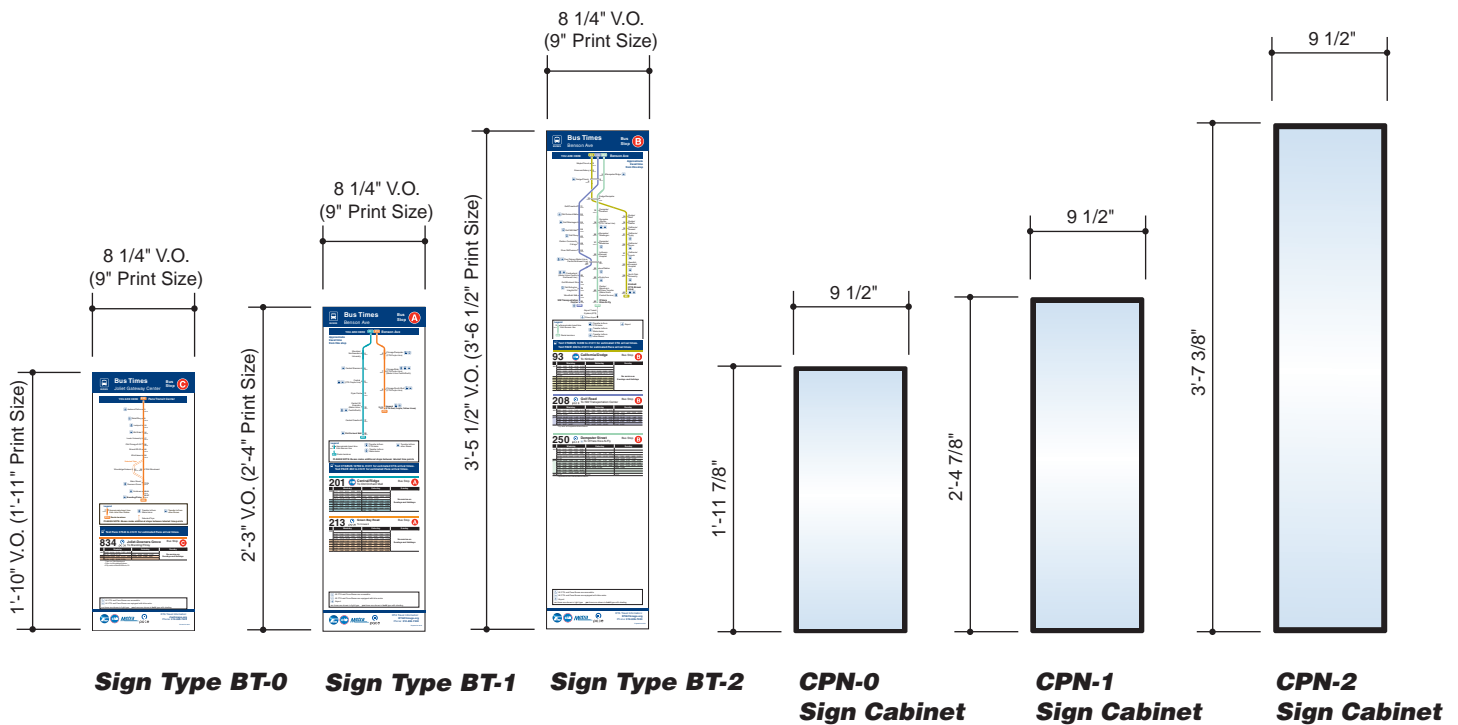
Standard Size Summary



Sign Type BA-0

Sign Type BA-1

Sign Type BA-2



Sign Type BT-0

Sign Type BT-1

Sign Type BT-2

**CPN-0
Sign Cabinet**

**CPN-1
Sign Cabinet**

**CPN-2
Sign Cabinet**

Description

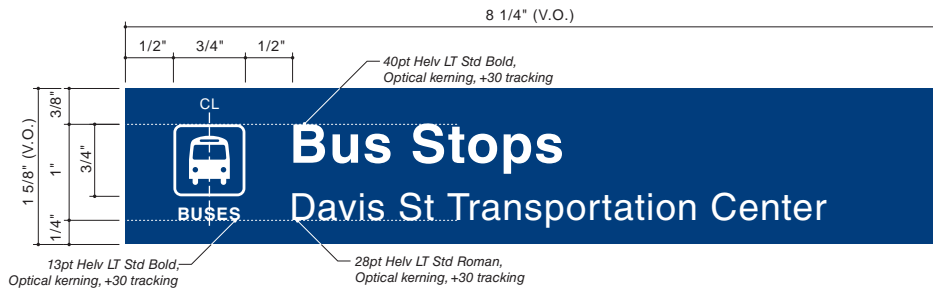
General

The BA and BT sign types, as well as the CPN sign cabinets are available in two sizes.

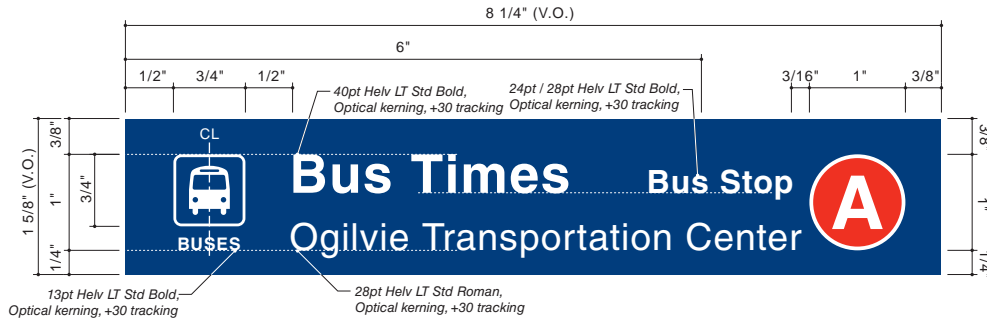


SECTION C3 Boarding Area & Bus Times Products

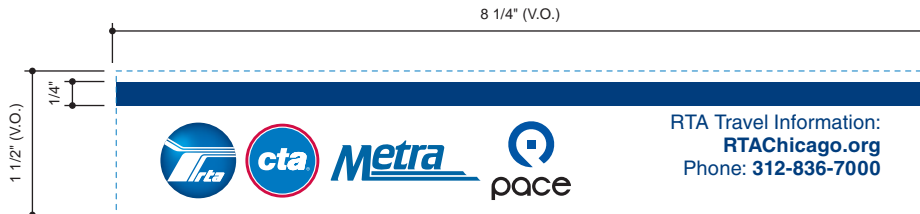
Header and Footer Layouts



1 Elevation - Header for Sign Type BA Scale: 1/2" = 1"



2 Elevation - Header for Sign Type BT Scale: 1/2" = 1"



3 Elevation - Footer for Sign Types BA and BT Scale: 1/2" = 1"

Description

Shown are the typical layouts for the header and footer portions of the following sign types:

BA – Boarding Area
BT – Bus Times

Headers shall include the mode symbol for Buses. The primary header text for sign type BA shall always be "Bus Stops." The primary header text for sign type BT shall always be "Bus Times." The sign type BT header also includes a boarding area letter symbol that varies by location. The secondary header text for both sign types shall identify the bus boarding area location and shall also vary by location.

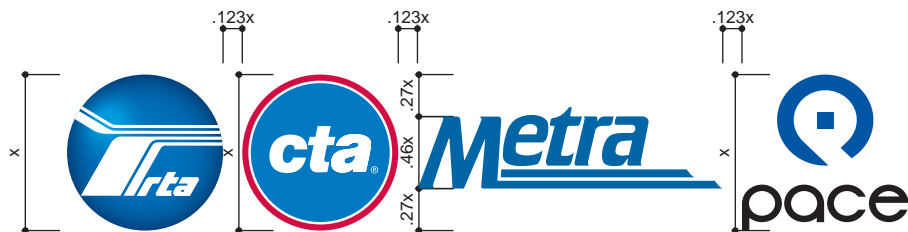
The footer graphics for sign types BA and BT do not vary with location. All footers for sign types BA and BT shall include contact

information for RTA Travel Information, as well as the RTA and Service Board Logos.

Digital base art files, for use when developing final art for sign type BA and BT header and footer graphics, shall be provided by the RTA.

SECTION C3 Boarding Area & Bus Times Products

Footer Logo Proportions



1 Proportions of Logos in Footer Graphics

Scale: N.T.S.

Description

When they appear in the footers of interagency signs and graphics, the RTA and Service Board logos shall be sized as shown in this Manual. Shown are the proportions for sizing and placing the RTA and Service Board logos when they appear in the footers of the following sign types:

BA – Boarding Area
BT – Bus Times

For similar interagency graphics that include the RTA and Service Board logos that are not currently covered by this manual, the RTA and Service Board logos shall typically be sized per the proportions indicated.

Pre-production proofs, or similar pre-production review graphics, of all interagency signs and graphics shall be provided for review by the RTA prior to final production of any signs or graphics.



**RTA Interagency Signage
Standards Manual**

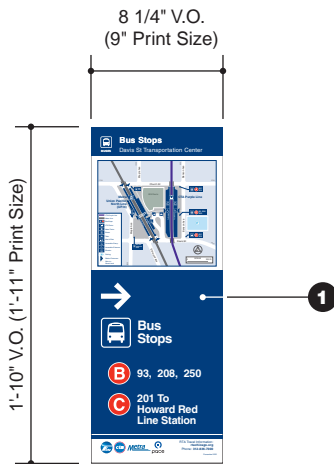
Date: 08.29.14
Revised: 07.22.16,
04.17.19

**Section C3
C3.5**

SECTION C3 Boarding Area & Bus Times Products

Boarding Area Graphic Sign Type BA

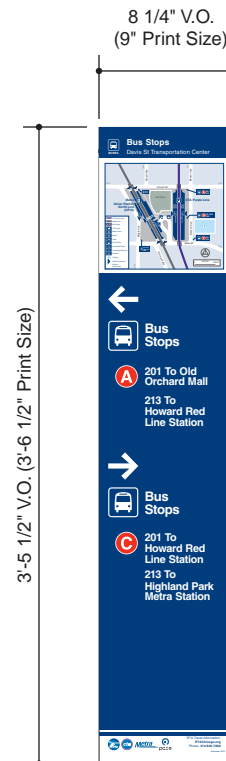
General Information



1 Elevation - Sign Type BA-0
Scale: 1" = 1'-0"



2 Elevation - Sign Type BA-1
Scale: 1" = 1'-0"



3 Elevation - Sign Type BA-2
Scale: 1" = 1'-0"

Associated Sign Cabinet Information:

Sign type BA is mounted using a type CPN sign cabinet.
See page C3.10 for additional information.

Description

General

Sign type BA provides information on the location of bus boarding areas. Sign type BA signs are mounted at bus stop locations. Sign type BA content will vary with location. See page C3.7 for Design and Layout Notes.

1 Boarding Area Graphic

Sign type BA graphics shall be digitally printed at high resolution using UV-resistant inks directly onto a substrate to be specified by the RTA. The graphics shown are for reference only.

Final content for each sign type BA shall vary with location. Typical content shall include a simplified map of the area surrounding the interagency location, directions to bus boarding areas, and identification of the bus routes that can be accessed at each boarding area. The sign type BA map shall include the location and type of transportation options available, bus boarding areas, pick-up and drop-off locations, and nearby parking. Digital art for sign type BA may be provided by the RTA. When directed to do so by the RTA, determine the final content

and develop the final art for the required site-specific graphics using existing BA signs as precedents for content, layout, and color.

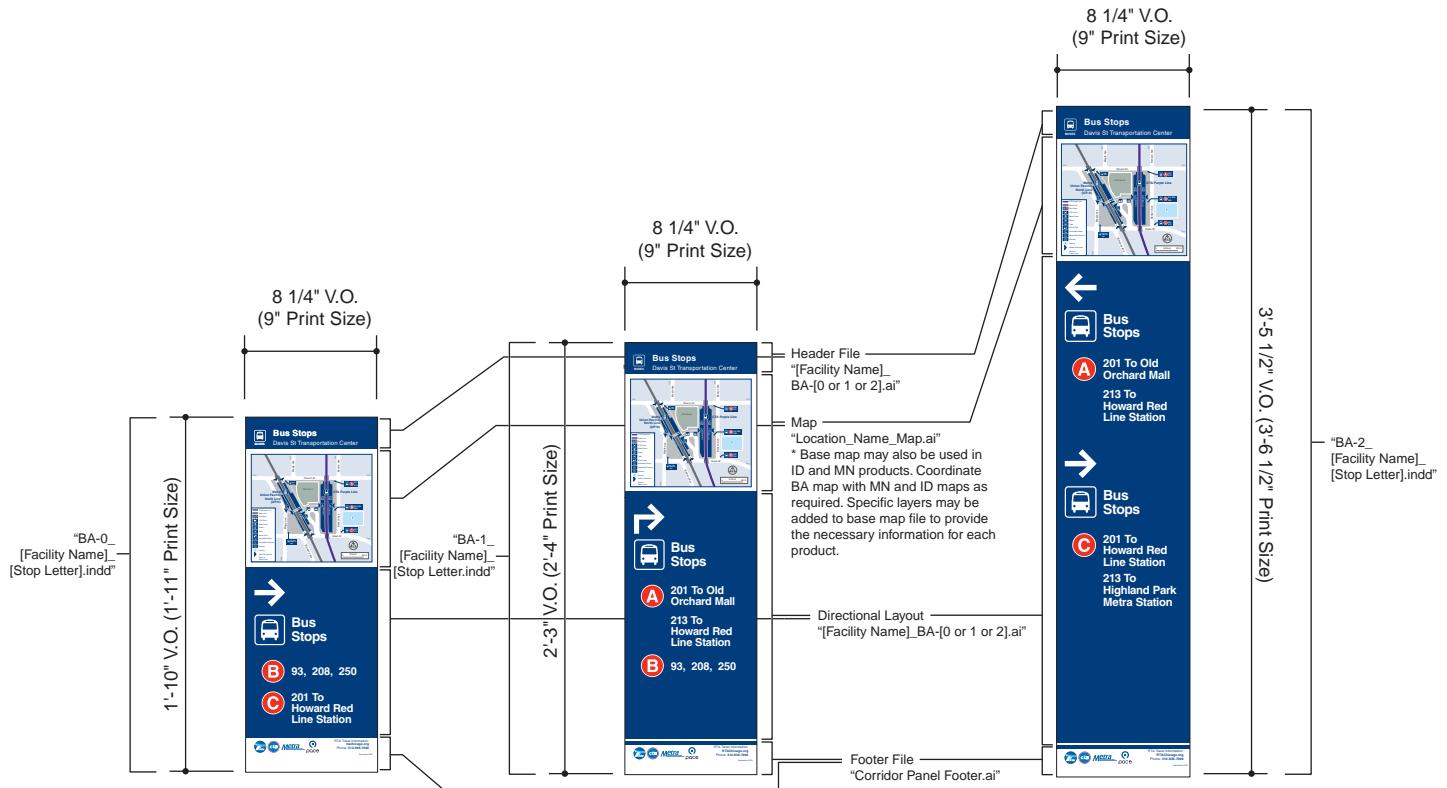
Examples of existing BA signs, digital template files for the sign type BA graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new sign type BA graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) sizes for sign types BA-0, BA-1 and BA-2 are shown. Coordinate the BA-0, BA-1 and the BA-2 graphics and the overall panel sizes with the sign cabinets.

SECTION C3 Boarding Area & Bus Times Products

Boarding Area Graphic Sign Type BA

Design and Layout Notes



1 Elevation - Sign Type BA-0
Scale: 1" = 1'-0"

2 Elevation - Sign Type BA-1
Scale: 1" = 1'-0"

3 Elevation - Sign Type BA-2
Scale: 1" = 1'-0"

Description

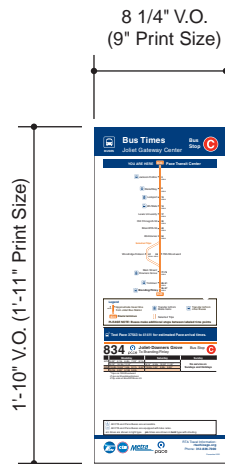
General Design and Layout Information - BA Signs

- Each sign type BA typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Headers and footers for all BA signs have standard layouts. The header includes the overall location name or location description for the bus boarding area and will change at different sites. The footer information does not vary.
- Boarding area map artwork is approximately 7 3/4" x 6 7/8", centered horizontally and vertically in white area below the header. North is at the top of the diagram. Map graphics vary with location.
- Boarding area maps include the facility or location identified in the header and the area immediately around the facility or location.
- Information shown on the maps includes the transit modes at the location, bus boarding areas (with route numbers), drop-off locations, entrances, and accessibility information like ramps and elevators. Maps also include streets and parking facilities. Map graphics vary with location.
- Typically, the map graphics on the ID, MN, and BA signs at a given interagency location or facility shall use the same Illustrator base map. Sign type-specific layers shall be added to each base map file as needed to meet the specific content requirements of each sign type.
- New BA graphics shall be developed using existing examples as precedents for layout, color, and content. For each transit facility or location, the development of the base map graphics for sign type BA must be coordinated with the map graphics for MN and ID signs as required.
- Typography and symbol sizes and styles for new BA signs shall match typography and symbols on existing BA signs.
- Items on the maps are consistently colored. Color usage shall be as per the map color palette shown in Section A2 and as per the existing BA maps.
- Street name and building label typography on the maps should be aligned and organized as much as possible. Typography and symbol sizes and styles for new BA signs shall match typography and symbols on existing BA signs.
- Below the map, directional information to bus boarding areas and interagency destinations is provided. Included are the bus boarding area symbols and associated bus route numbers. Route descriptions or names are typically not shown but may be provided if required for clarity. BA directional information will vary with location.

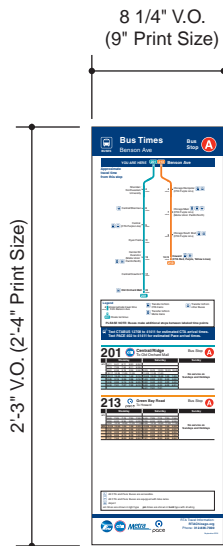
SECTION C3 Boarding Area & Bus Times Products

Bus Times Graphic Sign Type BT

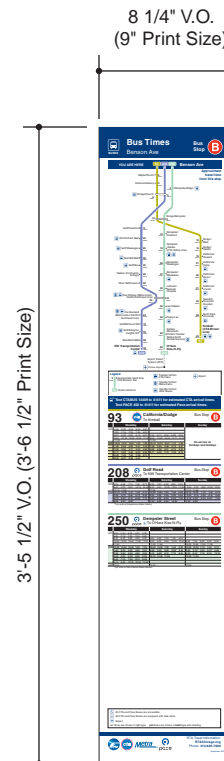
General Information



1 Elevation - Sign Type BT-0
Scale: 1" = 1'-0"



2 Elevation - Sign Type BT-1
Scale: 1" = 1'-0"



3 Elevation - Sign Type BT-2
Scale: 1" = 1'-0"

Associated Sign Cabinet Information:

Sign type BT is mounted using a type CPN sign cabinet.
See page C3.10 for additional information.

Description

General

Sign type BT provides bus schedule information and schematic diagrams of bus routes at bus stops. Typically, scheduled bus times should be used on information products. When headway time is less than 15 minutes, the RTA may select to show headway intervals. Sign type BT content will vary with location. See page C3.9 for Design and Layout Notes.

1 Bus Times Graphic

Sign type BT graphics shall be digitally printed at high resolution using UV-resistant inks directly onto a substrate to be specified by the RTA. The graphics shown are for reference only.

Final content for each sign type BT shall vary with location. Typical content may include, but shall not be limited to, a schematic representation of the applicable bus routes showing route numbers, stops, estimated travel times, and bus schedules for each bus route. Digital art for sign type BT may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required site-specific graphics using existing sign type BT signs as precedents for content, layout, and color. Bus schedule information shall

be provided by the RTA.

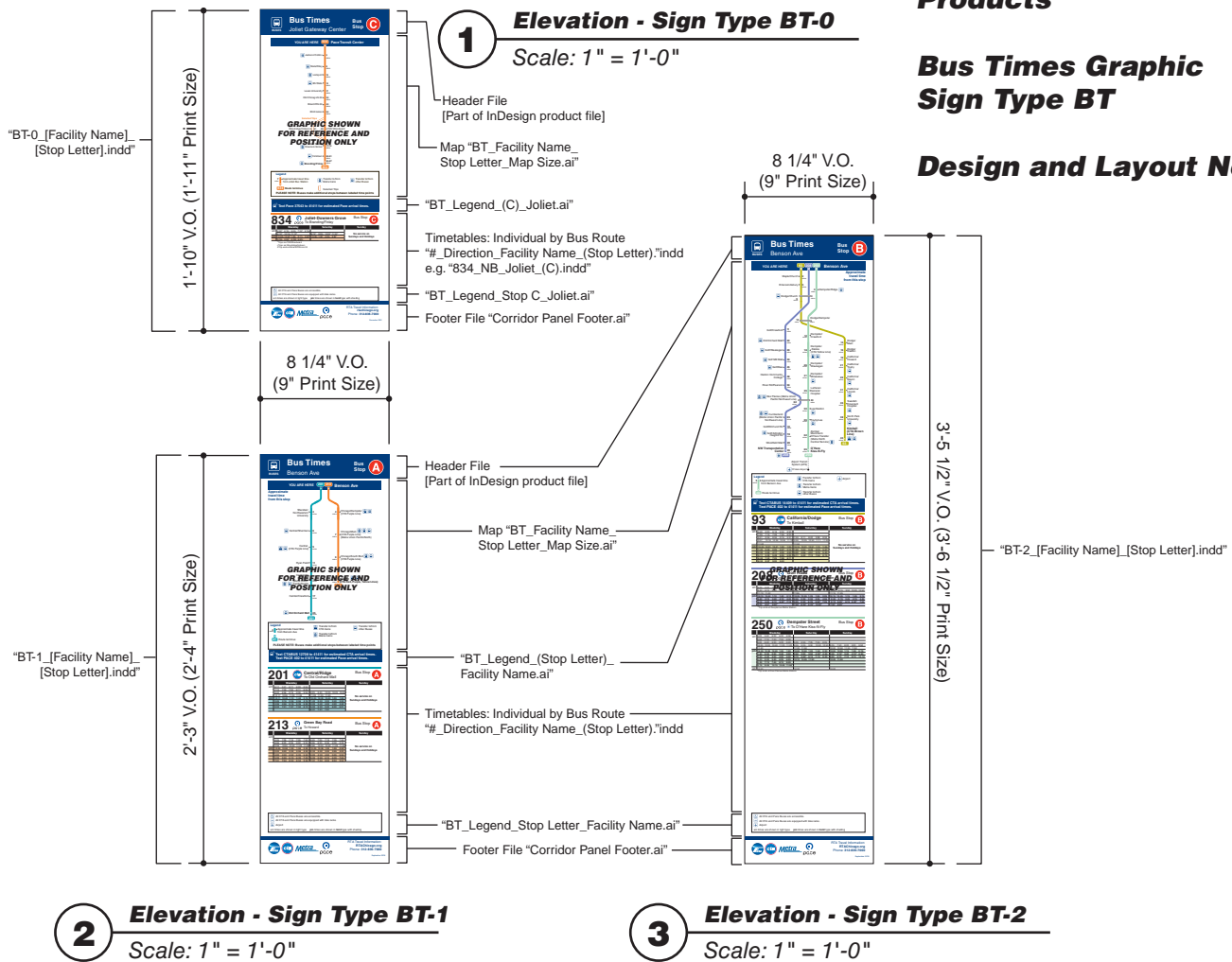
Sign type BT shows bus routes as schematic lines that originate from a single location. The route diagram is not to scale. Examples of existing sign type BT signs, digital template files for sign type BT graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new sign type BT graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) sizes for sign types BT-0, BT-1 and BT-2 are shown. Coordinate the BT-0, BT-1 and the BT-2 graphics and the overall panel sizes with the sign cabinets.

SECTION C3 Boarding Area & Bus Times Products

Bus Times Graphic Sign Type BT

Design and Layout Notes



Description

General Design and Layout Information – BT Signs

- Each sign type BT typically includes separate file components that are linked into a single, master product file using Adobe InDesign software.
- Header and footers for all BT signs have standard layouts. The header includes the overall location name or location description for the bus boarding area and the boarding area letter symbol. The header content will change at different sites. The footer information does not vary.
- A blue band below the header establishes the origin point for the bus route diagram. The bus route numbers are listed in the band, in order. Each route is assigned a color. See Section A2 for a listing and order of the colors to be used for bus routes. When multiple bus routes are shown on one BT sign, use contrasting colors for the routes.

Routes are presented schematically using line diagrams. The route diagrams are not to scale, and show bus routes as lines.

- Time point stops, approximate travel times, and transfer locations/shared stops are indicated along the schematic route lines. Transfer locations are identified using symbols. Route termini are also indicated.
- Information on CTA and Pace bus tracker services is located in a band below the bus route diagram.
- Bus timetables are shown below the route diagram and the bus tracker band. The timetables indicate departure times from the boarding area at the BT location.
- When developing art for BT signs, schedule information shall be provided by the RTA in XML format. Bus timetables are individual InDesign files that are linked into the BT master file. Import the schedule information into formatted InDesign timetable files

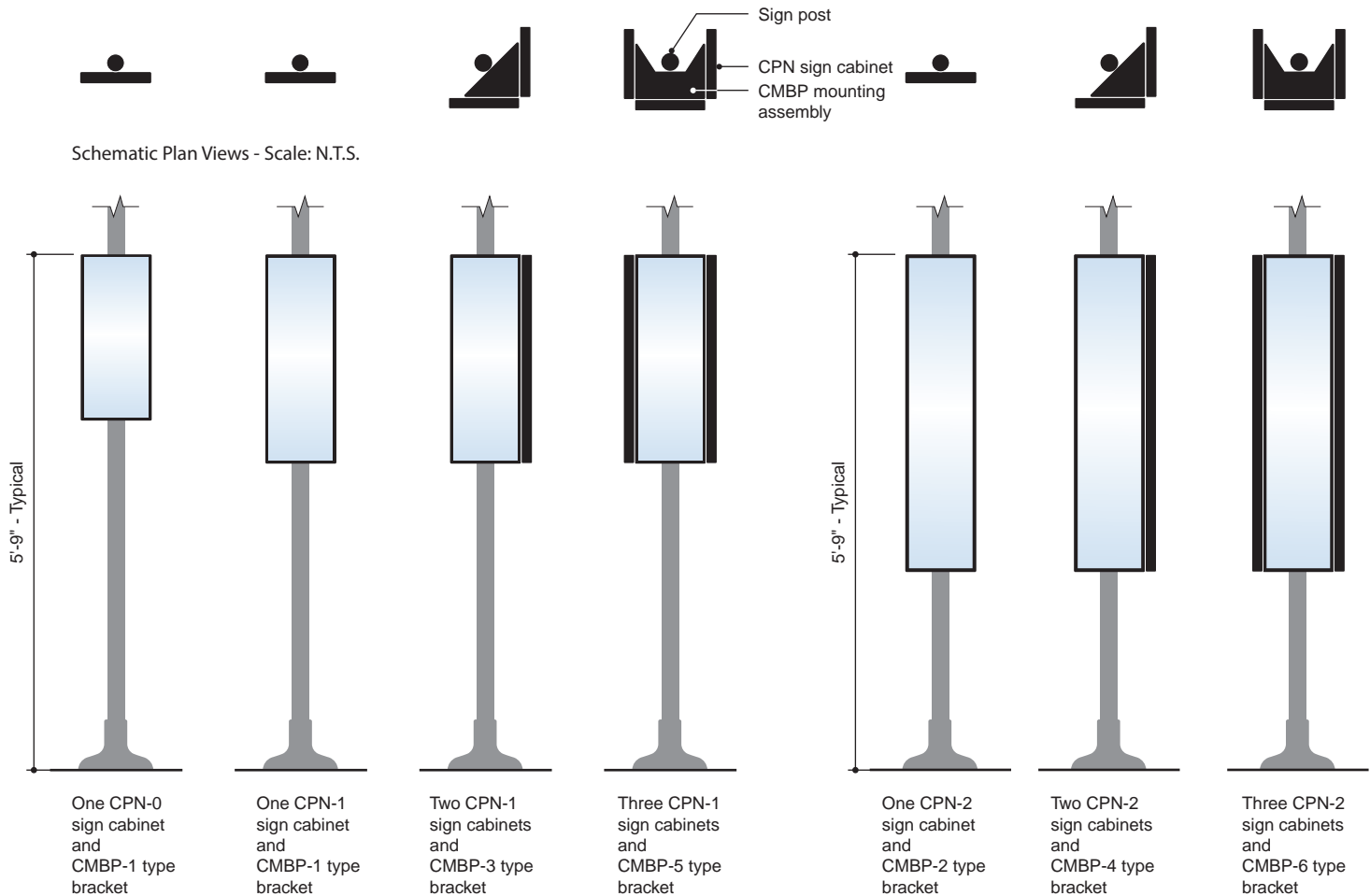
provided by the RTA.

- Timetables are headed and separated by color bands that correspond to the colors used for the bus routes shown on the route diagram. Below the color bands are the bus route numbers, the service logo, the route name and description, and the boarding area. On the timetables, AM bus times are shown in Roman, PM bus times are shown in Bold. The PM bus times also have a shaded background the using a 30% tint of the bus route color.
- A key with additional information is placed at the bottom of the BT sign panel, above the footer.
- New BT graphics shall be developed using existing examples as precedents for layout, color, and content. Typography and symbol sizes and styles for new BT signs shall match typography and symbols on existing BT signs.



SECTION C3 Boarding Area & Bus Times Products

CPN Sign Cabinets Mounting Configuration



1

Schematic Elevation - CPN Sign Cabinet and CMBP Type Bracket Configurations

Scale: N.T.S.

Associated Mounting Hardware Information:

The CMBP sign bracket is used to support CPN sign cabinets. See page C3.12 for information on the CMBP type brackets. See page C3.11 for information on CPN sign cabinets.

Associated Information Graphics:

The following graphic products are used with the CPN sign cabinet: Sign Type BA-0, BA-1 and BA-2 - See page C3.6 Sign Type BT-0, BT-1 and BT-2 - See page C3.8

Description

General

CMBP type brackets are used to mount CPN sign cabinets to new or existing sign posts or similar existing structures. CMBP brackets can include custom fabricated components.

CPN series sign cabinets are fabricated from

aluminum and are used to display sign type BA and BT graphics. When more than one CPN series cabinet is used at one location, the size of all the cabinets at the location shall match.



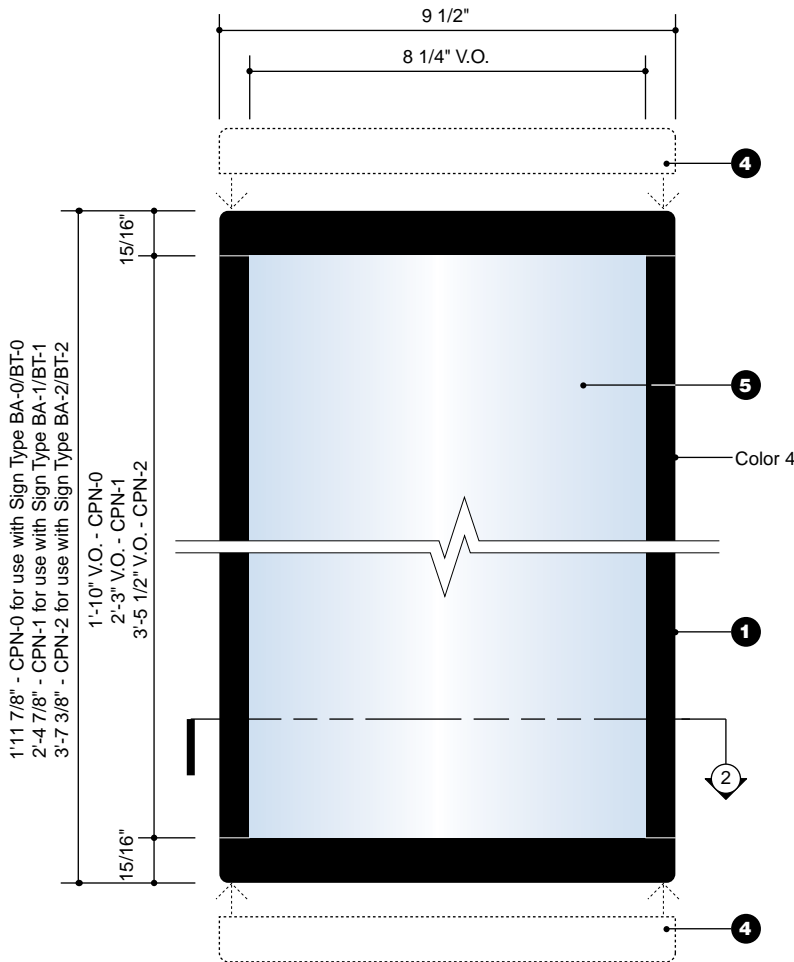
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Standards Manual

Date: 08.29.14
Revised: 11.07.19
02.10.22

Section C3
C3.10

SECTION C3 Boarding Area & Bus Times Products

CPN Sign Cabinet



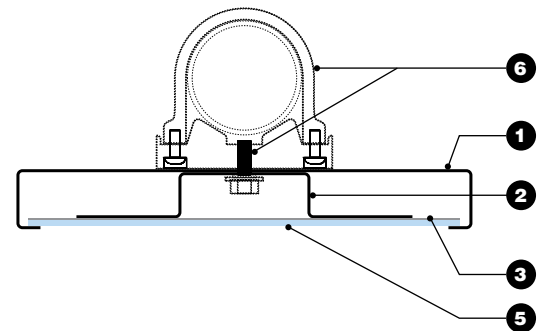
1

Elevation - CPN Sign Cabinet

Scale: NTS

Associated Mounting Hardware Information:

The CMBP type bracket is used to support CPN sign cabinets. See page C3.12 for information on the CMBP type brackets. See page C3.10 for more information on CPN sign cabinets.



2

Section - CPN Sign Cabinet

Scale: NTS

Associated Information Graphics:

The following graphic products are used with the CPN sign cabinet: Sign Type BA-0, BA-1 and BA-2 - See page C3.6 Sign Type BA-0, BT-1 and BT-2 - See page C3.8

Description

General

CPN series sign cabinets are fabricated from aluminum and are used to display sign type BA and BT graphics. CPN sign cabinets mount to sign posts using CMBP type brackets.

1 Aluminum Sign Cabinet

The CPN sign cabinet shall be fabricated aluminum with an exterior grade textured matte polyurethane powder coat finish over a 2-part epoxy undercoat. The cabinet shall be very durable and vandal resistant. Provide mounting holes as required to coordinate with the CMBP type bracket.

2 Internal Framing

Provide internal framing and bracing as needed for the cabinet to be rigid and structurally sound and to safely, securely, and properly support and

mount the cabinet. Provide framing to keep the graphics inside the cabinet flat and properly positioned. Provide access to the back of the cabinet and the cabinet mounting hardware.

3 Graphics

Graphic inserts for CPN cabinets shall be digitally printed at high resolution using UV-resistant inks directly onto a substrate to be specified by the RTA. The graphics shall be easily removable for maintenance.

4 Access to the CPN Interior

The top and bottom sections of the cabinet shall be removable to provide access to the interior of the cabinet for maintenance and to change graphics. The openings in the cabinet must be weather tight when closed. The removable sections must be secured to the cabinet with

vandal-resistant stainless steel hardware. The hardware shall have retaining washers, or similar, so that the hardware can not be lost when the section is removed. No hardware shall be visible on the CPN face and all hardware and fasteners must be suitable for use in exterior locations.

5 Polycarbonate Window

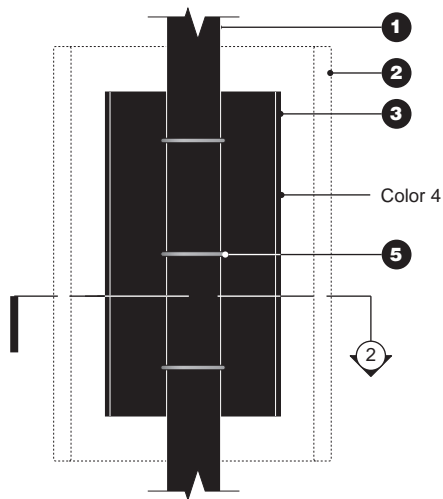
Provide a precisely cut opening in the face of the CPN cabinet. The opening shall be backed up by a clear, scratch resistant polycarbonate window. The mounting for the polycarbonate shall allow the polycarbonate to be easily removed and replaced for maintenance.

6 Mounting Hardware

Coordinate with the CMBP type bracket to provide all required mounting hardware.

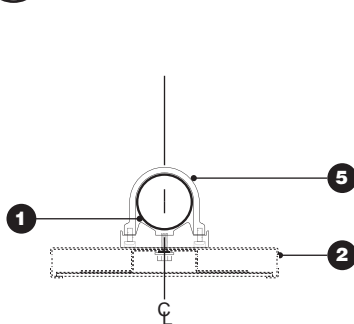
SECTION C3 Boarding Area & Bus Times Products

CMBP Mounting Assembly

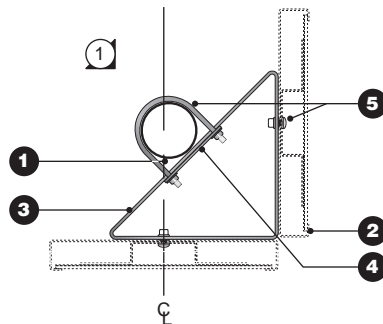


1 Elevation - CMBP Type Bracket

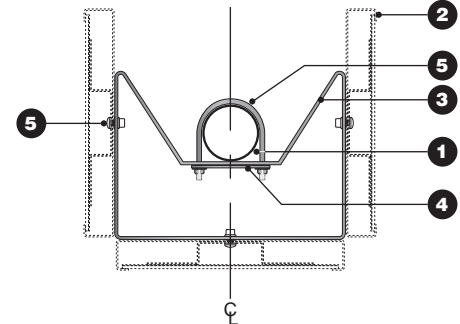
Scale: N.T.S.



CMBP-1 and CMBP-2



CMBP-3 and CMBP-4



CMBP-5 and CMBP-6

2 Sections - CMBP with CPN Cabinets

Scale: 1 1/2" = 1'-0"

Associated Sign Cabinet Information:

The CMBP type bracket is used to support CPN sign cabinets. See page C3.11 for information on the CPN sign cabinets. See the Message Schedule for information on the quantity and type of CPN sign cabinets at each sign location.

Description

General

CPN cabinets are mounted using CMBP mounting assemblies. CMBP-1 and CMBP-2 are typically a specialty mounting bracket supplied by the CPN cabinet manufacturer. CMBP-3, CMBP-4, CMBP-5, and CMBP-6 are custom fabricated aluminum support boxes that are typically mounted using stainless steel u-bolts. CMBP type brackets are typically mounted to new SRSP sign posts. The entire CMBP assembly shall be vandal resistant.

1 Sign Post

Verify if a new SRSP sign post or if an existing sign post is to be used. For new sign posts, see Section C4 for additional information. For existing sign posts or other existing structures, verify on site the existing sign post/structure size, configuration, and materials. Verify that the existing sign post or structure can safely, properly, and securely support the CMBP/CPN assembly.

2 CPN Sign Cabinet

CPN sign cabinets shall be safely, securely, and properly mounted using concealed, heavy duty,

exterior grade stainless steel hardware. The hardware shall allow the CPN cabinets to be removed for repairs.

3 Fabricated Aluminum Support Box

CMBP-3, CMBP-4, CMBP-5, and CMBP-6 are custom fabricated, painted aluminum support boxes. Coordinate the size and configuration of the support box with the size and quantity of CPN sign cabinets to be mounted, with the CPN cabinet mounting hardware, and with the sign post that shall support the entire assembly. The aluminum support box shall be configured and fabricated to safely, securely, and properly support two or three CPN sign cabinets. The support box shall be closed on the top and bottom and shall have a painted finish. When the CPN cabinets are in position, the interior of the support box shall not be visible. The interior of the support box shall be accessed by removing the CPN cabinets. Provide weep holes as required.

4 Framing and Bracing

Provide internal framing and bracing as needed for the CMBP assembly to be durable, rigid, and

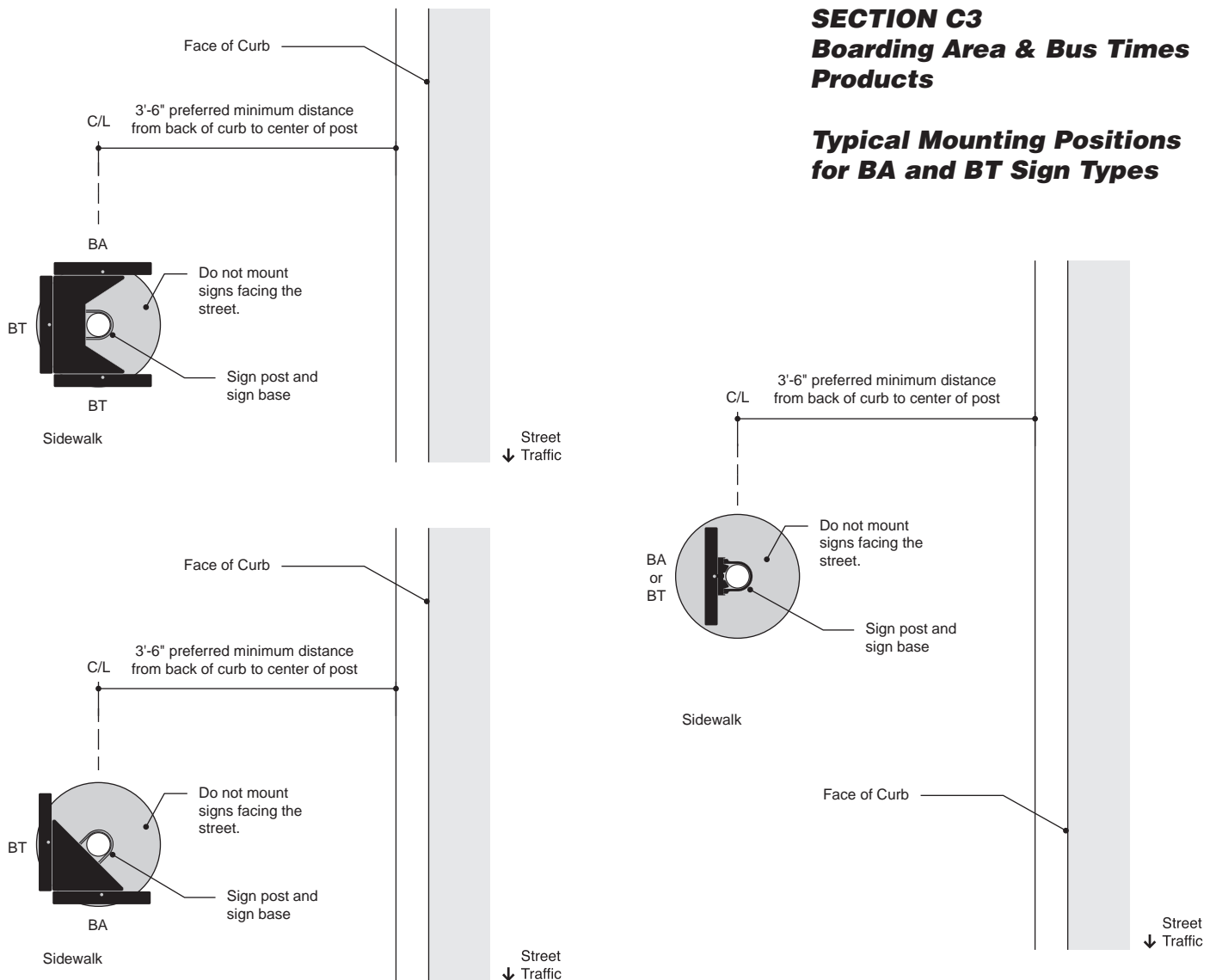
structurally sound and for it to safely, properly, and securely support the CPN sign cabinets which shall be mounted to it. Provide stainless steel reinforcement plates inside the CPN cabinets or CMBP support boxes at all mounting bolts.

5 Mounting Bolts/Mounting hardware

Provide all mounting hardware and materials as needed to safely, properly, and securely assemble and mount the complete CMBP/CPN assembly. Coordinate the CMBP mounting hardware with the sign post at each installation location. At locations where the assembly is mounted to an SRSP sign post, CMBP-1 and CMBP-2 are typically a specialty mounting bracket supplied by the CPN cabinet manufacturer, and CMBP-3, CMBP-4, CMBP-5, and CMBP-6 support boxes are typically mounted using standard stainless steel u-bolts. At locations where the assembly is not mounted to an SRSP sign post, determine the type of mounting hardware required. All mounting hardware and components shall be heavy duty, vandal-resistant and suitable for exterior use.

SECTION C3 Boarding Area & Bus Times Products

Typical Mounting Positions for BA and BT Sign Types



1 Typical Mounting Position for BA and BT Signs: Locations With More Than One Sign

Scale: NTS

2 Typical Mounting Position for BA and BT Signs: Locations With One BA or BT Sign

Scale: NTS

Description

Typical Mounting Positions for BA and BT Sign Types

Locations for BA and BT sign types must be determined on a case-by-case basis.

When establishing BA and BT locations, factors including, but not limited to, the existing conditions, the location of the sign post the BA and BT signs will be mounted to, and the information to be displayed on the signs must be carefully considered. BA and BT signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space

around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign.

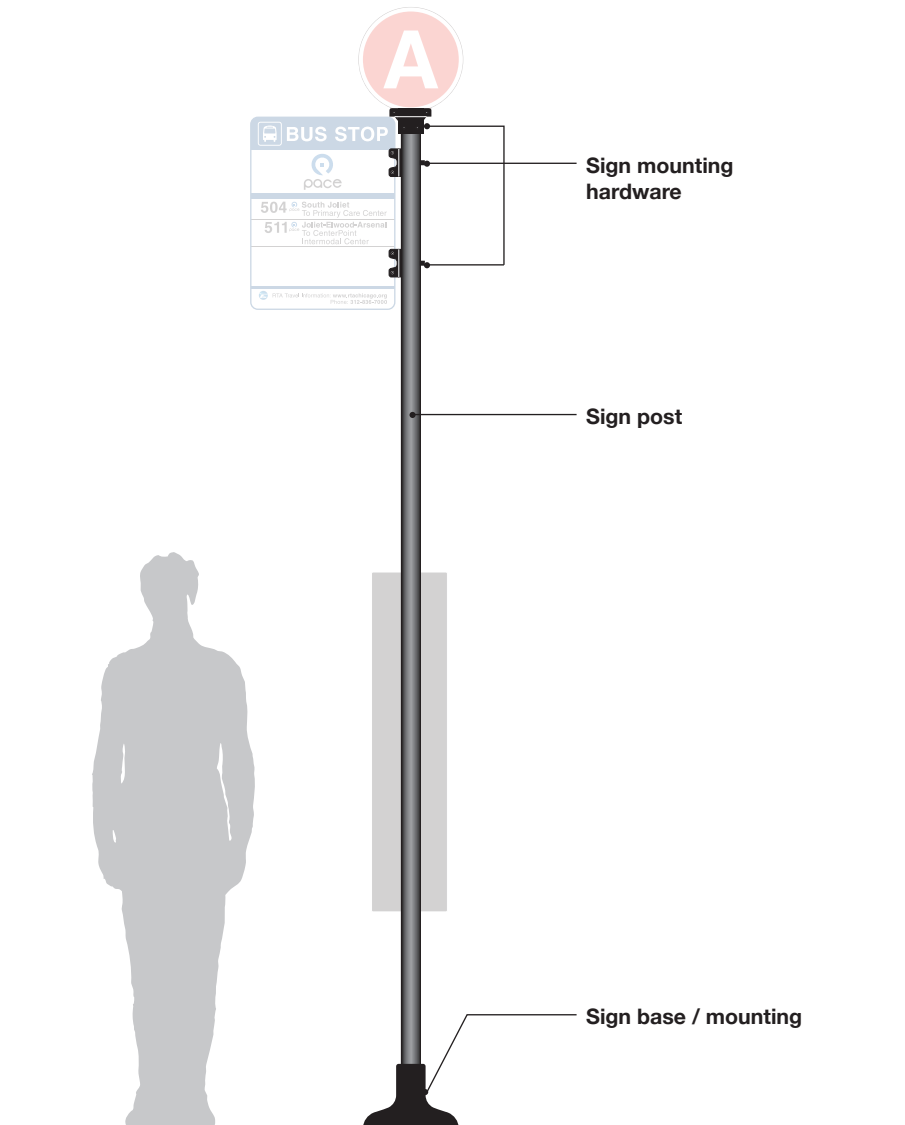
Generally, BT signs shall be mounted facing the sidewalk, parallel to the curb. When BA and BT signs appear together, the BA signs should be mounted perpendicular to the curb. At locations

with a large number of buses, two BT signs may be required. Do not mount signs facing the street or on the street side of sign posts.

Each potential location should be carefully examined before signs are specified to confirm what types of signs would be most appropriate and to confirm that there is an appropriate place for each of the signs to be safely installed.

SECTION C4 Posts & Mounting Hardware

Section Introduction



Description

General

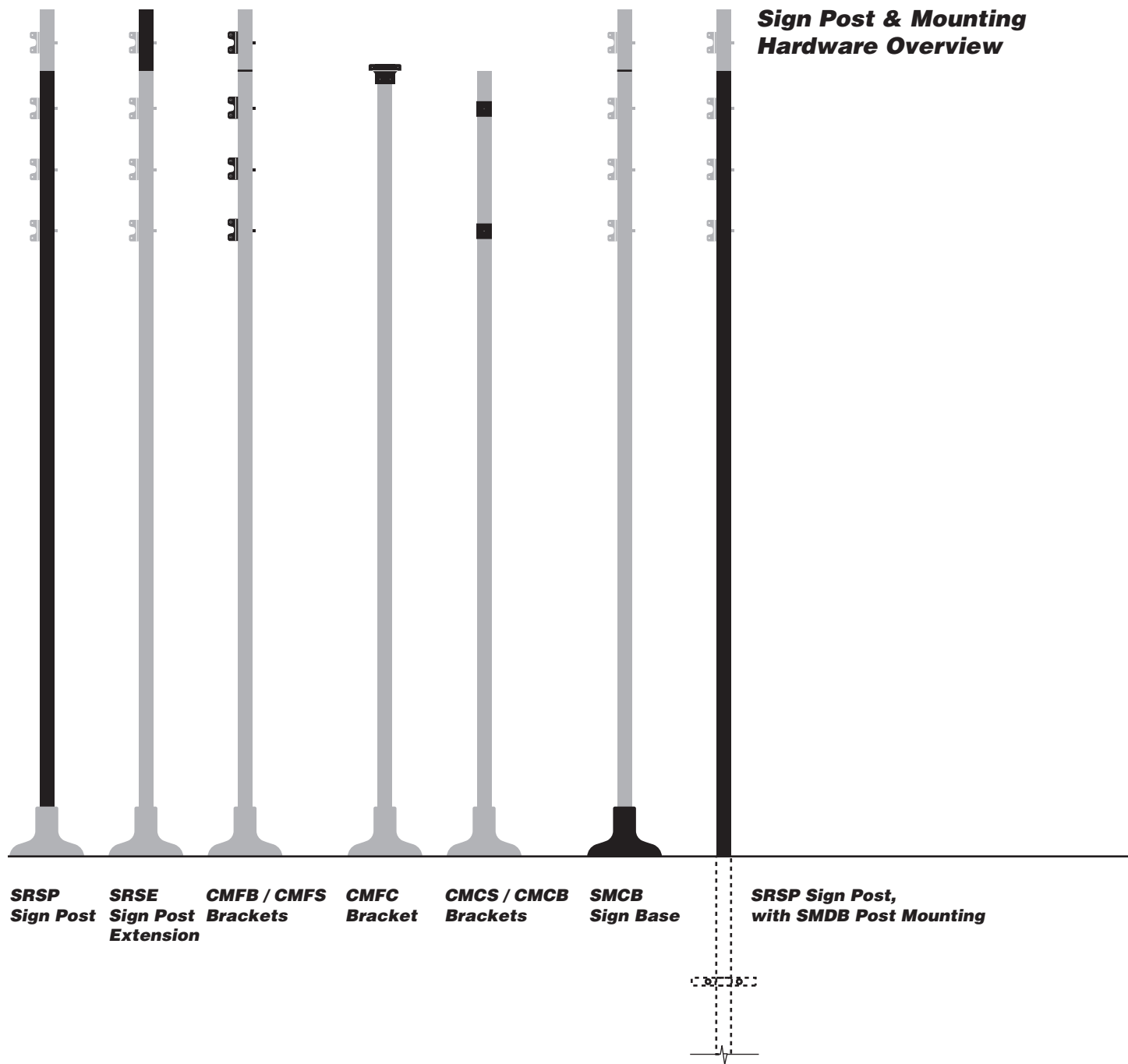
Section C4 general reference.



SECTION C4

Posts & Mounting Hardware

Sign Post & Mounting Hardware Overview



SRSP Sign Post **SRSE Sign Post Extension** **CMFB / CMFS Brackets** **CMFC Bracket** **CMCS / CMCB Brackets** **SMCB Sign Base** **SRSP Sign Post, with SMDB Post Mounting**

Description

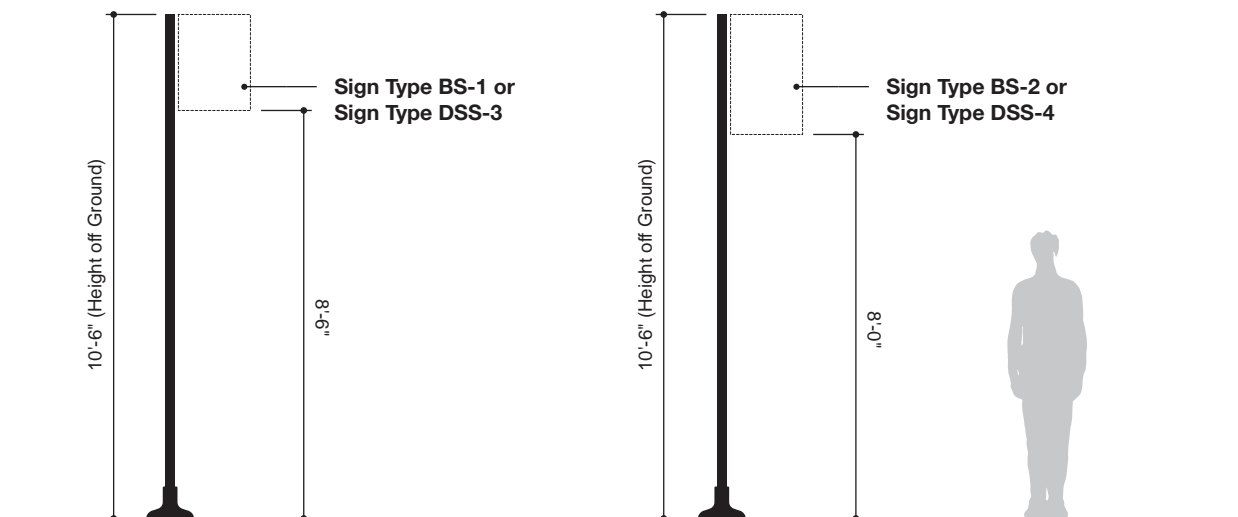
General

Sign posts and mounting hardware include: the SRSP sign post and SRSE post extension; CMFB, CMFC, CMFS, CMCS, and CMCB mounting brackets; and the SMCB sign base and SMDB (with SMRC riser clamp) post mounting.

Also included, but not shown above, are CMCC brackets, and CMWA and CMWB type mountings.

SECTION C4 Posts & Mounting Hardware

SRSP-2 Sign Post Mounting Heights



1 **Elevation - SRSP-2 Sign Post Mounting Heights (Post Mounted Using SMCB Sign Base)**
Scale: 1/4" = 1'-0"

Description

General

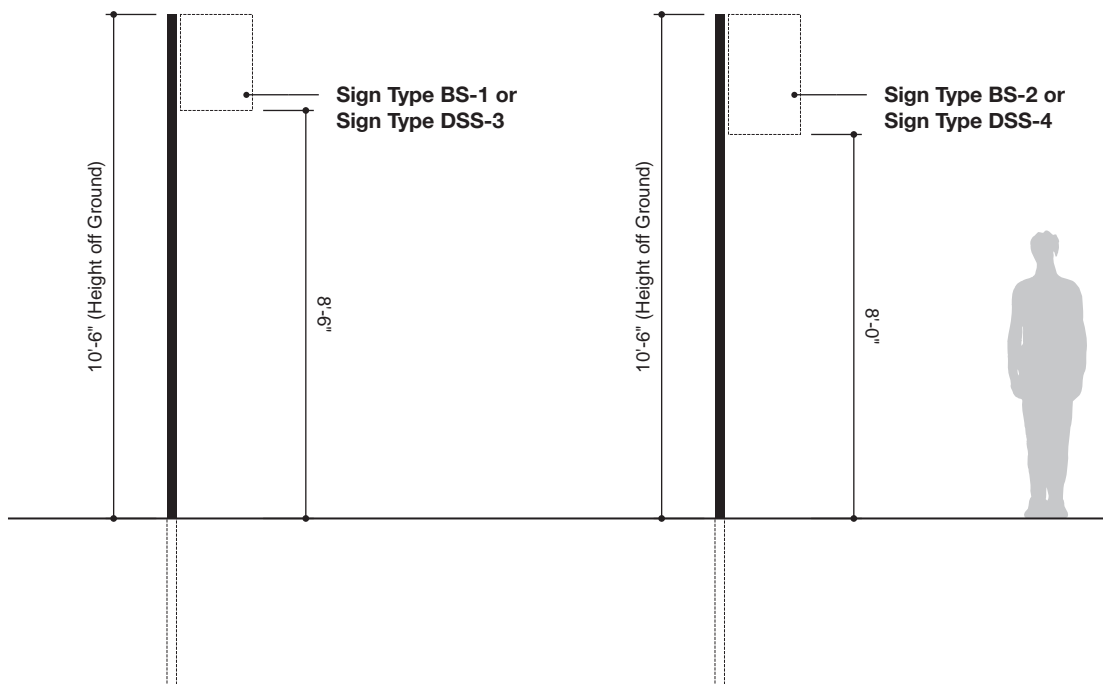
Sign Post type SRSP is fabricated from 2 3/8" O.D., 11 gauge, hot rolled, electrical resistance welded (ERW), low carbon steel mechanical tubing, ASTM A513, Type 1. The sign posts shall have an epoxy electrocoat base coat and a glossy black powder coat finish coat.

See page C4.5 for details regarding the size and location of the mounting holes in the SRSP-2 sign posts. SRSP-2 sign posts are typically mounted using SMCB sign bases.

See the Technical Specifications for additional information and requirements.

SECTION C4 Posts & Mounting Hardware

SRSP-5 Sign Post Mounting Heights



1 **Elevation - SRSP-5 Sign Post Mounting Heights (Post Mounted Using SMDB Post Mounting)**
Scale: 1/4" = 1'-0"

Description

General

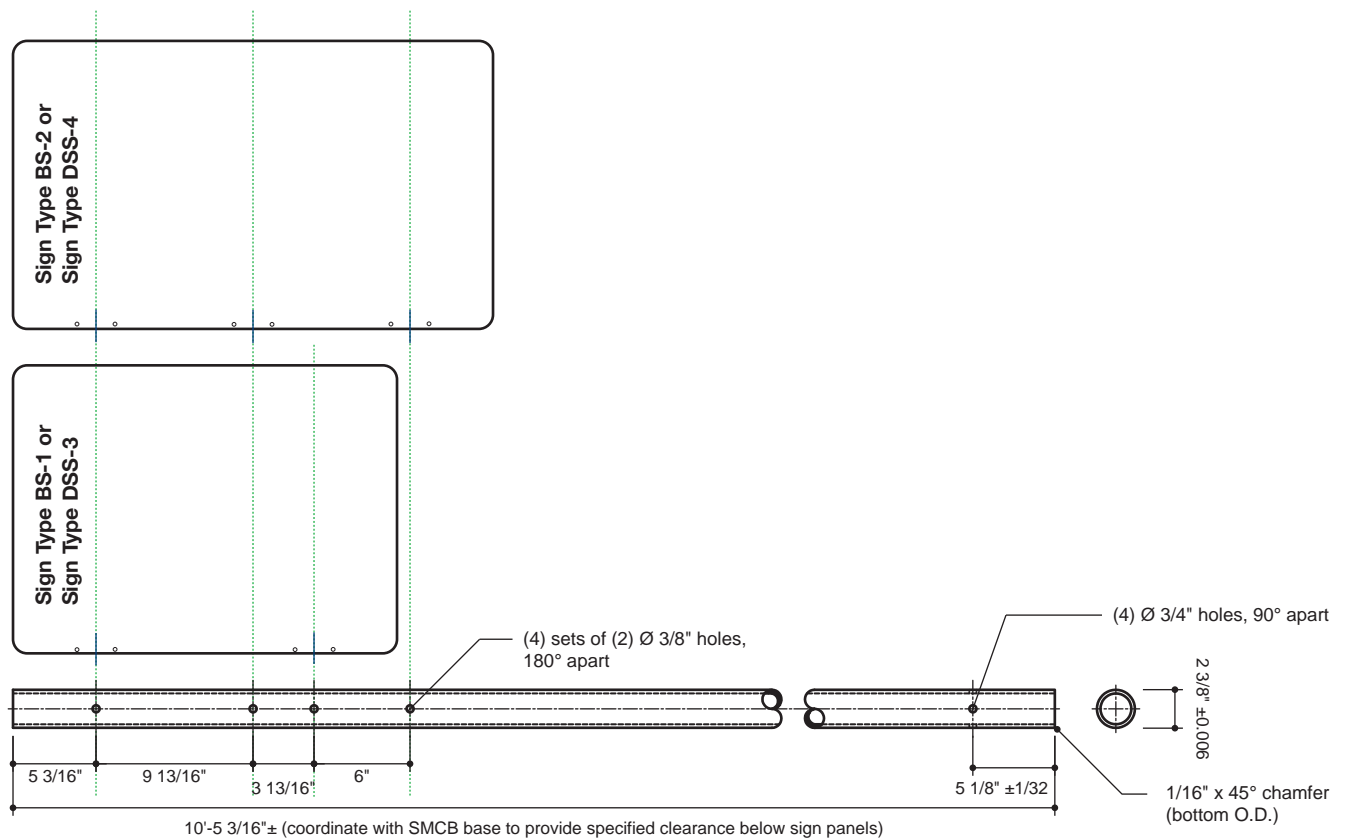
Sign Post type SRSP is fabricated from 2 3/8" O.D., 11 gauge, hot rolled, electrical resistance welded (ERW), low carbon steel mechanical tubing, ASTM A513, Type 1. The sign posts shall have an epoxy electrocoat base coat and a glossy black powder coat finish coat.

See page C4.6 for details regarding the size and location of the mounting holes in the SRSP-5 sign posts. SRSP-5 sign posts are typically mounted using the SMDB post mounting.

See the Technical Specifications for additional information and requirements.

SECTION C4 Posts & Mounting Hardware

SRSP-2 Sign Post Post Length and Mounting Hole Locations



1

Elevation - SRSP-2 Sign Post Length and Typical Hole Locations

Scale: 1" = 1'-0"

Description

General

SRSP-2 sign posts shall have holes pre-punched or pre-drilled. The post shall be epoxy electrocoated and powder coated after all holes have been punched or drilled. Typically,

the holes shall be placed as shown so that sign types BS and DSS can all be mounted using CMFB brackets without needing to drill additional holes in the post. Depending on the location and the signs to be mounted, addition-

al mounting holes may be specified.

See the Technical Specifications for additional information and requirements.



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Standards Manual

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04.17.19

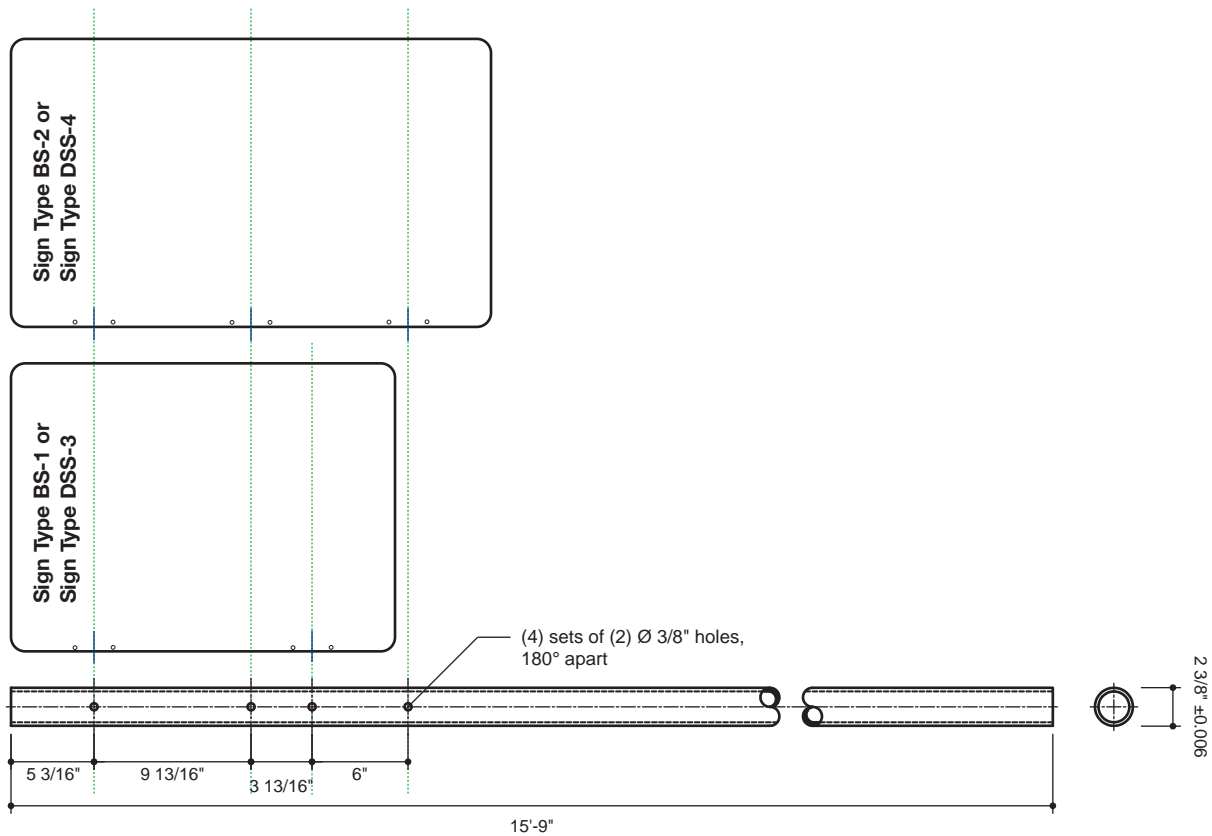
Section C4
C4.5

SECTION C4

Posts & Mounting Hardware

SRSP-5 Sign Post

Post Length and Mounting Hole Locations



1 Elevation - SRSP-5 Sign Post Length and Typical Hole Locations

Scale: 1" = 1'-0"

Description

General

SRSP-5 sign posts shall have holes pre-punched or pre-drilled. The post shall be epoxy electrocoated and powder coated after all holes have been punched or drilled. Typically,

the holes shall be placed as shown so that sign types BS and DSS can all be mounted using CMFB brackets without needing to drill additional holes in the post. Depending on the location and the signs to be mounted, addition-

al mounting holes may be specified. See the Technical Specifications for additional information and requirements.



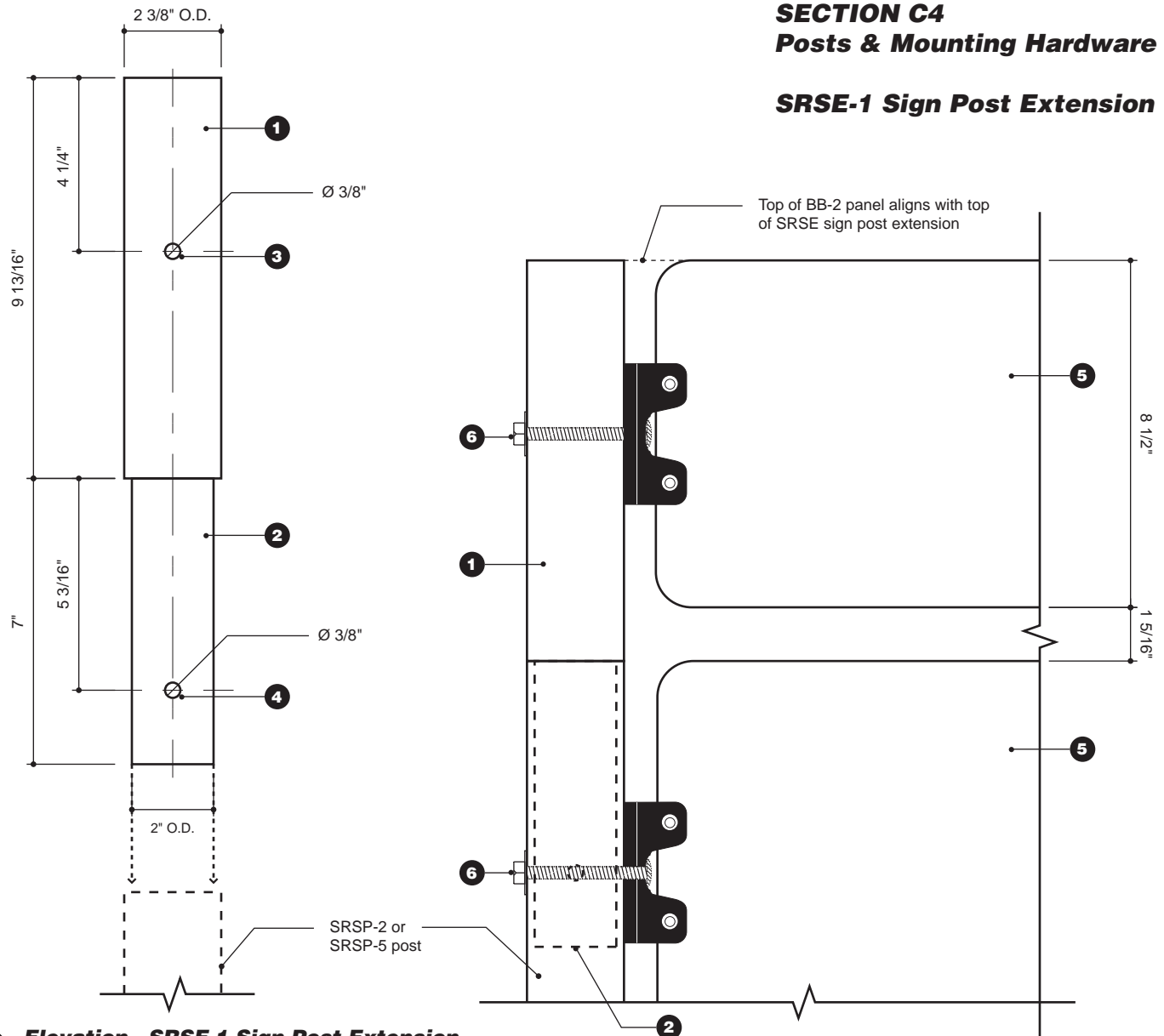
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Revised: 07.22.16,
04.17.19

**Section C4
C4.6**

SECTION C4 Posts & Mounting Hardware

SRSE-1 Sign Post Extension



1

Elevation - SRSE-1 Sign Post Extension

Scale: 3" = 1'-0"

Description

General

The SRSE-1 sign post extension is installed at the top of the SRSP-2 or SRSP-5 sign post to allow the mounting of the sign type BB-2 blade.

1 Sign Post Extension

2 3/8" O.D. sign post extension. Materials and finishes used on the extension shall match the materials and finishes used on the SRSP sign posts. The SRSE-1 extension shall precisely fit into the top of any SRSP sign post. The extension shall be securely bolted into position and shall safely, securely, and properly support sign panels and related mounting hardware.

2 Insert Stub

2" O.D. insert stub (verify stub O.D. with SRSP post I.D.). The insert stub shall be securely and precisely welded to the post extension. The stub and the post extension shall align precisely. The stub shall fit precisely into the end of any SRSP sign post. Materials and finishes used on the stub shall match the materials and finishes used on the SRSP sign posts.

3 Sign Mounting Bolt Holes

3/8" diameter sign mounting bolt holes. 2 holes at 180 degrees to accept sign mounting hardware. Sign mounting bolt holes shall align with one set of bolt holes in the insert stub.

4 Extension Mounting Bolt Holes

3/8" diameter bolt holes. 2 sets of 2 holes at 90 degrees. Align one set of holes with the 3/8" diameter sign mounting bolt holes.

5 Sign Panel

6 Sign Mounting Hardware

Bolts for sign mounting brackets secure extension in position.

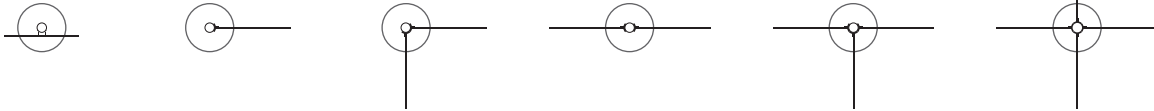
See the Technical Specifications for additional information and requirements.



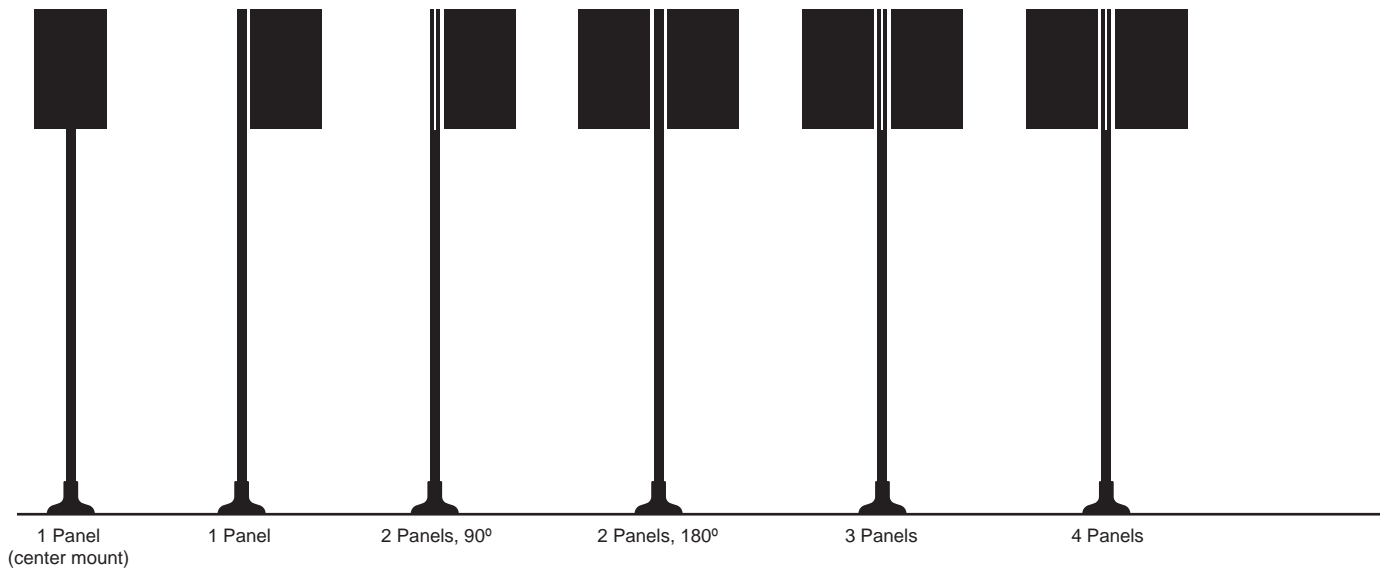
SECTION C4 Posts & Mounting Hardware

Possible Sign Panel Mounting Configurations

Plan Views



Elevations



1

Schematic Elevations - Possible Sign Panel Configurations on SRSP Sign Posts

Scale: NTS

Description

General

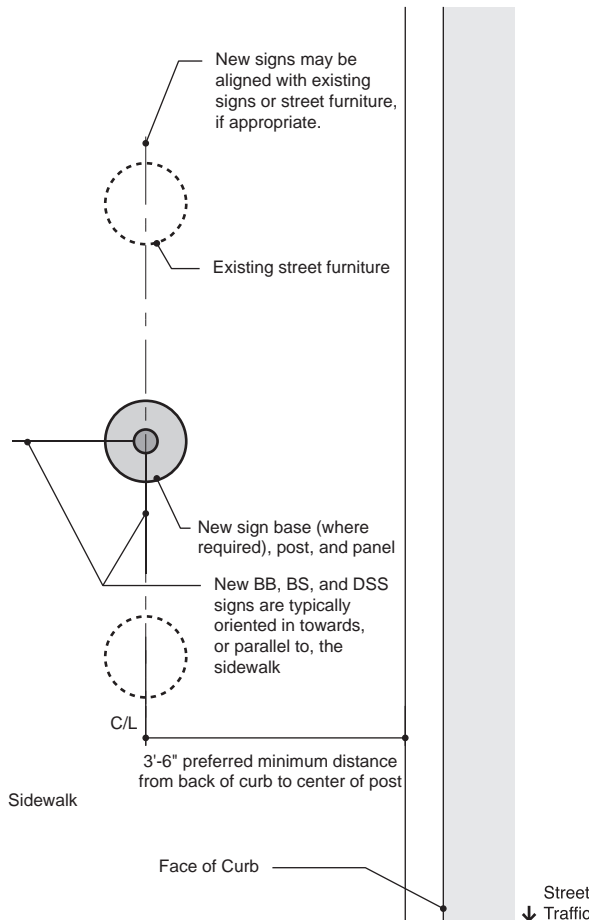
Shown are possible configurations for mounting signs to SRSP sign posts. Groups of sign panels may be mounted in up to four directions on a single post.

Signs shall be mounted so that consistent mounting heights are maintained for signs of the same type mounted to the same sign post.

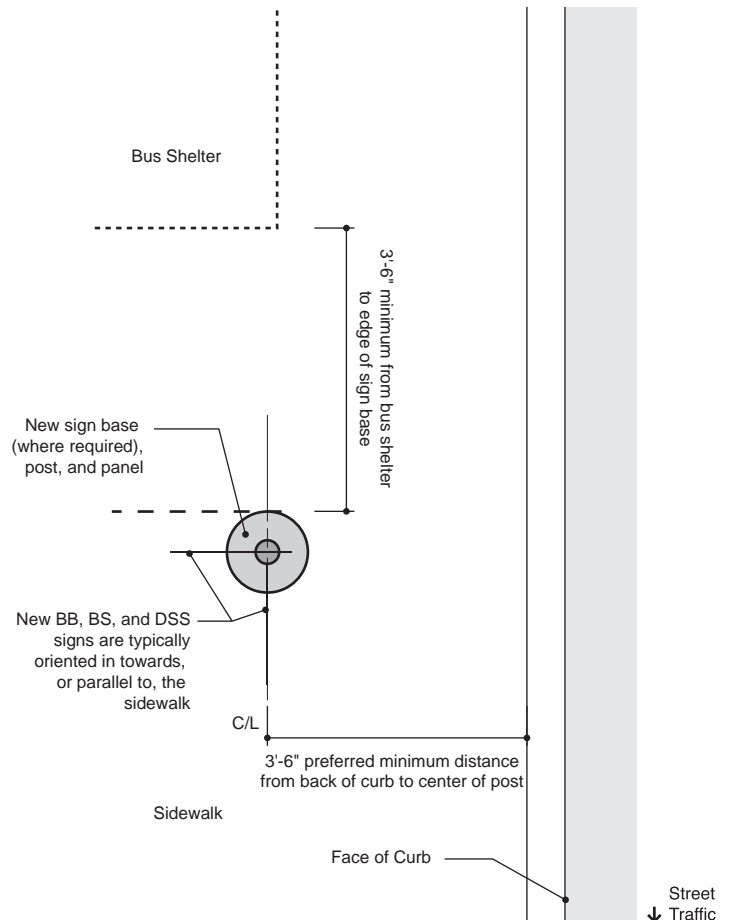
Where more than one sign panel is mounted to a post, the brackets shall be strap mounted, and the tops of the sign panels shall be aligned with each other.

SECTION C4 Posts & Mounting Hardware

Typical Locations for Signs and Posts



1 Typical Locations for Signs and Posts
Scale: NTS



2 Typical Locations for Signs and Posts
Scale: NTS

Description

Typical Locations for SRSP Sign Posts

Locations for SRSP sign posts must be determined on a case-by-case basis.

When establishing SRSP sign post locations, factors including, but not limited to, the existing conditions and the information included on the signs to be mounted to the SRSP sign posts must be carefully considered.

Generally, interagency signs must be visible to pedestrians but they must also be located so that they do not create situations where information that may be confusing or inappropriate is visible to motorists or cyclists. Signs

and sign posts must be located so that they do not block any traffic control signs or other traffic control devices. Signs must be placed so that they are not distracting or confusing to motorists or cyclists. Signs and sign posts must not create blind spots or any other visibility hazards for motorists, pedestrians, and cyclists.

Signs must be also positioned so that they are not hazardous to pedestrians. Signs should not be located in the middle of pedestrian walkways. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not

be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign.

Depending on the existing conditions, it may be appropriate to align new signs and sign posts with existing signs, streetlights, planters, or other existing items. Each potential location should be carefully examined before signs are specified to confirm what types of signs would be most appropriate and to confirm that there is an appropriate place for each of the signs to be safely installed.

SECTION C4 Posts & Mounting Hardware

CMFB Type Bracket



1

Elevation View - CMFB

Scale: NTS

Associated Sign Types:

The following sign types can be mounted using the CMFB type bracket:

Sign Type BB - See Section C2

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Description

General

The CMFB type bracket is CTA Item No. 2100361 or an equal custom cast aluminum bracket accepted by the RTA. The CMFB type bracket is bolt mounted to sign posts. See the Technical Specifications and page E4.1 of the Appendix for additional information.

The photo shown is for general reference only.

1 Sign Post

Verify if the location shall have a new sign post or if an existing sign post is to be used. For existing sign posts, verify on site the sign post size, height, configuration, and material. Verify if the existing sign post can properly accept the sign panel planned for the location and the required CMFB type brackets.

2 CMFB Bracket

The CMFB bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFB brackets shall be bolt mounted to sign posts. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts.

3 Aluminum Sign Panel

The CMFB type bracket securely flag mounts aluminum sign panels, including sign types BB-2, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFB

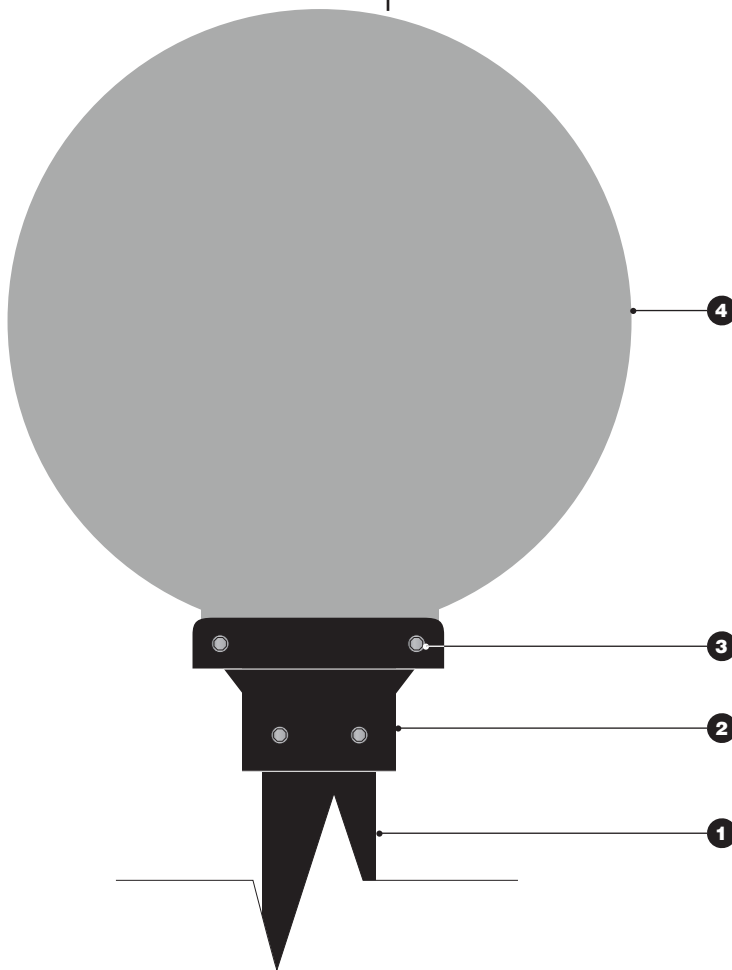
brackets at each sign location.

4 Mounting Bolts/Hardware

Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFB bracket and the bracket/aluminum sign panel assemblies to the sign post. The CMFB bracket shall be safely, properly, and securely bolt mounted to the sign post. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

SECTION C4 Posts & Mounting Hardware

CMFC Type Bracket



1 Elevation - CMFC

Scale: 3" = 1'-0"

Associated Sign Types:

The CMFC type mounting hardware is used with Sign Type BB-1 - See Section C2

Description

General

The CMFC type bracket is a standard type of aluminum sign mounting bracket used to mount sign type BB-1 to the tops of new SRSP sign posts.

1 SRSP Sign Post

Use CMFC hardware with new SRSP sign posts.

2 CMFC Bracket

The CMFC bracket shall be a standard aluminum sign bracket suitable for safely, securely, and properly mounting sign type BB-1 to the top of an SRSP sign post. The CMFC bracket shall be sized to fit precisely over the top of the SRSP sign post. The bracket shall have a glossy black powder coat finish.

3 Stainless Steel Set Screws

The sign bracket shall be safely, securely, and properly attached to the top of the SRSP sign post by stainless steel allen set screws. Stainless steel allen set screws shall also be used to safely and securely hold the sign panel in position.

4 Aluminum Sign Panel

The CMFC type mounting brackets shall safely, securely, and properly mount sign type BB-1 aluminum sign panels to SRSP sign posts.

SECTION C4 Posts & Mounting Hardware

CMFS Type Bracket



1 **Elevation View - CMFS**
Scale: NTS

Associated Sign Types:

The following sign types can be mounted using the CMFS type bracket:

Sign Type BB - See Section C2

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Description

General

The CMFS type bracket is CTA Item No. 2100361 or an equal custom cast aluminum bracket accepted by the RTA. The CMFS type bracket is strap mounted to sign posts. See the Technical Specifications and page E4.1 of the Appendix for additional information.

The photo shown is for general reference only.

1 Sign Post

Verify if the location shall have a new sign post or if an existing sign post or other existing structure is to be used. For existing sign posts and structures, verify on site the sign post or structure size, height, configuration, and material. Verify if the existing sign post or other existing structure can properly accept the sign panels planned for the location and the required CMFS type brackets.

2 CMFS Bracket

The CMFS type bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFS brackets shall be mounted using stainless steel straps. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts and structures.

3 Aluminum Sign Panel

The CMFS type bracket securely flag mounts aluminum sign panels including, sign types BB-2, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post or structure that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFS brackets at

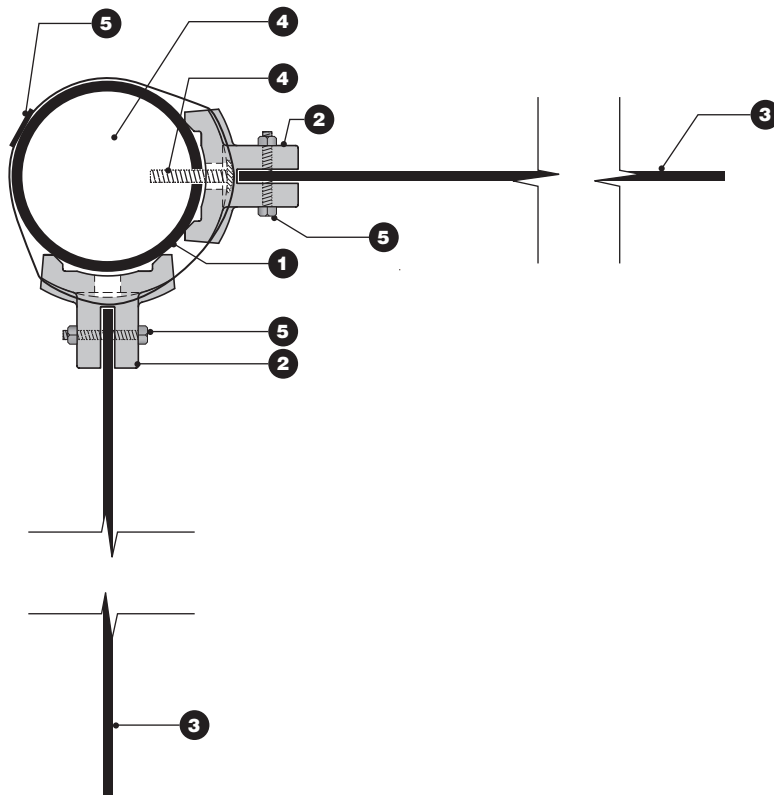
each sign location.

4 Mounting Bolts/Hardware

Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFS bracket and the bracket/aluminum sign panel assemblies to the sign post or structure. The CMFS bracket shall be safely, properly, and securely strap mounted to the sign post or structure using heavy duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

SECTION C4 Posts & Mounting Hardware

CMFS Type Bracket on SRSP Post



1 Plan View - CMFS
Scale: NTS

Associated Sign Types:

The following sign types can be mounted using the CMFS type bracket:

Sign Type BB - See Section C2

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Description

General

The CMFS type bracket is CTA Item No. 2100361 or an equal custom cast aluminum bracket accepted by the RTA. The CMFS type bracket is strap mounted to sign posts. See the Technical Specifications and page E1.2 of the Appendix for additional information.

1 SRSP Sign Post

2 CMFS Bracket

The CMFS type bracket shall be CTA Item No. 2100361, or an equal custom cast aluminum bracket accepted by the RTA. The CMFS brackets shall be mounted using stainless steel straps. The brackets shall safely, securely, and properly flag mount aluminum sign panels to a variety of new and existing sign posts and structures. The mounting hardware shall allow

for removal of the sign panels for maintenance, repairs, and updates.

3 Aluminum Sign Panel

The CMFS type bracket securely flag mounts aluminum sign panels including, sign types BB-2, BS and DSS. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMFS brackets at each sign location.

4 Positioning Bolt

At locations where CMFS brackets are used to mount multiple signs to a single SRSP sign post, provide stainless steel positioning bolts. The positioning bolts pass through the CMFS

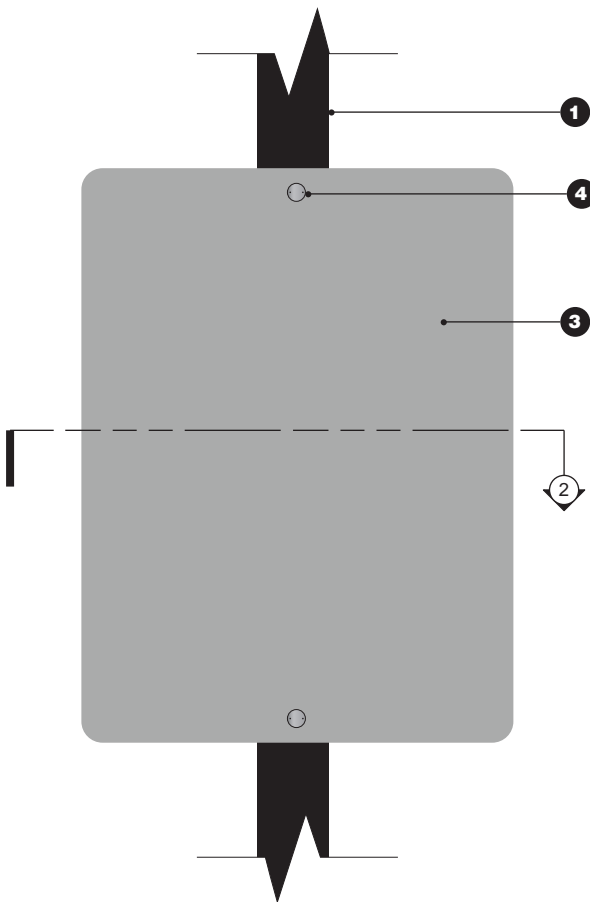
bracket into one of the predrilled holes in the SRSP post and are held in place by the stainless steel mounting straps. The bolts prevent the sign panels from spinning on the post.

5 Mounting Hardware

Provide all mounting hardware and materials as needed to safely, properly, and securely mount the aluminum sign panels to the CMFS bracket and the bracket/aluminum sign panel assemblies to the sign post. The CMFS bracket shall be safely, properly, and securely strap mounted to the sign post using heavy duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

SECTION C4 Posts & Mounting Hardware

CMCS Type Bracket



1 Elevation - CMCS
Scale: 1 1/2" = 1'-0"

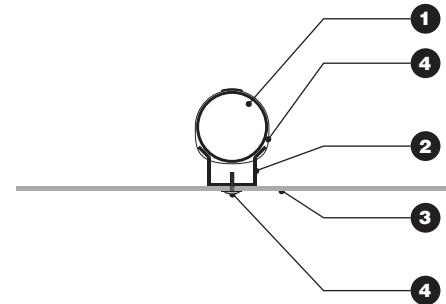
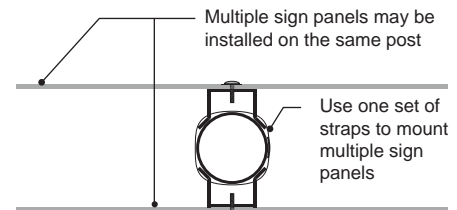
Associated Sign Types:

The following sign types can be mounted using the CMCS type bracket:

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1



2 Section - CMCS
Scale: 1 1/2" = 1'-0"

Description

General

The CMCS type bracket is a standard type of stainless steel sign mounting bracket. Mounting type CMCS is strap mounted to sign posts.

1 Sign Post

Verify if the location shall have a new sign post or if an existing sign post or other existing structure is to be used. For existing sign posts and structures, verify on site the sign post or structure size, height, configuration, and material. Verify if the existing sign post or other existing structure can properly accept the sign panels planned for the location and the required CMCS type brackets.

2 CMCS Bracket

The CMCS bracket shall be a standard

stainless steel sign bracket suitable for mounting signs centered on sign posts and other structures. The bracket shall securely mount aluminum sign panels to a variety of new and existing sign posts and other structures.

3 Aluminum Sign Panel

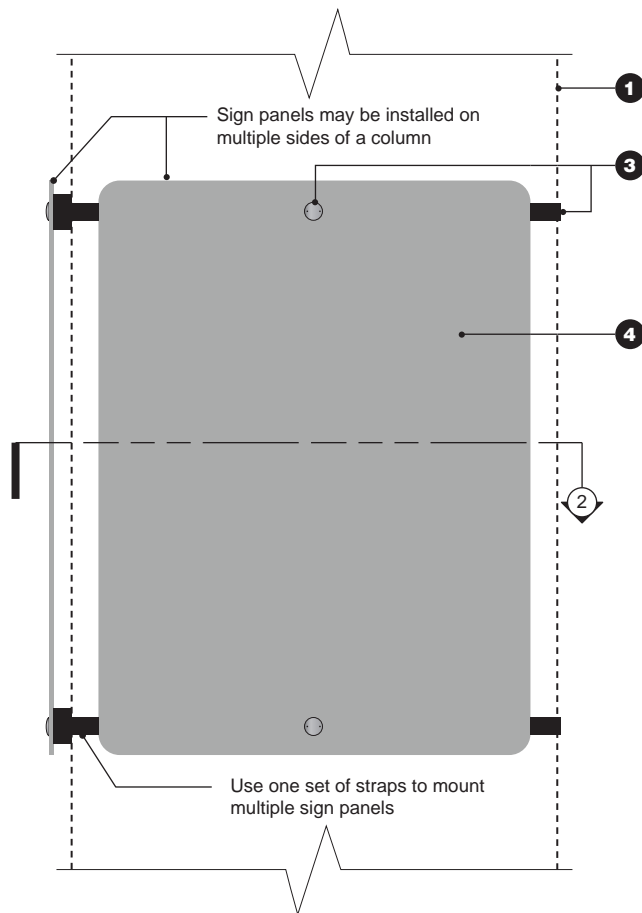
The CMCS bracket securely mounts aluminum sign panels including, but not limited to, sign types BS, DSS, ID-1, and ID-2. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached and with the sign post or structure that shall support the signs. See the Message Schedule for information on the type and quantity of signs requiring CMCS brackets at each sign location.

4 Mounting Bolts/Hardware

Provide stainless steel screws, flat washers, lock washers, and nylon washers as needed to properly, safely, and securely mount the aluminum sign panel to the CMCS bracket. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. The CMCS bracket and aluminum sign panel assembly shall be securely strap mounted to the sign post or other structure using heavy-duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

SECTION C4 Posts & Mounting Hardware

CMCC Type Bracket



1 Elevation - CMCC
Scale: 1 1/2" = 1'-0"

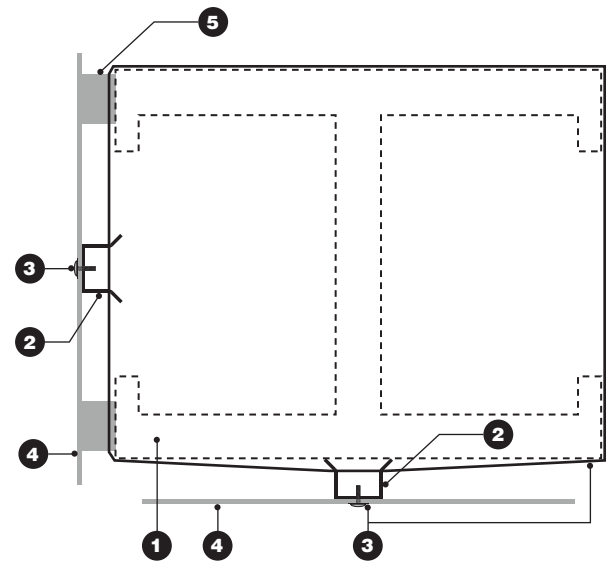
Associated Sign Types:

The following sign types can be mounted using the CMCC type bracket:

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1



2 Section - CMCC
Scale: 1 1/2" = 1'-0"



3 Photo Example of Epoxy Added to Bracket
Scale: NTS

Description

General

The CMCC type bracket is a standard stainless steel sign bracket suitable for mounting sign panels to CTA elevated columns and similar structures.

1 Existing CTA Elevated Train Support Column or Similar Structures

Verify on site the existing conditions at each mounting location.

2 CMCC Bracket

The CMCC bracket shall be a standard stainless steel sign bracket suitable for mounting signs to CTA elevated columns and similar structures.

3 Mounting Hardware

Provide stainless steel screws, flat washers, lock washers, and nylon washers as needed to

properly, safely, and securely mount the aluminum sign panel to the CMCC bracket. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. The CMCC bracket and aluminum sign panel assembly shall be securely strap mounted to the column using heavy-duty stainless steel sign straps. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

4 Aluminum Sign Panel

The CMCC type bracket securely mounts aluminum sign panels including, but not limited to, sign types BS, DSS, ID-1, and ID-2 to existing CTA columns and similar structures. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached to the column. See the Message Schedule for

information on the type and quantity of signs requiring CMCC brackets at each sign location.

5 Aluminum Spacers

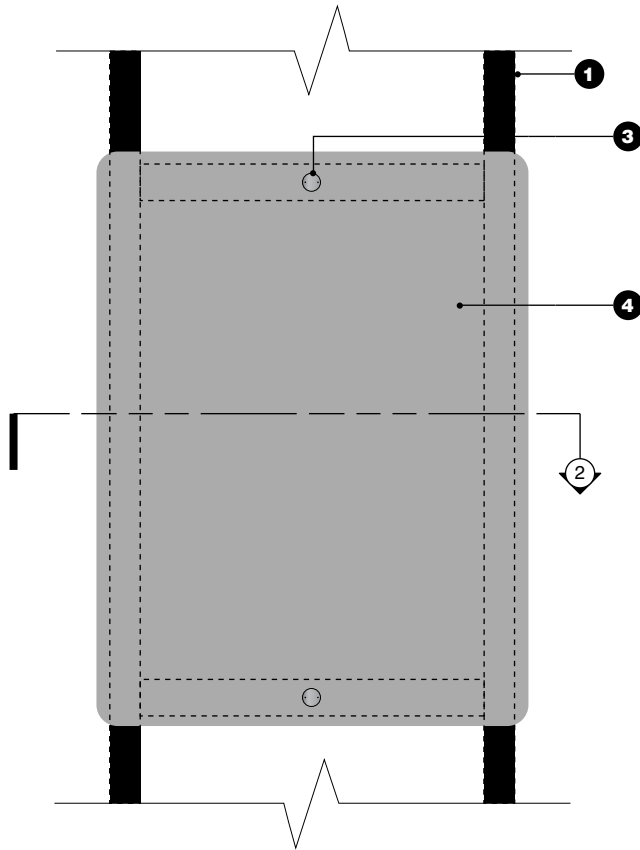
Provide aluminum spacers behind sign panels when needed to secure or stabilize the panels. Paint spacers to match the back of the sign face. Coordinate spacers with the stainless steel sign straps so that spacers are securely held in the correct position.

6 Epoxy

At locations where the existing conditions are such that the mounting bracket can slide on the stainless steel strap, secure the bracket to the strap with a small amount of high-strength epoxy and an additional bent piece of stainless steel strapping. Carefully apply the epoxy to the back of the bracket at the strap so that it is not readily visible and so that the bracket is securely held in position.

SECTION C4 Posts & Mounting Hardware

CMCW Type Bracket



1 Elevation - CMCW
Scale: 1 1/2" = 1'-0"

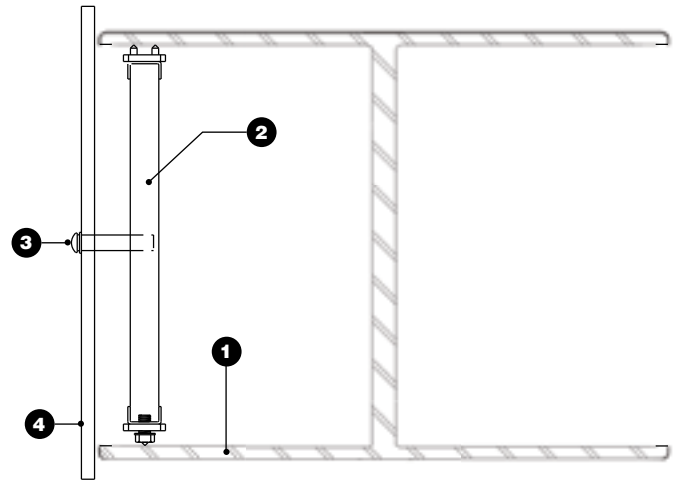
Associated Sign Types:

The following sign types can be mounted using the CMCW type bracket:

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1



2 Section - CMCW
Scale: 1 1/2" = 1'-0"



3 Photo Example of CMCW
Scale: NTS

Description

General

The CMCW type bracket is a standard stainless steel sign bracket suitable for mounting sign panels to wide flange beams and similar structures.

1 Existing Wide Flange Beam Support Column or Similar Structures

Verify on site the existing conditions at each mounting location.

2 CMCW Bracket

The CMCW bracket shall be a standard stainless steel sign bracket suitable for mounting signs to wide flange beams and similar structures.

3 Mounting Hardware

Provide stainless steel screws, flat washers, lock washers, and nylon washers as needed to

properly, safely, and securely mount the aluminum sign panel to the CMCW bracket. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. The CMCW bracket shall be securely mounted to the wide flange beam. The aluminum sign panel assembly shall be securely mounted to the CMCW. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

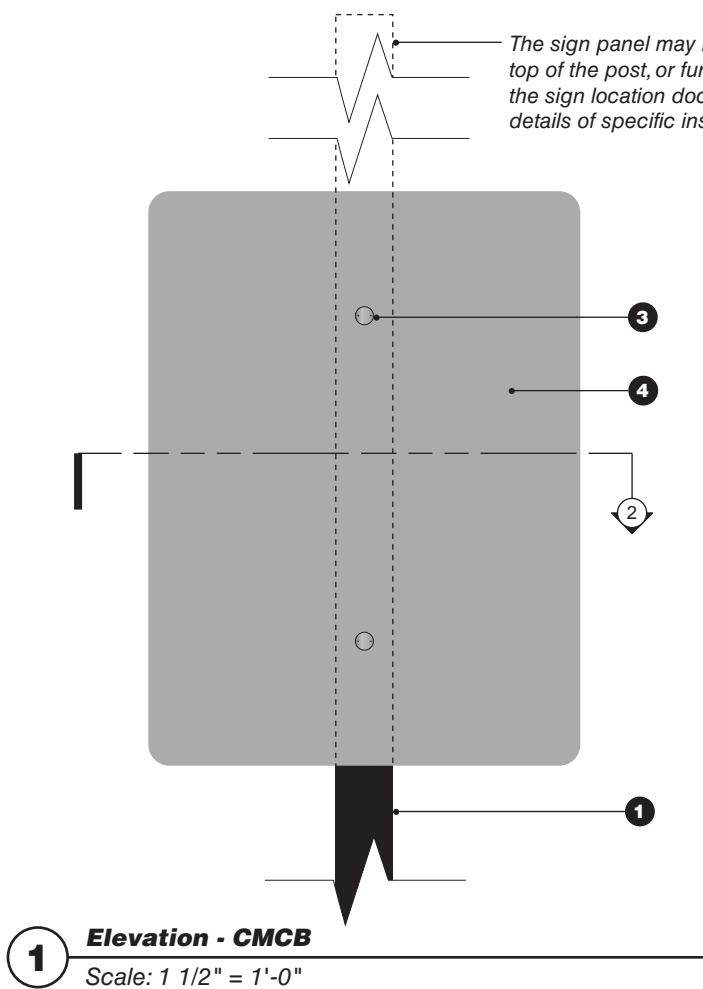
4 Aluminum Sign Panel

The CMCW type bracket securely mounts aluminum sign panels including, but not limited to, sign types BS, DSS, ID-1, and ID-2 to existing wide flange beams and similar structures. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached to the column. See the Message

Schedule for information on the type and quantity of signs requiring CMCW brackets at each sign location.

SECTION C4 Posts & Mounting Hardware

CMCB Type Mounting

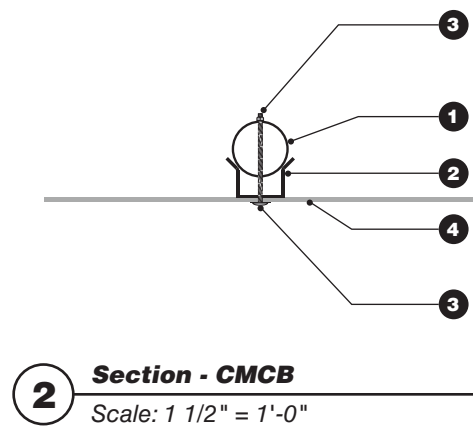


Associated Sign Types:

The following sign types can be mounted using the CMCB type mounting hardware:

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1



Description

General

The CMCB type bracket is a standard type of stainless steel sign mounting bracket used to center-mount sign panels to new SRSP sign posts.

1 SRSP Sign Post

Use CMCB hardware with new SRSP sign posts. At locations where signs are mounted using CMCB hardware, the SRSP sign posts may require additional mounting holes. Coordinate the SRSP posts with locations using CMCB hardware so that the required mounting holes are provided before the posts are finished.

2 CMCB Bracket

The CMCB bracket shall be a standard

stainless steel sign bracket suitable for mounting signs to SRSP sign posts.

3 Mounting Hardware

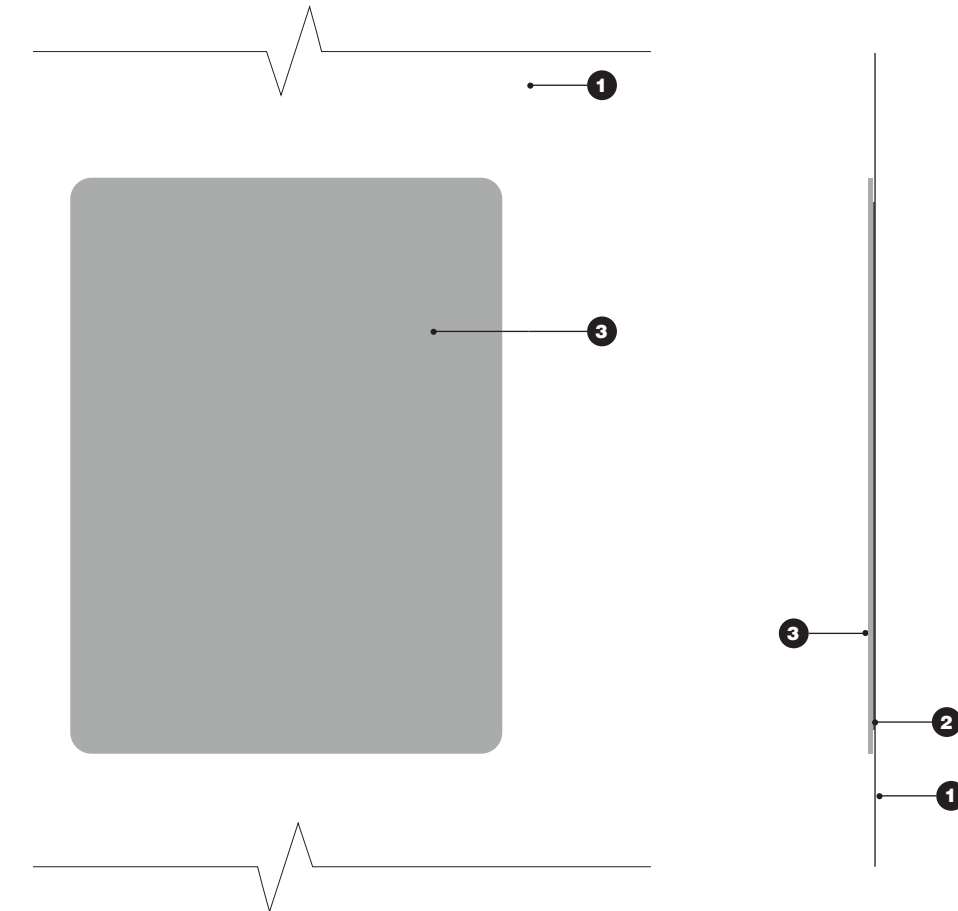
The stainless steel sign mounting bracket shall be used to bolt mount the sign panel to the SRSP sign post. Provide stainless steel screws, flat washers, lock washers, and nylon washers as needed to properly, safely, and securely mount the aluminum sign panel to the SRSP sign post. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

4 Aluminum Sign Panel

The CMCB type mounting hardware securely mounts aluminum sign panels including, but not limited to, sign types DSS, ID-1, and ID-2 to SRSP sign posts. Coordinate the bracket quantity and sign panel configuration with the type and quantity of signs to be attached. See the Message Schedule for information on the type and quantity of signs requiring CMCB mounting hardware at each sign location.

SECTION C4 Posts & Mounting Hardware

CMWA Type Mounting



1 **Elevation - CMWA**
Scale: 1 1/2" = 1'-0"

2 **Section - CMWA**
Scale: 1 1/2" = 1'-0"

Associated Sign Types:

The following sign types can be mounted using the CMWA type mounting:

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1

Sign Type TR-3 - See Section B1

Description

General

The CMWA mounting is used for mounting sign panels to existing walls that cannot be drilled to accept the CMWB mounting.

1 Existing Wall

Verify on site the existing wall conditions at each mounting location.

2 Mounting Tape / Adhesive

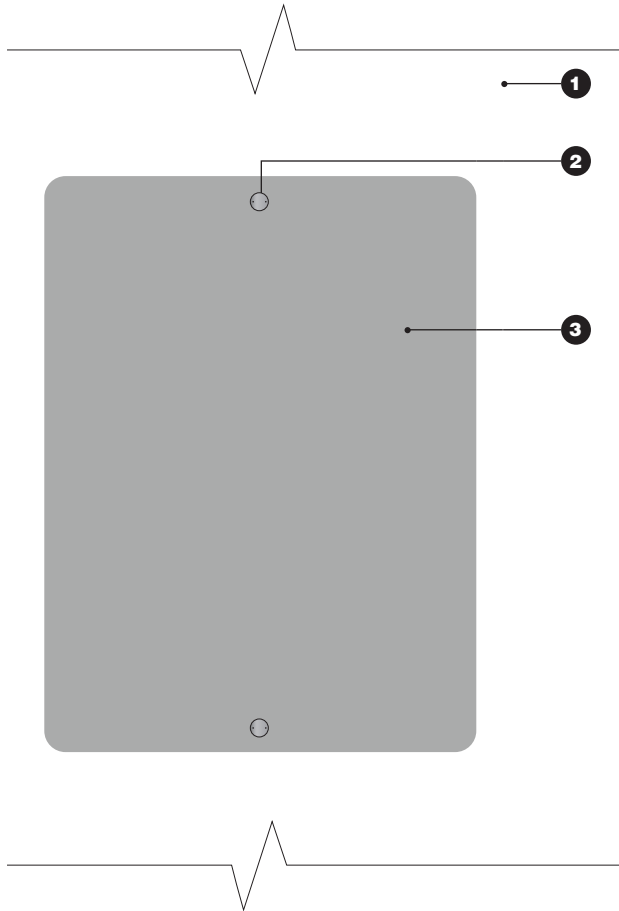
Provide appropriate adhesives and double faced tapes as needed to properly, safely, and securely mount the aluminum sign panels to the existing wall.

3 Aluminum Sign Panel

The CMWA type mounting securely mounts aluminum sign panels including, but not limited to, sign types BS, DSS, ID-1, ID-2, and TR-3 to existing walls. See the Message Schedule for information on the type and quantity of signs requiring CMWA mounting at each sign location.

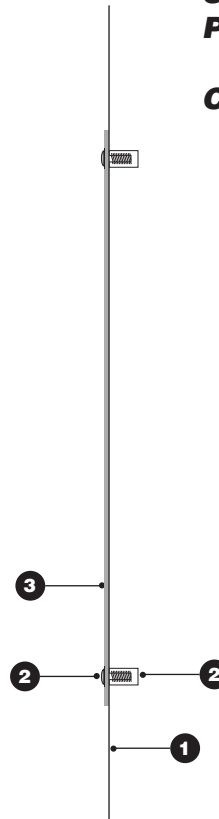
SECTION C4 Posts & Mounting Hardware

CMWB Type Mounting



1 **Elevation - CMWB**
Scale: 1 1/2" = 1'-0"

2 **Section - CMWB**
Scale: 1 1/2" = 1'-0"



Associated Sign Types:

The following sign types can be mounted using the CMWB type bracket:

Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1

Sign Type TR-3 - See Section B1

Description

General

The CMWB mounting hardware is used for mounting sign panels to existing walls.

1 Existing Wall

Verify on site the existing wall conditions at each mounting location.

2 Mounting Hardware

Provide stainless steel screws, flat washers, lock washers, nylon washers, and appropriate anchors as needed to properly, safely, and securely mount the aluminum sign panel to the existing wall. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

3 Aluminum Sign Panel

The CMWB type mounting hardware securely mounts aluminum sign panels including, but not limited to, sign types BS, DSS, ID-1, ID-2, and TR-3 to existing walls. See the Message Schedule for information on the type and quantity of signs requiring CMWB mounting hardware at each sign location.

SECTION C4 Posts & Mounting Hardware

SMCB Sign Base



1 Plan View - SMCB Sign Base

Scale: NTS

Associated Sign Posts:

Type SRSP-2 sign posts. See pages C4.3 and C4.5.

Description

General

Type SMCB sign base is CTA Item No. 2100007 or an equal custom cast iron sign base accepted by the RTA. The SMCB sign base shall be anchored to a variety of paving materials. See the Technical Specifications and page E4.2 of the Appendix for additional information.

The photo shown is for general reference only.

1 Sign Post

Verify if the location shall have a new sign post or if an existing sign post is to be used. For existing sign posts, verify on site the sign post size, configuration and material. Verify if the existing sign post can safely, securely, and properly be mounted using a SMCB type sign base.

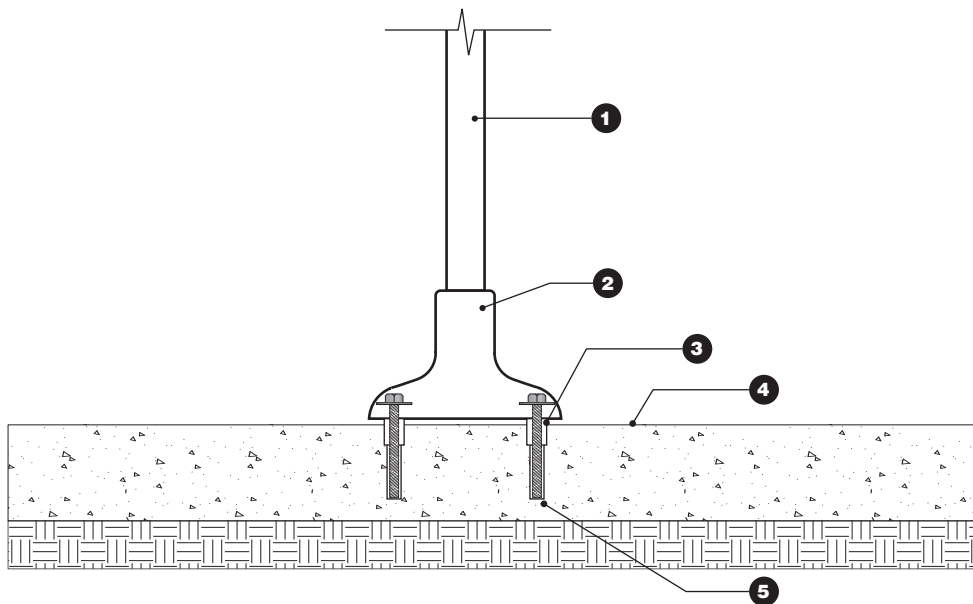
2 SMCB Sign Base

The SMCB sign base shall be CTA Item No. 2100007, or an equal custom cast iron sign base accepted by the RTA. The base shall safely, securely, and properly support signs and sign posts. The base shall be safely, securely, and properly anchored to a variety of paving and ground conditions and materials. Verify the existing conditions and materials at all installation locations. Provide professionally engineered concrete foundations as needed. Provide all mounting hardware and materials as needed to safely, securely, and properly install the SMCB sign base and the sign posts/sign panel assemblies that are mounted to the SMCB bases. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign posts and

sign bases for maintenance, repairs, and updates. Signs shall be installed level and plumb.

SECTION C4 Posts & Mounting Hardware

SMCB Sign Base Typical Mounting to Existing Concrete



1 **SMCB Mounting Detail – Typical Installation in Existing Concrete**
Scale: 1" = 1'-0"

Description

General

The SMCB sign base shall be anchored to a variety paving materials. Shown is the design intent for mounting the SMCB sign base to existing concrete. For all SMCB locations, provide appropriate mounting anchors and all other materials required to properly, safely, and securely mount the SMCB sign base.

1 Sign Post

2 SMCB Sign Base

3 Leveling Hardware

Provide durable, concealed, corrosion-resistant hardware as required to make the sign base level.

4 Existing Concrete

Verify the existing concrete can safely, securely, and properly support the installed sign.

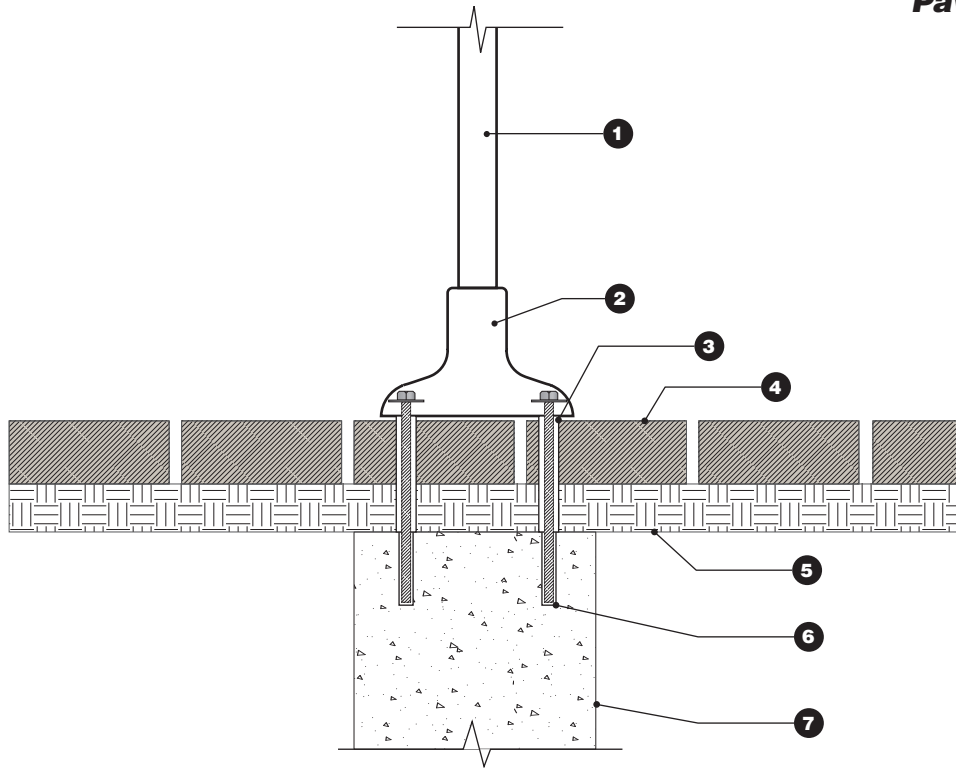
5 Anchor Hardware

Determine the type of anchor hardware required to safely, securely, and properly secure the SMCB sign base and anchor the installed sign. All hardware must be corrosion-resistant, vibration-resistant, and suitable for use in exposed exterior locations.

See the Technical Specifications for additional information and requirements.

SECTION C4 Posts & Mounting Hardware

SMCB Sign Base Typical Mounting to Existing Pavers



1 **SMCB Mounting Detail – Typical Installation in Existing Pavers**
Scale: 1" = 1'-0"

Description

General

The SMCB sign base shall be anchored to a variety paving materials. Shown is the design intent for mounting the SMCB sign base at locations with existing pavers. For all SMCB locations, provide appropriate mounting anchors and all other materials required to properly, safely, and securely mount the SMCB sign base.

1 Sign Post

2 SMCB Sign Base

3 Leveling Hardware

Provide durable, concealed, corrosion-resistant hardware as required to make the sign base level.

4 Existing Pavers

Verify the existing conditions at the installation location. Coordinate the SMCB mounting with the existing conditions. Replace or reinstall pavers as needed to restore the appearance of the area around the sign.

5 Conditions and Materials Below the Pavers

Verify the existing conditions and materials below the pavers. Verify if the sign can be safely, securely, and properly installed. Determine if the existing conditions and materials can safely, securely, and properly support the installed sign.

6 Anchor Hardware

Determine the type of anchor hardware

required to safely, securely, and properly secure the SMCB sign base and anchor the installed sign. All hardware must be corrosion-resistant, vibration-resistant, and suitable for use in exposed exterior locations.

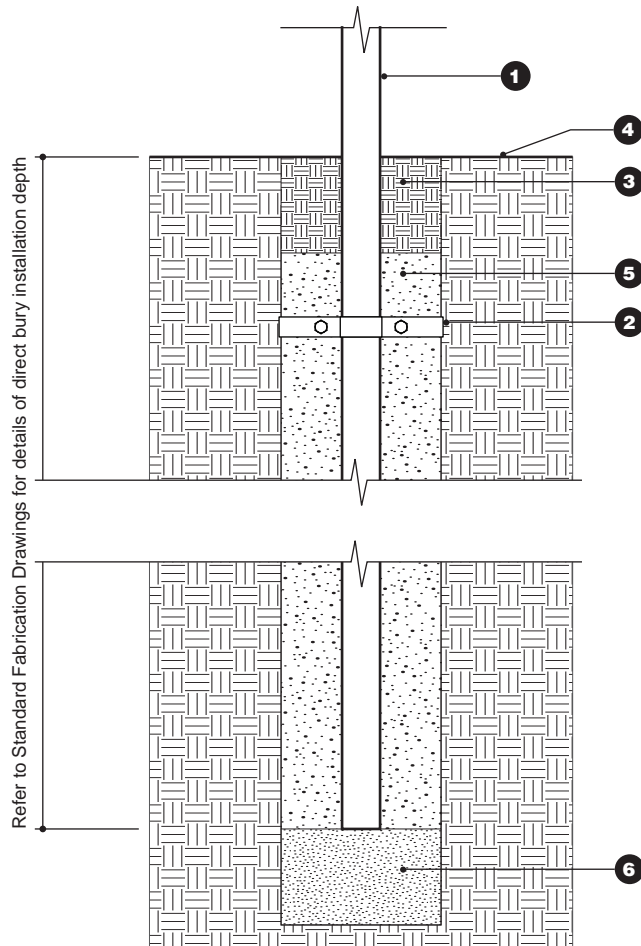
7 New Concrete Foundation (If Required)

If required to safely, securely, and properly mount the sign, provide a new, professionally engineered sign foundation. Coordinate the sign foundation with the sign and the existing conditions. Carefully install the new concrete so that the sign can be safely, securely, and properly installed.

See the Technical Specifications for additional information and requirements.

SECTION C4 Posts & Mounting Hardware

SMDB Direct Bury Sign Post Mounting



1 SMDB Direct Bury Sign Post Mounting

Scale: 1" = 1'-0"

Associated Sign Posts:

Type SRSP-5 sign post. See page C4.6.

Description

General

The SMDB direct bury sign post mounting shall be used at locations where a SRSP sign post is installed in dirt.

1 SRSP Sign Post

Sign post type SRSP-5 is typically used at direct bury locations.

2 SMRC Riser Clamp

Stainless steel pipe riser clamp is installed on SRSP-5 sign post 10" below grade to prevent post from being rotated.

3 Backfill

6" backfill at top of hole to restore site conditions.

4 Existing Soil

Verify the existing conditions at the installation location. Verify if the sign can be safely, securely, and properly installed.

5 CA6 Crushed Stone Aggregate

6 Sand

See the Technical Specifications for additional information and requirements.

PART D

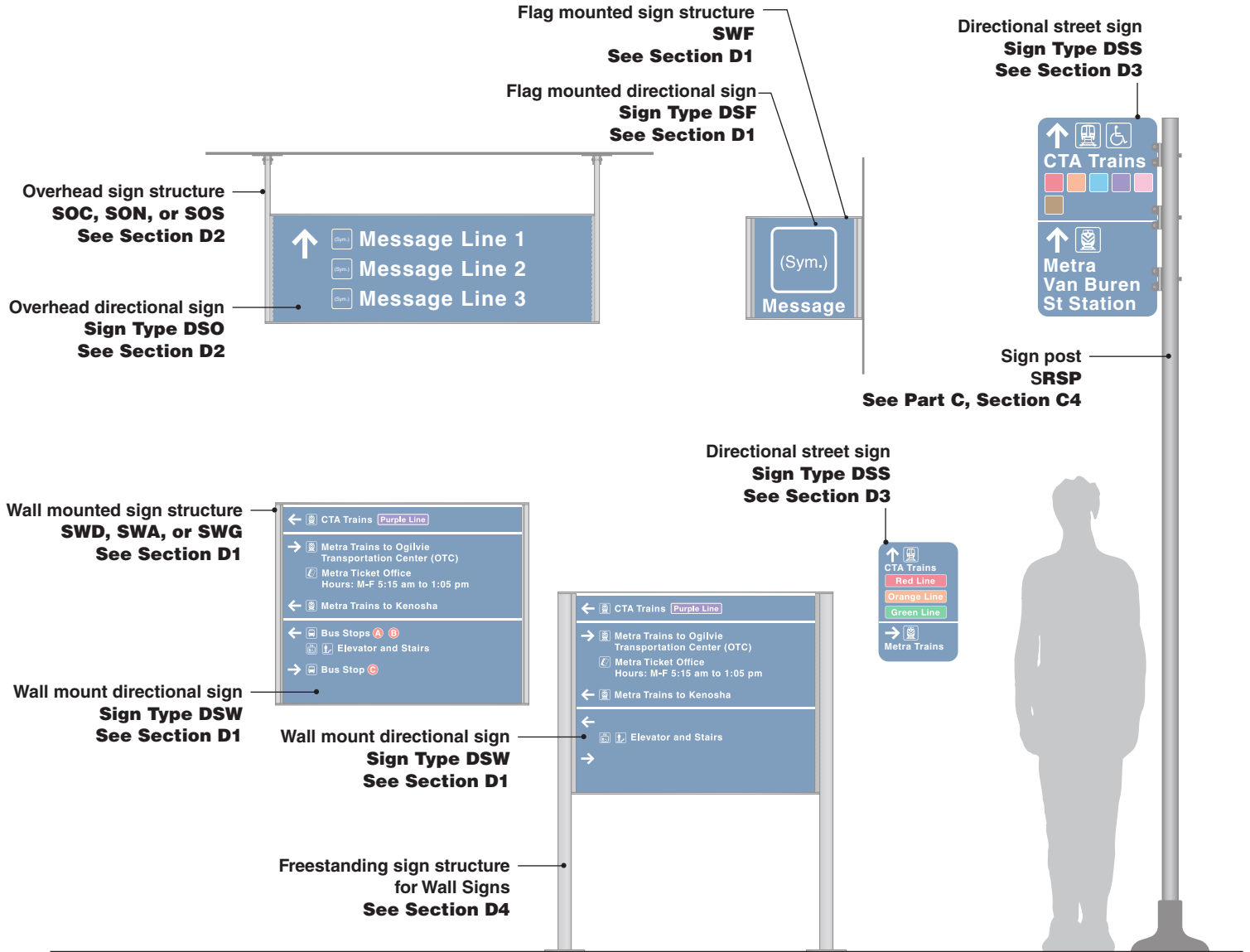
Directional Wall Signs

Directional Overhead Signs

Directional Street Signs

Freestanding Structures

Introduction



Description

General

Part D general reference.



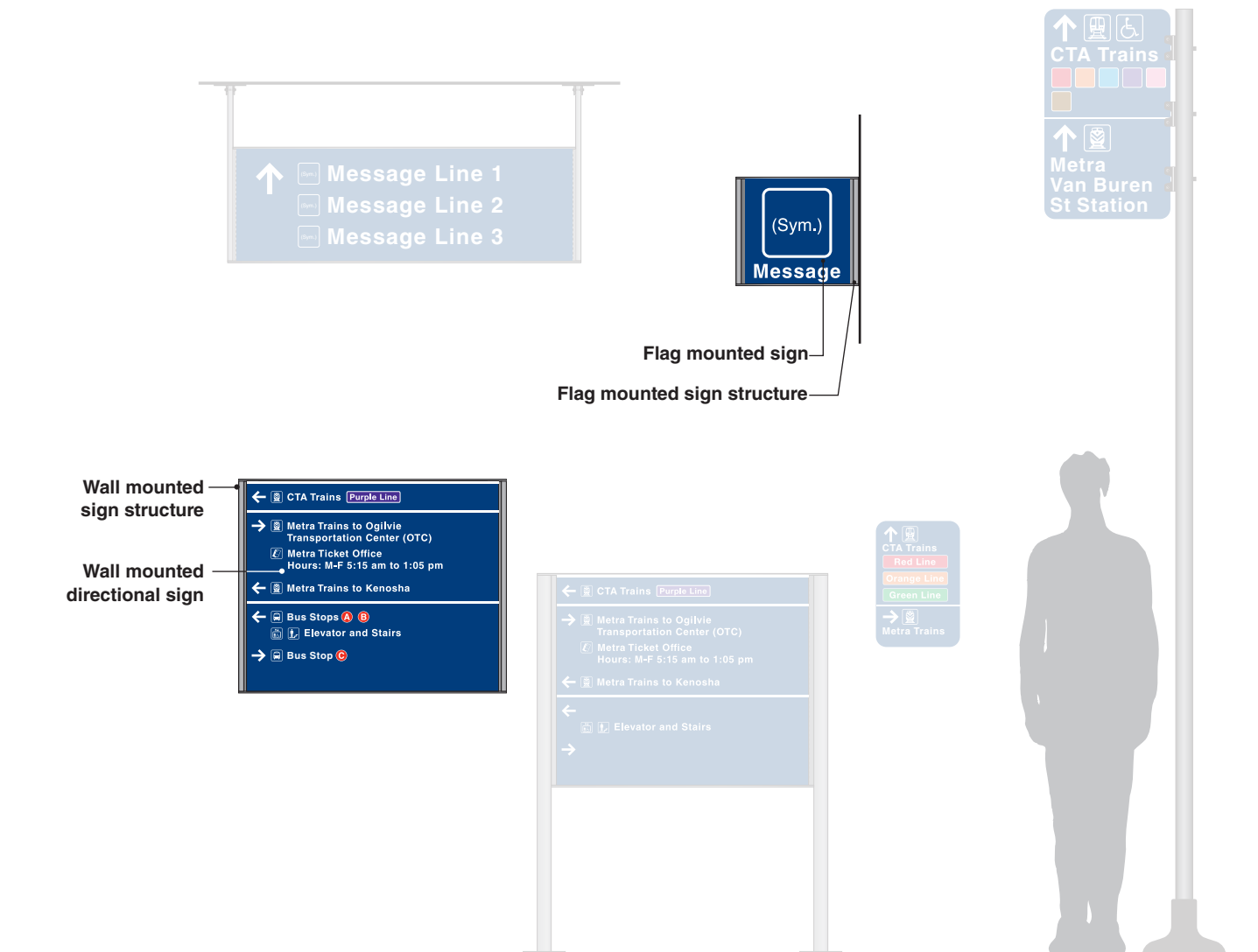
RTA Interagency Signage
Standards Manual

Date: 08.29.14
Revised: 04.17.19,
07.29.22

Part D
D0.1

SECTION D1
Directional Wall Signs

Section Introduction



Description

General

Section D1 general reference.



SECTION D1 Directional Wall Signs

Overview

Introduction - Sign Type DSW / Directional Sign - Wall Mounted

The DSW sign types are wall mounted directional signs. DSW signs are typically used in interior locations. To provide the flexibility to respond to a variety of architectural conditions and message requirements, the signs have a variety of standard sizes, message layouts, and materials. The following pages provide general guidance on how to determine the correct size, layout, and material for sign type DSW.

Step 1 – Select the appropriate panel width

Sign type DSW has three standard panel widths: 2'-0", 2'-6", 3'-0". Measure the wall space available at the location where the sign is to be installed and select the panel width that coordinates best with the architectural conditions. Select the 2'-6" wide panel if there are no architectural restrictions or message requirements that would make one of the other panel widths more appropriate. See page D1.5 for additional information.

Step 2 – Determine the messages to appear on the sign and the sign layout

Determine the information that needs to appear on the sign. Content needs to be focused and concise. Keep messages simple. Examine the architectural and wayfinding contexts at the intended sign location. Consider the sign as a component within the overall wayfinding program.

Sign type DSW layouts are typically based on the following overall Message Hierarchy:

- 1) Information related to CTA Trains
 - a) CTA Trains
 - b) CTA Train lines
 - c) Accessibility or other directional information related to CTA Trains
 - d) Miscellaneous information related to CTA Trains
- 2) Information related to Metra Trains
 - a) Metra Trains
 - b) Metra Train Stations
 - c) Metra Trains identified by end-of-line stations (e.g. Metra Trains to Kenosha)

- d) Accessibility or other directional information related to Metra Trains
- e) Miscellaneous information related to Metra Trains
- 3) Information related to CTA and Pace Buses (includes Bus Stops)
 - a) Bus Stops
 - c) Accessibility or other directional information related to CTA and Pace Buses
 - d) Miscellaneous information related to CTA and Pace Buses
- 4) Information related to other transportation options (e.g. Intercity Buses, Amtrak Trains)
- 5) Misc. General Information
- 6) Toilets
- 7) Streets
- 8) Major Destinations (Parks, Cultural Institutions, Civic Institutions, etc.)

Organize messages based on the Message Hierarchy. Layout the messages using the typical reference examples shown on the following pages as guides. There are a variety of message layouts available. Layouts are selected based on the type of message and the quantity of information to be displayed.

Maintain the text size, line spacing, character spacing, symbol and arrow sizes and positions, and margins indicated in the reference examples.

Messages typically include symbols. Only symbols from the accepted symbol vocabulary and provided by the RTA should be used. If a message does not have a symbol, position the message on the sign as if it did have a symbol, leaving the symbol area blank.

Generally, do not use abbreviations. Commonly used abbreviations like "Ave" or "St" may be used if required to help a message fit on a sign.

General message groups are separated by a line. For example, a line is used to separate the messages relating to CTA Trains from the messages relating to Metra Trains. A line does not appear after the last message on the sign.

Within message groups, the messages are typically arranged with the arrows ordered "up," "left," "right," and "down/behind." When bus stop symbols are used on a sign, the bus stop

messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.

See pages D1.6 to D1.13 for additional information. All layouts need to be submitted to the RTA for review prior to fabrication.

Step 3 – Determine panel height

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6". See pages D1.14 to D1.16 for additional information.

Step 4 – Determine panel thickness / type

Sign type DSW has several standard panel thicknesses and materials. Determine the panel thickness and material based on where and how the sign is to be mounted.

Typically, a DSW sign shall be mounted using an SWD sign frame that is secured to the wall with appropriate hardware and anchors. When using the SWD sign frame, the DSW panel shall be 1/2" thick.

When a DSW sign is mounted to glass or to a wall that can not be drilled, the DSW panel shall be 1/8" thick, and the sign will be mounted using SWA or SWG sign frame that is secured to the glass or wall using appropriate adhesives.

DSW signs can be fabricated using .080" thick aluminum panels with printed vinyl graphics. The panels are typically wall mounted directly using appropriate adhesives, or they are mounted using an aluminum sign frame that is secured to the wall with appropriate hardware and anchors.

For temporary installations, self-adhesive vinyl sheeting with printed graphics may be applied directly to walls or to glass surfaces.

See pages D1.3 and D1.4 for additional information regarding the DSW panel materials and how they are typically used.



SECTION D1 Directional Wall Signs

Material and Mounting Options

Introduction

The following chart provides general information regarding the standard materials available for the production of sign type DSW and where these materials are typically used. For any particular DSW location, there may be more than one appropriate material or mounting method. Final material selection and specification shall be based on a variety of factors, including, but not limited to, the type of station or location where the sign is to be placed, the anticipated life expectancy for the sign, the surface where the sign is to be mounted, and the budget available for fabrication and installation. Materials and methods not listed may be used to meet special requirements. All material selections must be submitted to the RTA for review prior to fabrication.

Sign Type Material Code*	Material	Material Details	Typical Application	Mounting
2	Self-adhesive vinyl with digitally printed graphics	<p>Provide high resolution inkjet or silkscreen printed decal signs on opaque 3M vinyl sheeting, or an equivalent, durable, self-adhesive material, for single sided application.</p> <p>Decals shall be removable and shall have an exterior-grade adhesive.</p> <p>Provide a clear protective anti-graffiti overlamine as recommended by the sheeting manufacturer to protect the decal's typography and graphics.</p> <p>Decal graphics shall be printed using durable, exterior grade, UV resistant, and water resistant inks. Alternate printing methods may be used if accepted by the RTA.</p>	<p>Locations where signs are adhered directly to glass.</p> <p>Locations where temporary or short-term signs are needed.</p>	Adhered directly to wall or glass (see page D1.19)
5	.080" aluminum panel with digitally printed applied vinyl graphics	<p>The sign face panel shall be .080" thick painted aluminum with applied vinyl graphics.</p> <p>The overall background of the sign and the white text and graphics shall be an exterior-grade, premium, cast, white printable graphic film.</p> <p>The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film.</p> <p>Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics.</p> <p>Provide appropriate adhesives and double faced tapes as needed to properly, safely, and securely mount the sign panel to the existing wall or glass.</p>	<p>Wall or glass mounted signs in non-downtown stations.</p> <p>Locations where graffiti or vandalism is a concern.</p>	<p>Adhered directly to wall or glass (see page D1.19)</p> <p>SWA, SWG (see page D1.18)</p> <p>SWSF (see page D1.20)</p>



SECTION D1 Directional Wall Signs

Material and Mounting Options

Sign Type Material Code*	Material	Material Details	Typical Application	Mounting
8	1/8" thick Rhino panel	The sign face panel shall be a 1/8" thick exterior-grade Rhino panel, or an equivalent panel with embedded UV-resistant graphics accepted by the RTA.	Wall mounted signs in downtown stations where frames can not be mounted using mechanical fasteners. Signs in downtown stations that are mounted to glass.	SWA, SWG (see page D1.18)
9	1/2" thick Rhino panel	The sign face panel shall be a 1/2" thick exterior-grade Rhino panel, or an equivalent panel with embedded UV-resistant graphics accepted by the RTA.	Wall mounted signs in downtown stations where frames can be mounted using mechanical fasteners. Floor/ground mounted signs in downtown stations.	SWD (see page D1.17) SFD (see Section D4)
12	1/8" thick acrylic with digitally printed applied vinyl graphics	The sign face panel shall be 1/8" thick painted acrylic with applied vinyl graphics. The overall background of the sign and the white text and graphics shall be an exterior-grade, premium, cast, white printable graphic film. The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics.	Wall mounted signs in non-downtown stations where frames can not be mounted using mechanical fasteners. Signs in non-downtown stations that are mounted to glass.	SWA, SWG (see page D1.18)
13	1/2" thick acrylic with digitally printed applied vinyl graphics	The sign face panel shall be 1/2" thick painted acrylic with applied vinyl graphics. The overall background of the sign and the white text and graphics shall be an exterior-grade, premium, cast, white printable graphic film. The graphics shall be digitally printed directly onto the graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics.	Wall mounted signs in non-downtown stations where frames can be mounted using mechanical fasteners. Floor/ground mounted signs in non-downtown stations.	SWD (see page D1.17) SFD (see Section D4)

* See Section A3 for additional information regarding sign type material codes



SECTION D1

Directional Wall Signs

Overview



1

Elevation - Available DSW Panel Sizes

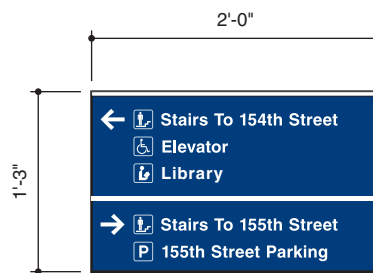
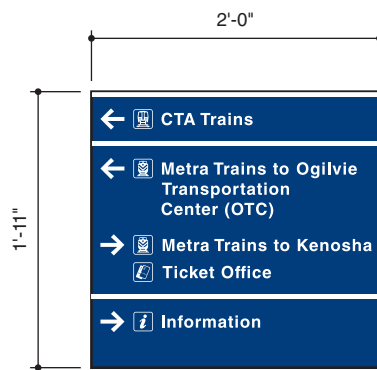
Scale: 1 1/2" - 1'-0"

Description

Step 1:
Select the Appropriate Panel Width
 Sign type DSW has three standard panel widths: 2'-0", 2'-6", and 3'-0". And, DSW signs have three standard panel heights: 1'-3", 1'-11", and 2'-6".
 The chart above summarizes the 9 standard DSW panel sizes available.
 To determine the appropriate panel width, measure the wall space available at the desired location and select the panel width that best fits the architectural condition. Select 2'-6" wide panel if there are no restrictions.

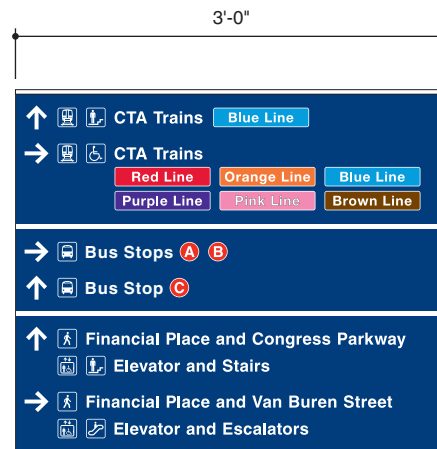
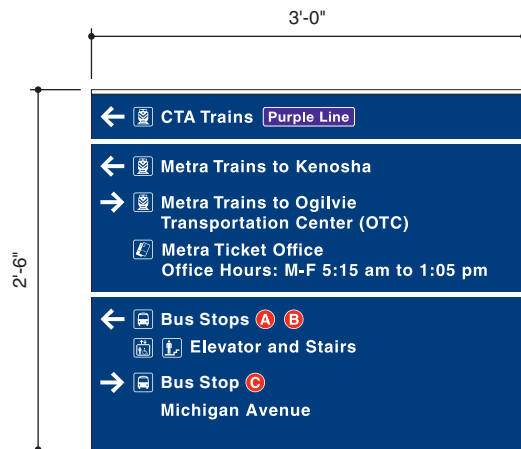
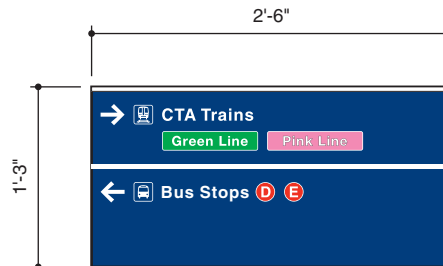
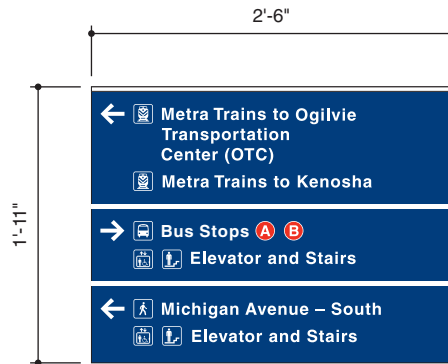
Panel sizes are determined by the amount and type of information to be displayed and the amount of space available for the sign. See page D1.6 for additional information on establishing and formatting sign messages.





SECTION D1 Directional Wall Signs

Overview



Reference: Sample Message Layouts Using Standard Sizes for DSW Sign Types

Description

Step 2:

Determine the Messages

Determine the information that needs to appear on the sign. Content needs to be focused and concise. Keep messages simple. Examine the architectural and wayfinding contexts at the intended sign location. Consider the sign as a component within the overall wayfinding program.

Organize messages based on the Message Hierarchy. Layout the messages using the typical reference examples shown on this and the following pages as guides. There are a variety of message layouts available. Layouts are selected based on the type of message and the quantity of information to be displayed.

Maintain the text size, line spacing, character spacing, symbol and arrow sizes and positions, and margins indicated in the reference examples.

Messages typically include symbols. Only symbols from the accepted symbol vocabulary and provided by the RTA should be used. If a message does not have a symbol, position the message on the sign as if it did have a symbol, leaving the symbol area blank.

Generally, do not use abbreviations. Commonly used abbreviations like "Ave" or "St" may be used if required to help a message fit on a sign.

General message groups are separated by a line. For example, a line is used to separate the messages relating to CTA Trains from the messages relating to Metra Trains. A line does not appear after the last message on the sign.

Within message groups, the messages are typically arranged with the arrows ordered "up", "left", "right", and "down/behind". When bus stop symbols are used on a sign, the bus stop

messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.

The messages and layouts shown here are for reference only. See the Message Schedule for the correct messages for each sign type DSW location, or, when directed to do so by the RTA, determine the required content.

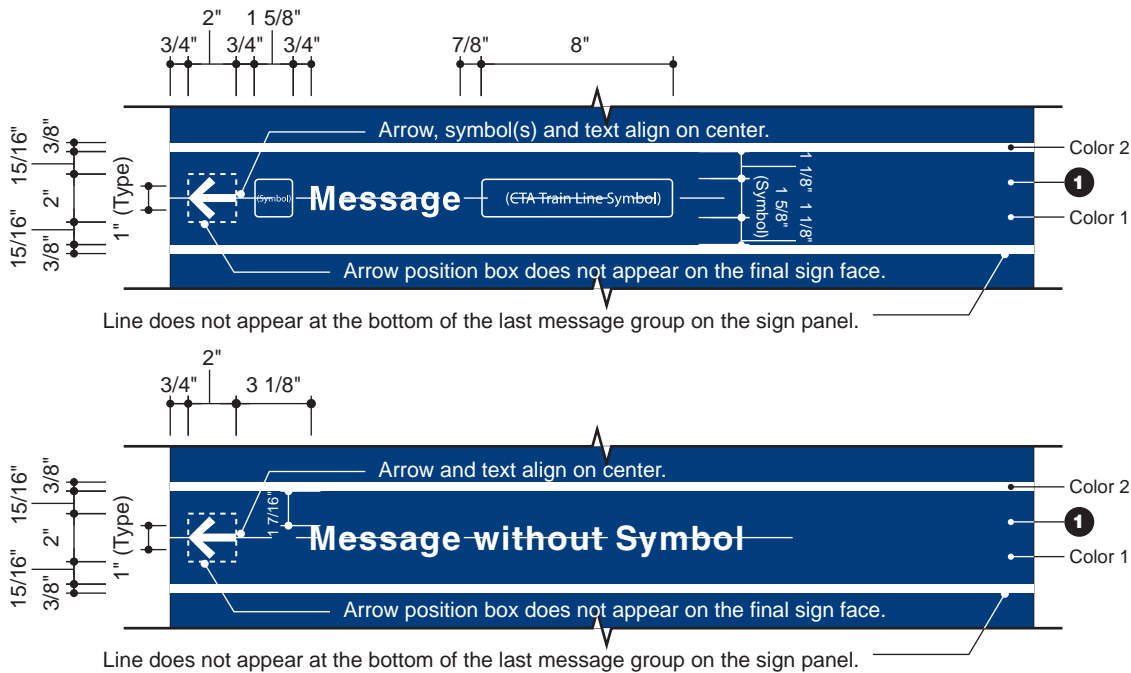
Digital art for DSW signs may be provided by the RTA. When directed to do so by the RTA, determine the appropriate layouts and set up the digital art for the DSW signs based the layout guidelines, the message content, and the available space.

All layouts need to be submitted to the RTA for review prior to fabrication.



SECTION D1 Directional Wall Signs

Layout Guidelines Example 1



1

Elevation - Schematic DSW Layout Guidelines Example 1

Scale: 1 1/2" = 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

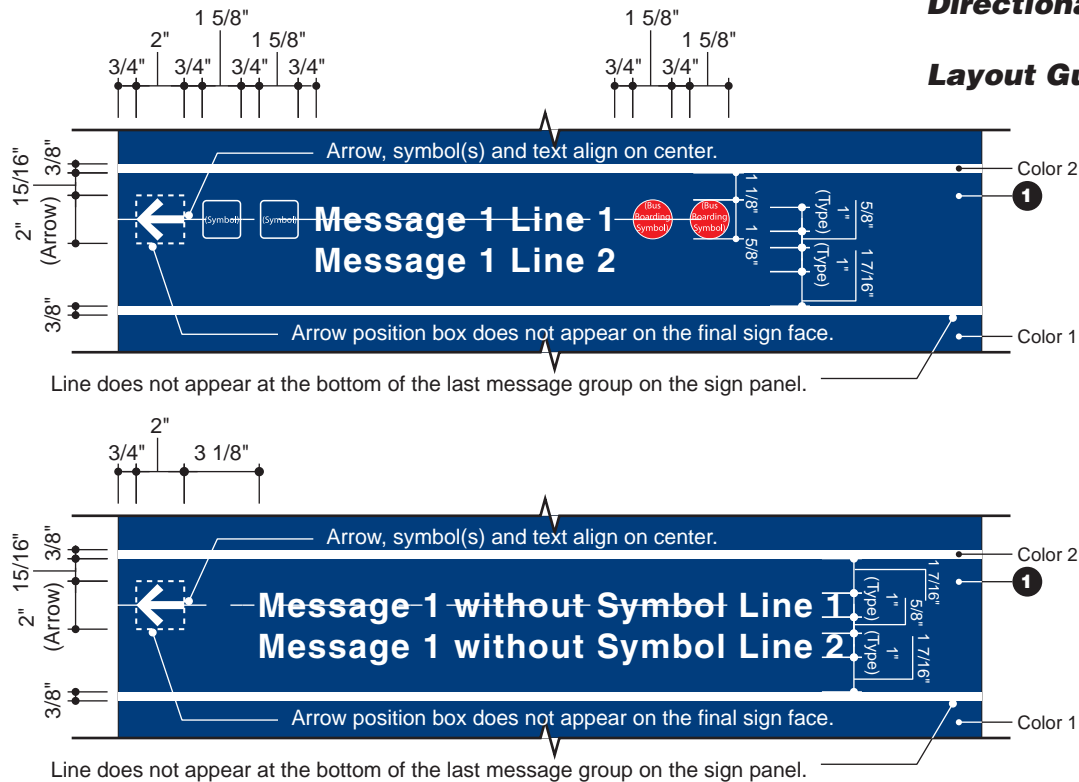
The elevation shown provides typical layout guidance for conditions with a single one-line message. The message may include one arrow, one or more symbols, and message text. See page D1.8 for information on positioning symbols and message text when more than one symbol is used. If the message does not include a symbol, the typography for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 2



1

Elevation - Schematic DSW Layout Guidelines Example 2

Scale: 1 1/2" = 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

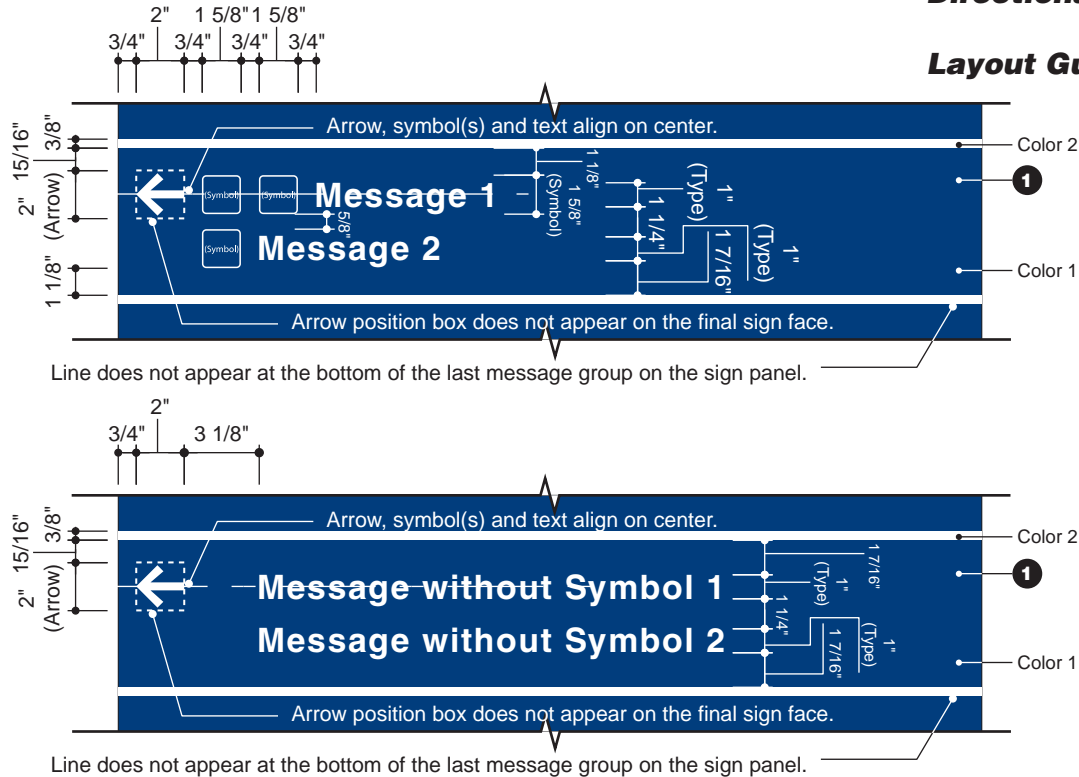
The elevation shown provides typical layout guidance for conditions with a single multi-line message. The message may include one arrow, one or more symbols, and two or more lines of message text. See page D1.7 for information on positioning the symbol and message text when only one symbol is used. If the message does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 3



1 Elevation - Schematic DSW Layout Guidelines Example 3

Scale: 1 1/2" - 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

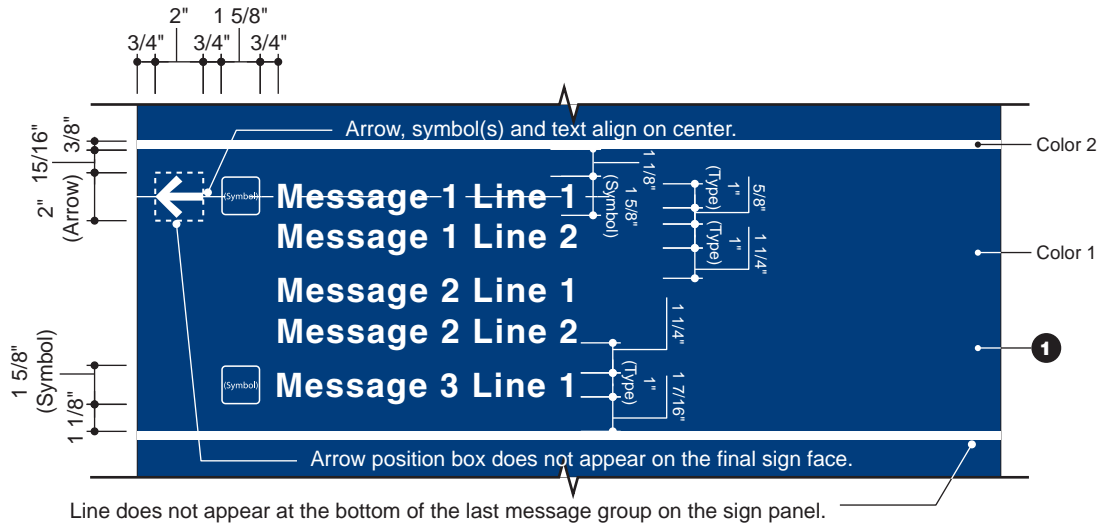
The elevation shown provides typical layout guidance for conditions with two or more single-line messages. The messages may include one arrow, one or more symbols, and two or more single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 4



1 Elevation - Schematic DSW Layout Guidelines Layout 4

Scale: 1 1/2" - 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

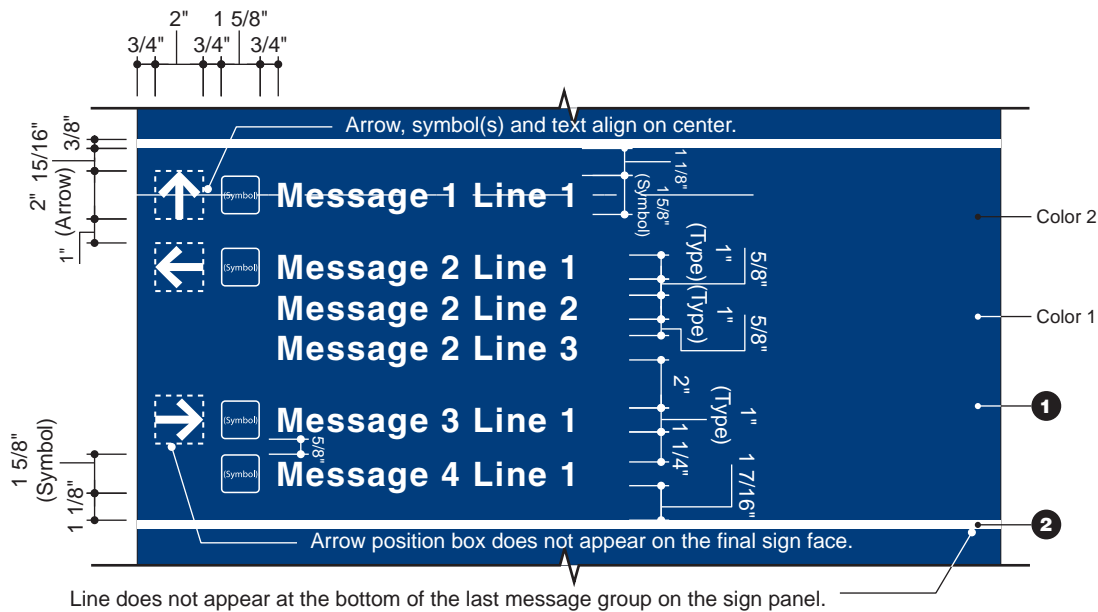
The elevation shown provides typical layout guidance for conditions with combination of single and multi-line messages. The messages may include one arrow, one or more symbols, and multi-line and single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message. If no arrow is used, positions of the type and symbols do not change.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 5



1 Elevation - Schematic DSW Layout Guidelines Example 5

Scale: 1 1/2" - 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

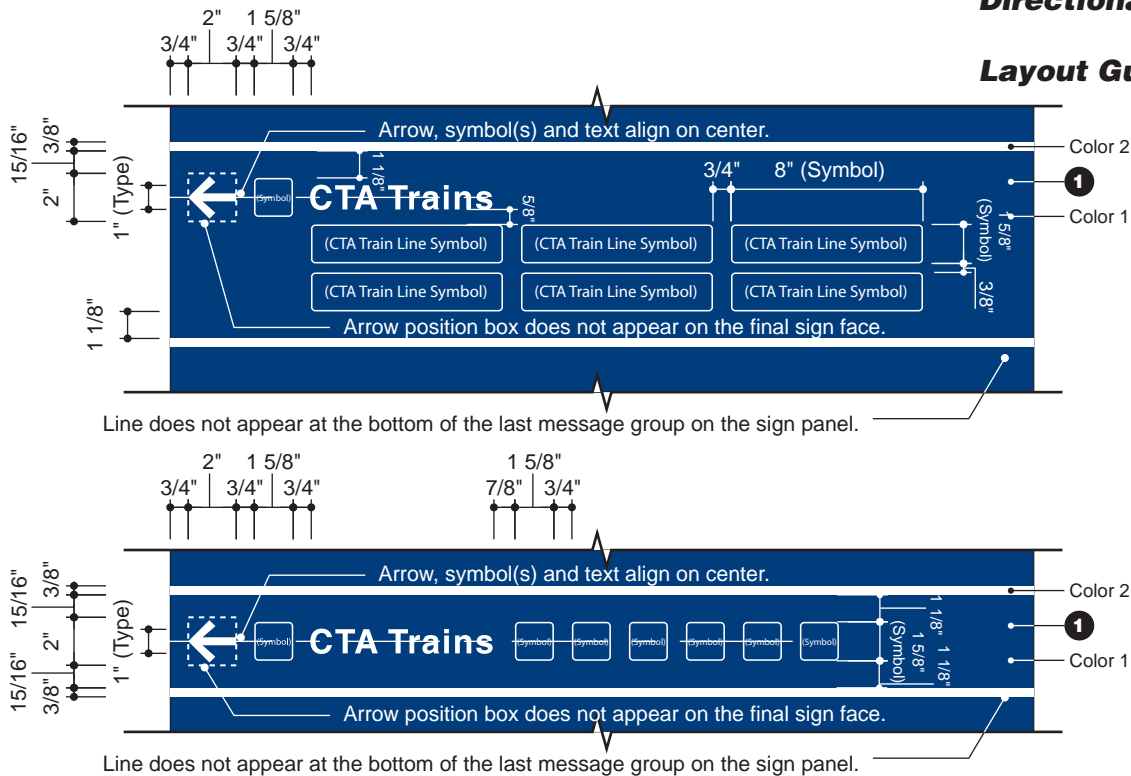
The elevation shown provides typical layout guidance for conditions with more than one arrow. In addition to the arrows, messages may include one or more symbols and a combination of multi-line or single-line messages. If one of the messages does not include a symbol, the type for that message shall be positioned 3 1/8" to the right of the arrow position box (5 7/8" from the left edge of the panel). If a CTA train line symbol is part of the message, the symbol shall appear center aligned on the message cap height and 7/8" to the right of the appropriate message.

The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign, before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 6



1 Elevation - Schematic DSW Layout Guidelines Example 6

Scale: 1 1/2" - 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

1 Layout

The elevation shown provides typical layout guidance for conditions with a single one-line message and multiple CTA train line symbols with one arrow. Use the CTA train line symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show the line color.

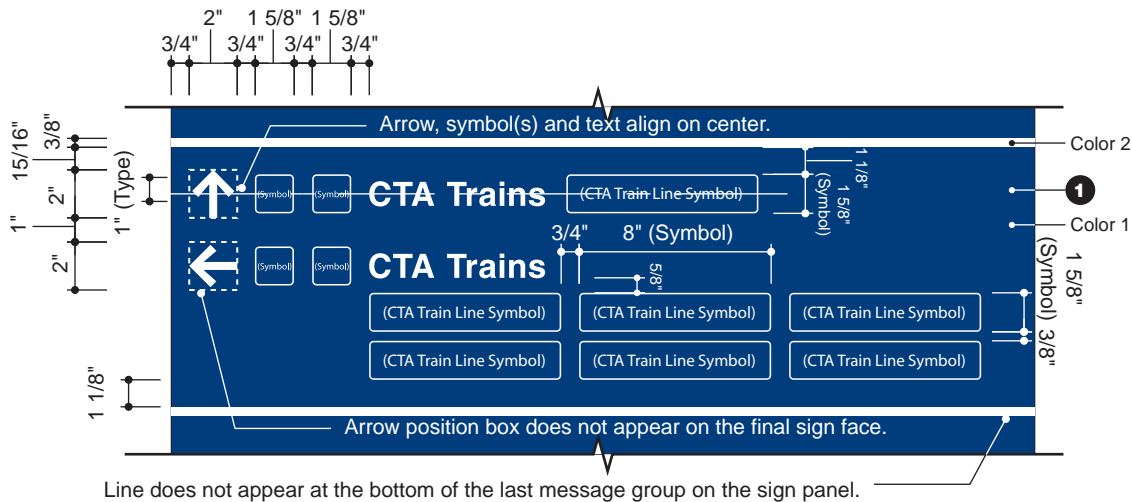
The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign,

before the first message.

SECTION D1 Directional Wall Signs

Layout Guidelines Example 7



1 Elevation - Schematic DSW Layout Guidelines Example 7

Scale: 1 1/2" - 1'-0"

Sign Panel Size:

For additional information on standard DSW panel sizes, see pages D1.14, D1.15, D1.16.

Panel Fabrication:

For additional information on sign type DSW sign panel fabrication and mounting options, see pages D1.3 and D1.4.

Description

General

The DSW series sign types are wall mounted signs that provide directional information. See page D1.2 for additional information and guidance on the messages that appear on sign type DSW and on how to determine the correct size and layout for sign type DSW.

The messages shown are for reference only.

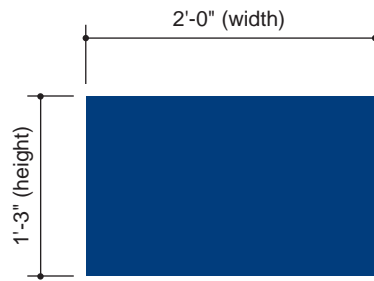
1 Layout

The elevation shown provides typical layout guidance for conditions with a single one-line message and multiple CTA train line symbols with multiple arrows. Use the CTA train line symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show the line color.

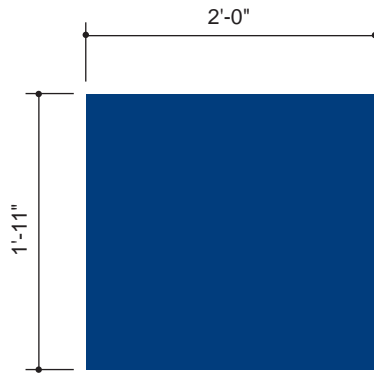
The font for messages shall be Helvetica LT Std Bold.

Related messages are grouped as per the message hierarchy (see page D1.2 for a description of the message hierarchy). Message groups are separated by lines. A line also appears along the top edge of the sign,

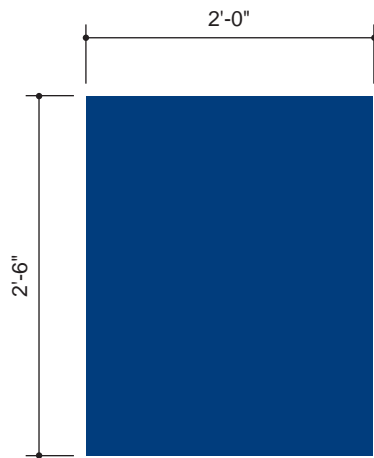
before the first message.



**Typical Sign Face Panel Size for
Sign Type DSW-24x15**



**Typical Sign Face Panel Size for
Sign Types DSW-24x23**



**Typical Sign Face Panel Size for
Sign Types DSW-24x30**

SECTION D1 **Directional Wall Signs**

Size Summary **2'-0" Wide Panels**

Description

Step 3:

Determine Panel Height

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

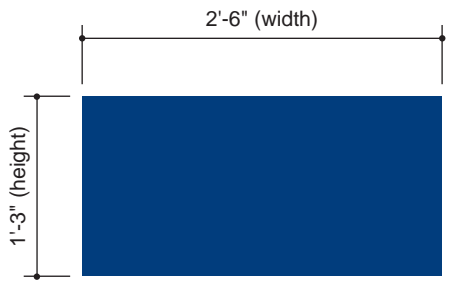
The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type code for each DSW sign gives information about the sign's size and material. For example, a typical DSW sign type code is DSW-24x15.8.1. The first two numbers indicate the panel's width and height in inches. In the example given, the panel would be 24" wide x 15" high. The third number indicates the sign panel's thickness and material. The fourth number indicates that the sign panel is single-sided. All DSW sign panels are single-sided.

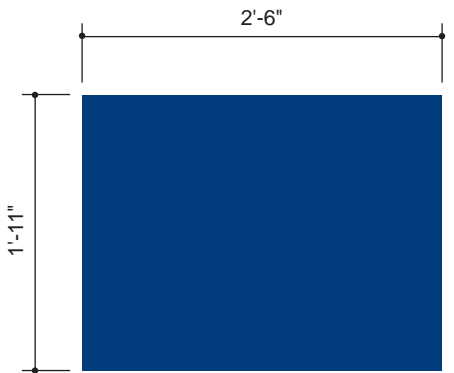
See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options.

See section A3 for additional information regarding sign type codes.

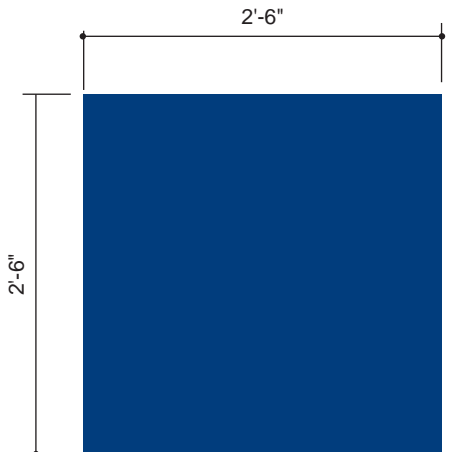




Typical Sign Face Panel Size for Sign Types DSW-30x15



Typical Sign Face Panel Size for Sign Types DSW-30x23



Typical Sign Face Panel Size for Sign Types DSW-30x30

SECTION D1 Directional Wall Signs

Size Summary 2'-6" Wide Panels

Description

Step 3:

Determine Panel Height

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

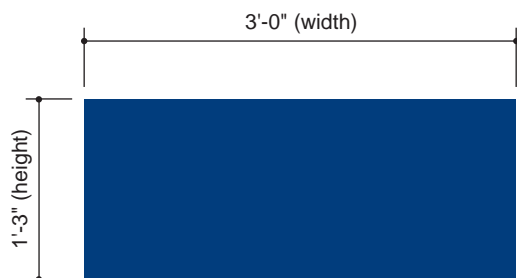
The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type code for each DSW sign gives information about the sign's size and material. For example, a typical DSW sign type code is DSW-24x15.8.1. The first two numbers indicate the panel's width and height in inches. In the example given, the panel would be 24" wide x 15" high. The third number indicates the sign panel's thickness and material. The fourth number indicates that the sign panel is single-sided. All DSW sign panels are single-sided.

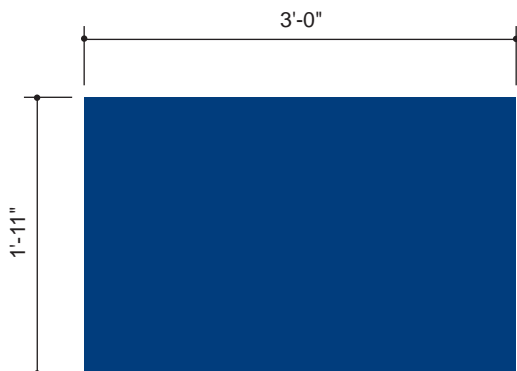
See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options.

See section A3 for additional information regarding sign type codes.

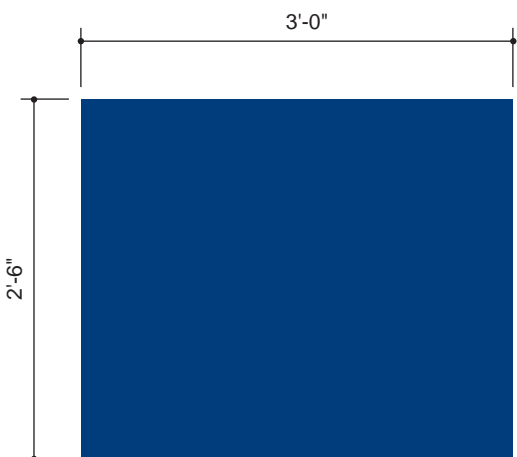




**Typical Sign Face Panel Size for
Sign Types DSW-36x15**



**Typical Sign Face Panel Size for
Sign Types DSW-36x23**



**Typical Sign Face Panel Size for
Sign Types DSW-36x30**

SECTION D1 **Directional Wall Signs**

Size Summary **3'-0" Wide Panels**

Description

Step 3:

Determine Panel Height

Based on the quantity and types of messages to appear, determine the height of the panel from one of three standards: 1'-3", 1'-11", or 2'-6".

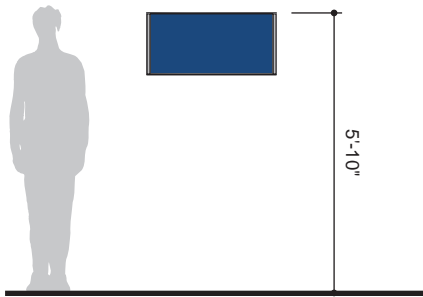
The sign height is based upon the quantity and complexity of the messages that are to appear on the sign.

The sign type code for each DSW sign gives information about the sign's size and material. For example, a typical DSW sign type code is DSW-24x15.8.1. The first two numbers indicate the panel's width and height in inches. In the example given, the panel would be 24" wide x 15" high. The third number indicates the sign panel's thickness and material. The fourth number indicates that the sign panel is single-sided. All DSW sign panels are single-sided.

See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options.

See section A3 for additional information regarding sign type codes.



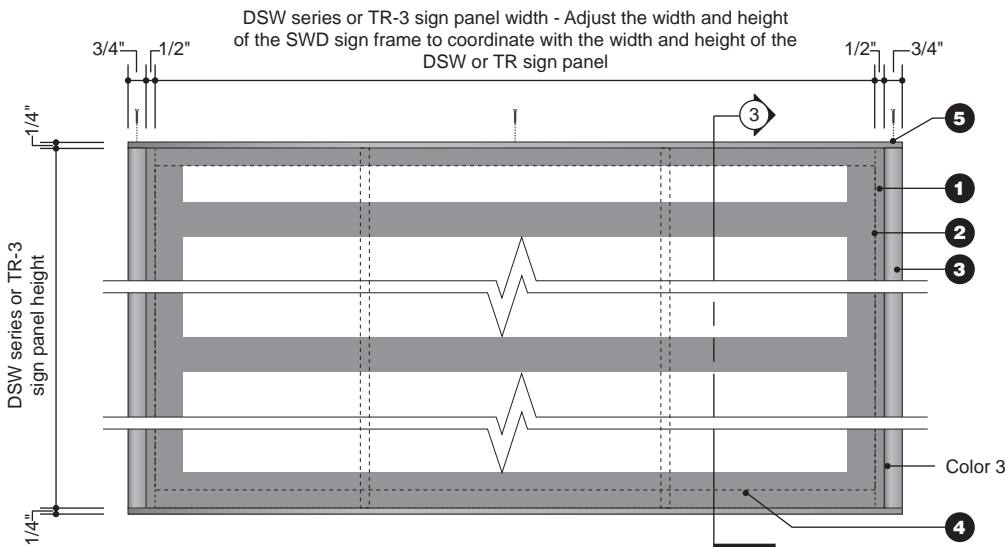


SECTION D1 Directional Wall Signs

SWD Sign Frame for 1/2" Thick Sign Panel

1 Typical Mounting Elevation

Scale: 1/4" = 1'-0"

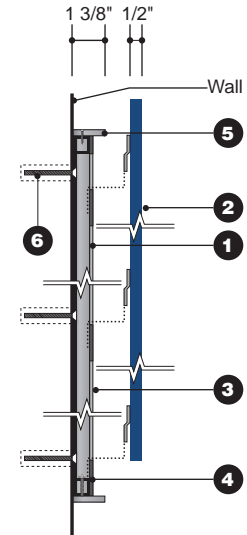


2 Elevation - SWD Sign Structure

Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:

1/2" thick sign type DSW or TR-3 sign face panels are typically mounted to SWD sign frames. See page D1.2 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW. See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options. For information on sign type TR-3, see Section B1.



3 Section View

Scale: 1 1/2" = 1'-0"

Description

General

SWD sign frames are used to wall mount 1/2" thick DSW or TR sign face panels at locations where walls can be drilled and the sign face panels and sign frames can be mounted using appropriate mechanical anchors and fasteners. The SWD sign frames are fabricated from aluminum. Typically, the DSW or TR sign face panels shall be acrylic with printed vinyl graphics. At select locations, the RTA may choose to use Rhino panel, or an equivalent panel with embedded UV resistant graphics that has been accepted by the RTA, as the DSW or TR sign face panel material. The DSW or TR sign type code will designate the material to be used for the sign face panel.

1 Aluminum Reveal Panel

Painted aluminum reveal panel supports the removable sign face panel. The reveal panel is safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panel. The reveal panel shall have laser cut openings to accept

the mounting clips on the back of the sign face panel. Coordinate the size and location of the openings in the reveal panel with the sign panel mounting clips so that the clips properly engage with the reveal panel and so that the sign panel is safely, securely, and properly held in the correct position. Portions of the reveal panel will be visible between the sign panel and the side bars.

2 Sign Panels

1/2" thick DSW or TR sign face panels shall be mounted to the SWD frames with concealed mounting clips. The mounting clips shall allow for removal of the sign face panels for maintenance, repairs, and updates.

3 Side Bars

Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSW or TR sign face panel.

4 Internal Framing

Provide concealed internal framing and bracing as

needed for the sign type SWD to be rigid and structurally sound and to properly, safely, and securely support the sign face panels which shall be mounted to it.

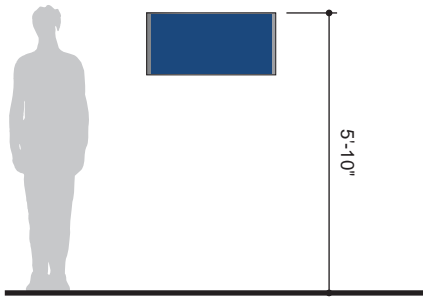
5 Removable Top Bar

Removable painted aluminum bar locks the DSW or TR sign face panel in position. The bar shall be secured using flush, vandal-resistant, side mounted set screws. The front edge of the bar shall be flush with the front edge of the sign face panel.

6 Concealed Wall Mounting

Provide all mounting hardware and materials as needed to properly, safely, and securely mount sign type SWD to various wall surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. Mounting hardware shall not be visible.





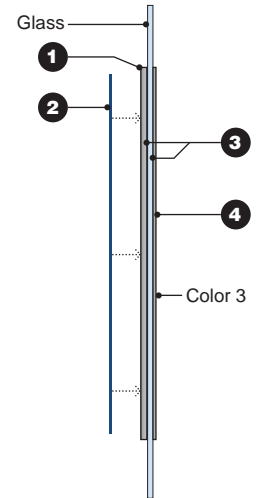
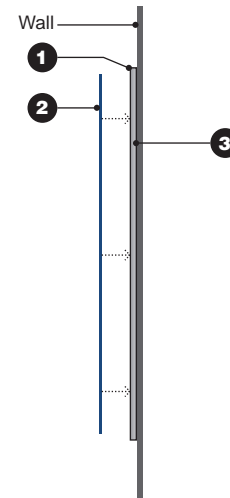
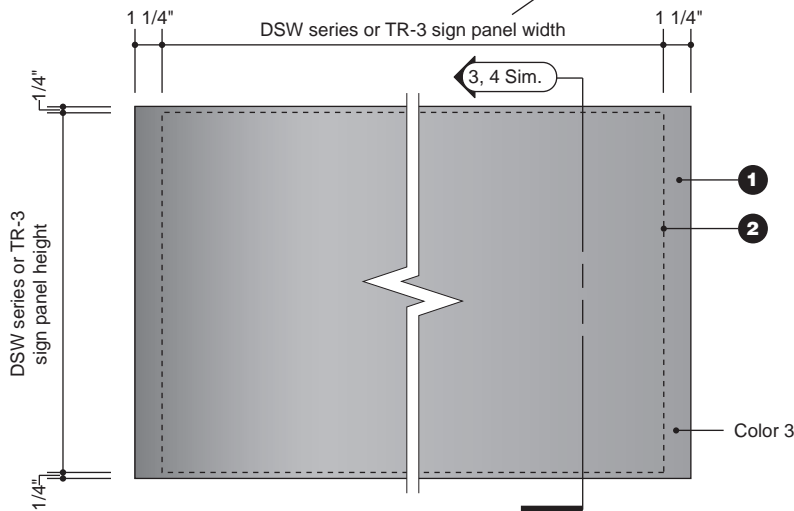
SECTION D1 Directional Wall Signs

SWA - Wall Mounting and SWG - Glass Mounting for 1/8" Thick Sign Panel

1 Typical Mounting Elevation

Scale: 1/4" = 1'-0"

Adjust the width and height of the SWA / SWG back panel to coordinate with the width and height of the DSW or TR sign panel.



2 Elevation - SWA & SWG Sign Frame/Back Panel

Scale: 1 1/2" = 1'-0"

3 Section - SWA

Scale: 1 1/2" = 1'-0"

4 Section - SWG

Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:

.080" to 1/8" thick Sign type DSW or TR-3 sign panels are typically mounted to SWA or SWG back panels. See page D1.2 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW. See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options. For information on sign type TR-3, see Section B1.

Description

General

SWA and SWG sign frames/back panels are used to wall or glass mount .080" to 1/8" thick DSW or TR sign face panels at locations where holes can not be drilled and a sign frame/back panel is needed. The SWA sign frames/back panels shall be used at locations where the sign is to be wall mounted. The SWG sign frames/back panels shall be used at locations where the sign is mounted to glass. For both SWA and SWG sign frames/back panels, the sign face panels and the sign frames shall be mounted using appropriate adhesives and/or double faced tape.

SWG and SWA sign frames shall be fabricated from acrylic with a painted finish. SWA includes a cover up panel. Typically, the DSW or TR sign face panels used with the SWA or SWG sign frames/back panels shall be 1/8" thick acrylic with printed vinyl graphics. At select locations, the RTA may choose to use either a .080" thick aluminum with printed vinyl graphics, a 1/8" thick Rhino panel, or an equivalent panel with

embedded UV resistant graphics that has been accepted by the RTA, as the DSW or TR sign face panel material. The DSW or TR sign type code will designate the material to be used for the sign face panel.

1 Painted Acrylic Backer Panel

The SWA or SWG sign frame/back panel shall be 1/4" thick painted acrylic. The sign frame/back panel shall be safely and securely mounted to the wall or glass surface. The sign type DSW or TR sign face panel is then properly, safely, and securely mounted to the face of the acrylic sign frame/back panel. The sign frame/back panel shall be painted on all visible surfaces.

2 Sign Panels Mounted to the SWA or SWG Sign Structure

The .080" or 1/8" thick sign type DSW or TR sign panels shall be properly, safely, and securely mounted to the SWA or SWG sign frames/back panels with appropriate mounting tapes and

adhesives.

3 Wall or Glass Mounting

Provide appropriate mounting tapes and adhesives as needed to safely, properly, and securely mount the SWA sign frames/back panels to various wall surfaces or to mount the SWG sign frames/back panels to various glass surfaces. All mounting tapes and adhesives shall be suitable for the surface the sign is to be mounted to and shall be vandal-resistant and suitable for exterior use.

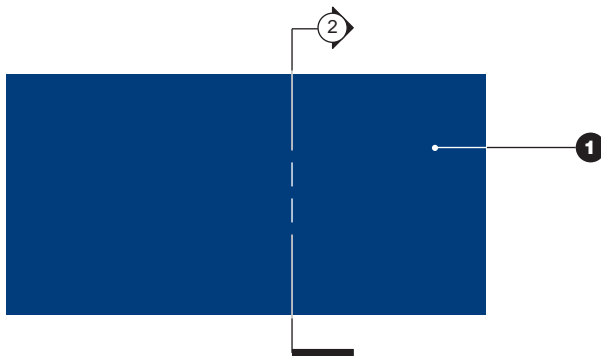
4 Cover-up Panel

Provide a 1/8" thick painted acrylic cover-up panel on the side of the glass opposite the sign. The cover-up panel shall be sized and finished to match the sign frame/back panel. The cover-up panel shall be properly, safely, and securely mounted to the face of the glass using appropriate mounting tapes and adhesives.

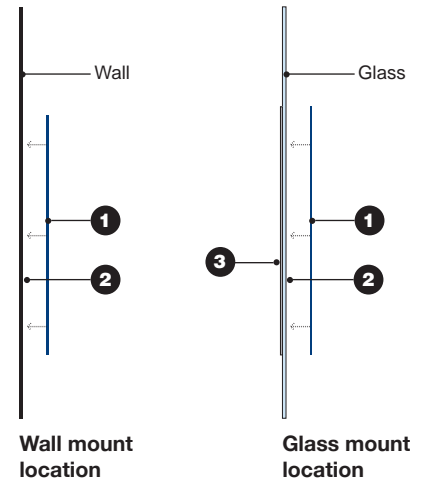


SECTION D1 Directional Wall Signs

DSW Signs Installed Directly on Wall / Glass



1 **Typical Elevation for Sign Type DSW (Directly Mounted)**
Scale: N.T.S.



2 **Typical Sections**
Scale: N.T.S.

For Sign Face Layout Information:

See page D1.2 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW. See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options. For information on sign type TR-3, see Section B1.

Description

General

Depending on the location, sign type DSW or TR may be mounted directly to walls or glass using appropriate adhesives and/or double faced tape. Typically, the DSW or TR sign face panels that are mounted directly to walls or glass shall be 1/8" thick acrylic with printed vinyl graphics or self adhesive vinyl with printed graphics that is adhered directly to the wall or glass surface. At select locations, the RTA may choose to use either a .080" thick aluminum with printed vinyl graphics, a 1/8" thick Rhino panel, or an equivalent panel with embedded UV resistant graphics that has been accepted by the RTA, as the DSW or TR sign face panel material. At locations where signs are mounted to glass, a cover up panel shall be provided. The DSW or TR sign type code will designate the material to be used for the sign face panel.

1 Sign Face Panels

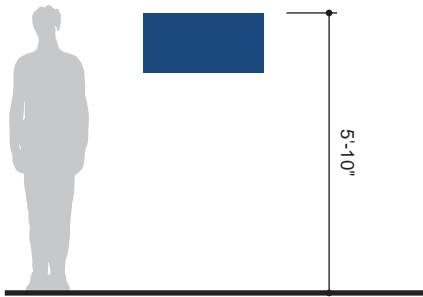
At locations where a sign frame/back panel has not been specified, the DSW or TR sign face panels shall be mounted directly to wall or glass using appropriate adhesives and/or double faced tape.

2 Wall or Glass Mounting

Provide appropriate mounting tapes and adhesives as needed to safely, properly, and securely mount the DSW or TR sign face panels directly to various wall or glass surfaces. All mounting tapes and adhesives shall be suitable for the surface the sign is to be mounted to and shall be vandal-resistant and suitable for exterior use

3 Cover-up Panel

Provide a 1/8" thick painted acrylic cover-up panel on the side of the glass opposite the sign. At locations where the sign is self adhesive vinyl mounted directly to the glass, the cover-up shall also be self adhesive vinyl. The cover-up panel shall be sized and finished to match the overall color of the sign face panel. The cover-up panel shall be properly, safely, and securely mounted to the face of the glass using appropriate mounting tapes and adhesives.



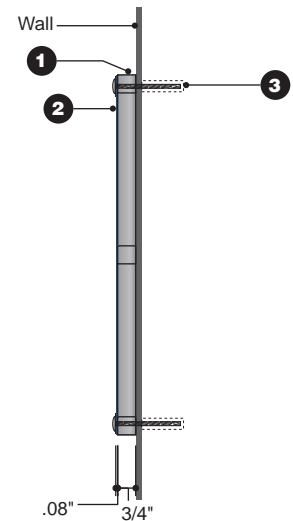
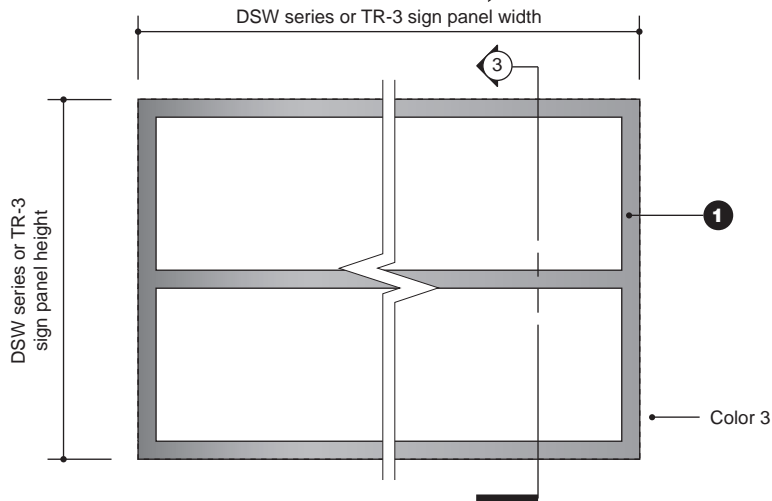
SECTION D1 Directional Wall Signs

SWSF special frame for .080" thick sign panels, used only at select locations

1 Typical Mounting Elevation

Scale: 1/4" = 1'-0"

Adjust the width and height of the frame to coordinate with the width and height of the DSW or TR sign panel.



2 Elevation - SWSF Sign Mounting Frame

Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:

See page D1.2 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW. See pages D1.3 and D1.4 for additional information on sign type DSW sign panel fabrication and mounting options. For information on sign type TR-3, see Section B1.

3 Section

Scale: 1 1/2" = 1'-0"

Description

General

At select locations, sign type DSW or TR sign face panels fabricated from .080" thick aluminum may be mounted to walls using aluminum framing to allow the sign face panels to be installed proud of the wall surface.

1 Aluminum Framing

3/4" square painted aluminum framing mounts sign panel to wall. Exposed ends of framing shall be closed and finished. Edges of framing shall align with edges of sign panel.

2 Sign Panel Mounted to the Aluminum Framing

.080" thick sign type DSW or TR sign panel. Remove any sharp edges from the exposed corners of the sign panel.

3 Wall Mounting

Sign panel and aluminum frame are mounted to the wall using screws installed through the face of the sign panel. Provide stainless steel screws, flat washers, lock washers, nylon washers, and appropriate anchors as needed to properly, safely, and securely mount the aluminum sign panel and framing to the existing wall. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.



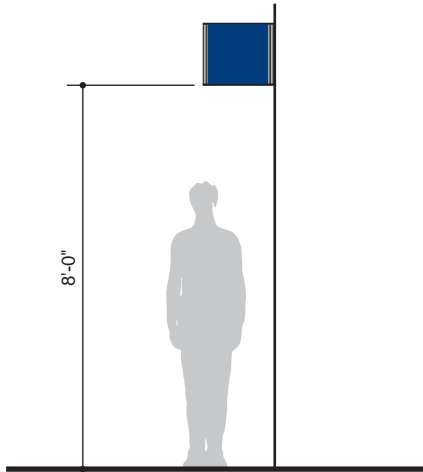
**RTA Interagency Signage
Standards Manual**

Date: 08.29.14
Revised: 07.22.16,
04.17.19

**Section D1
D1.20**

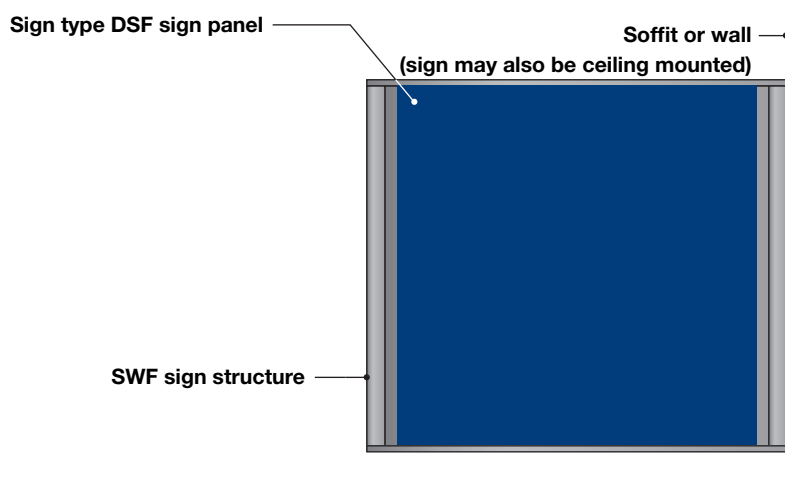
SECTION D1 Directional Wall Signs

DSF, SWF Overview



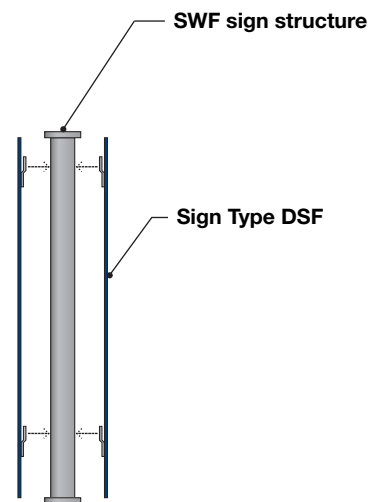
1 Typical Mounting Height

Scale: 1/4" = 1'-0"



2 Elevation - Flag Mounted Overhead Signs

Scale: 1 1/2" = 1'-0"



3 Side View

Scale: 1 1/2" = 1'-0"

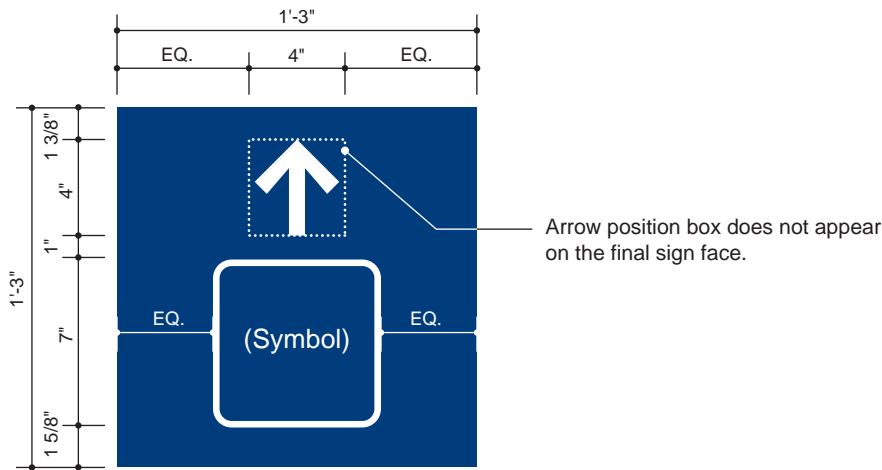
Description

General

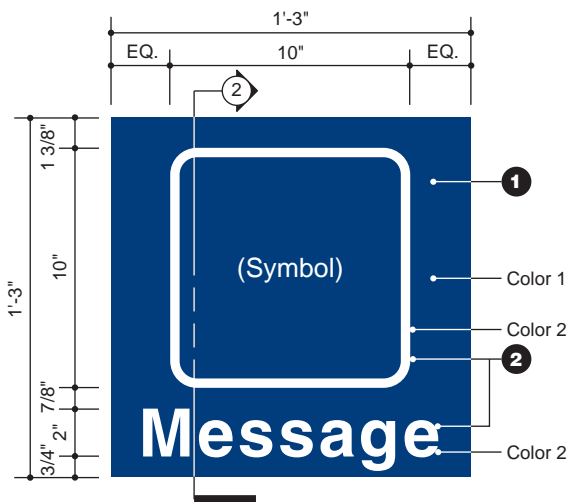
Sign type DSF is a flag mounted, non-illuminated sign. Sign type DSF panels are fabricated from aluminum and are mounted to the SWF sign structure. Sign type DSF is typically oriented perpendicular to the pedestrian flow and is typically used to provide direction or identify locations.

SECTION D1 Directional Wall Signs

Sign Type DSF



Alternate Layout - With Arrow

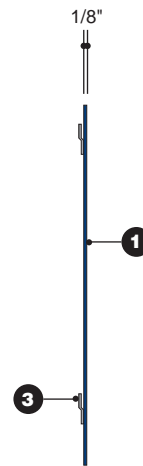


1 Elevation - Sign Type DSF

Scale: 1 1/2" = 1'-0"

Associated Sign Frame:

Sign flag mounts using SWF sign structure.



2 Section - Sign Type DSF

Scale: 1 1/2" = 1'-0"

Description

General

Sign type DSF is an overhead, flag mounted, non-illuminated sign. DSF typically displays one symbol and one line of text.

The sign type DSF sign panels are mounted to the SWF sign structure.

1 Sign Face

The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns.

2 Opaque Graphics

Graphics shall be applied opaque graphic film. The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSF location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSF signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSF sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

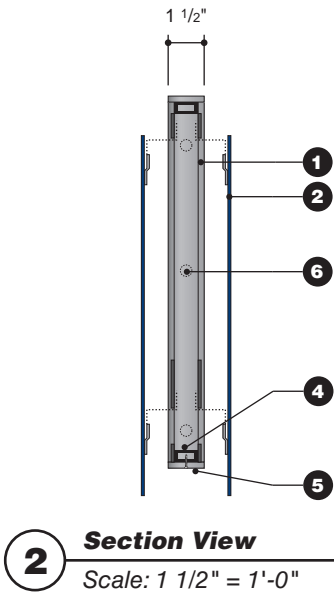
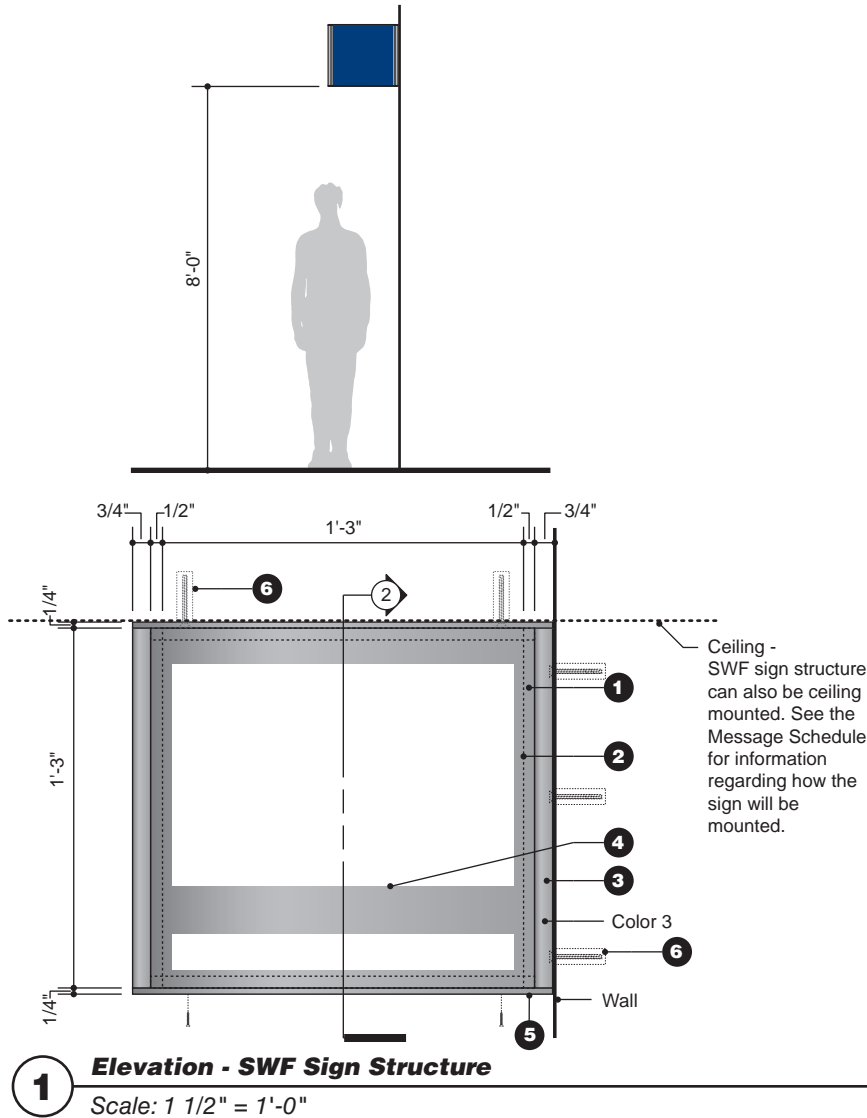
3 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWF sign structure. The mounting hardware shall not be visible after the sign face has been installed. All

mounting hardware shall be vandal-resistant, corrosion-resistant and suitable for use in exterior locations. The mounting hardware shall be properly, safely, securely, and permanently attached to the sign panel. Coordinate the mounting hardware with the sign frame as required.

SECTION D1 Directional Wall Signs

SWF Sign Structure



For Sign Face Layout Information:

See page D1.22 for sign face layout information for sign type DSF.

Description

General

The SWF sign structure is flag mounted and fabricated from aluminum. Sign type DSF sign panels are mounted to sign type SWF. SWF sign structures shall be used at locations where the structure can be mounted to the wall or ceiling using appropriate mechanical anchors and fasteners.

1 Aluminum Reveal Panel

Painted aluminum reveal panels support the removable sign panels. The reveal panels are safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign panels. Coordinate the size and location of the openings in the reveal panels with the sign panel mounting clips so that the clips properly engage with the reveal panels and so that the

sign panels are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign panels and the side bars.

2 DSF Sign Panels

Two sign type DSF sign panels shall be mounted to the SWF sign structure with concealed hardware. The mounting hardware shall allow for removal of the DSF sign panels for maintenance, repairs, and updates. See page D1.21 for panel fabrication information.

3 Side Bars

Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSF sign panels.

4 Internal Framing

Provide concealed internal framing and bracing

as needed for the SWF sign structure to be rigid and structurally sound and to properly and securely support the DSF sign panels which shall be mounted to it.

5 Removable Bottom Bar

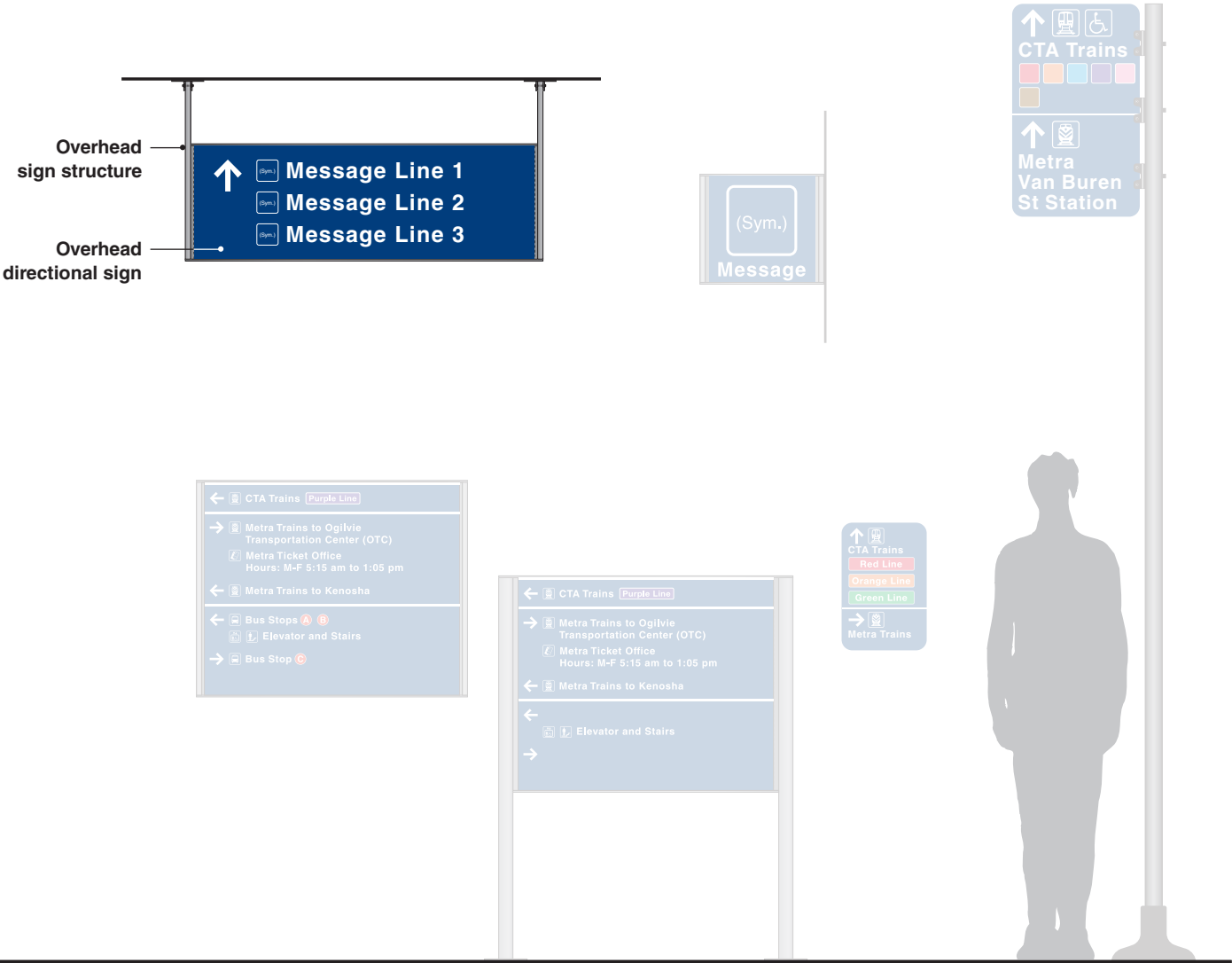
Removable painted aluminum bar shall lock the DSF sign panels in position. The bar shall be secured using flush, vandal-resistant set screws.

6 Mounting Hardware

Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SWF sign structure to various wall or ceiling surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

SECTION D2
Directional Overhead Signs

Section Introduction



Description

General

Section D2 general reference.



SECTION D2 Directional Overhead Signs

Sign Type Overview



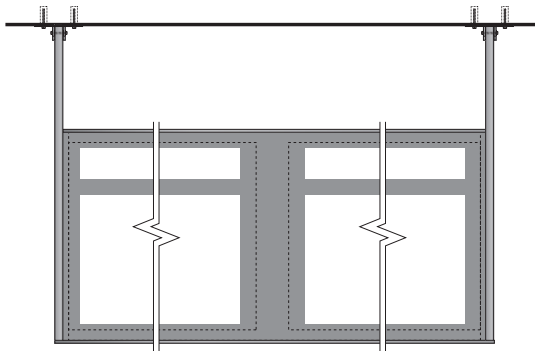
Sign Type DSO Directional Overhead Signs

The DSO series sign types are overhead mounted signs that provide directional information.

The DSO sign types can be mounted to ceilings using SON or SOC sign structures, or to soffits using SOS sign structures.

DSOI are illuminated DSO signs.

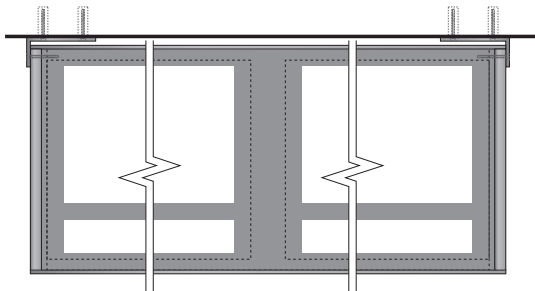
SON, SOC, and SOS sign structures are described in section D2.



SON Sign Structure Pendant Mounted Sign Structure

The SON sign structure's size conforms to the size of the DSO sign panels which it holds.

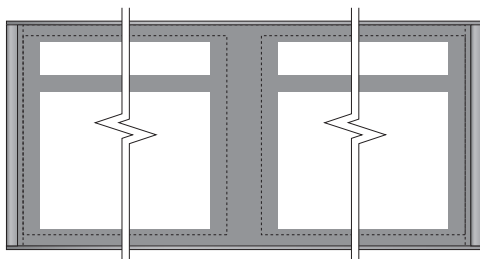
The DSO sign panels are described in Section D2.



SOC Sign Structure Ceiling Mounted Sign Structure

The SOC sign structure's size conforms to the size of the DSO sign panels which it holds.

The DSO sign panels are described in Section D2.



SOS Sign Structure Soffit Mounted Sign Structure

The SOS sign structure's size conforms to the size of the DSO sign panels which it holds.

The DSO sign panels are described in Section D2.

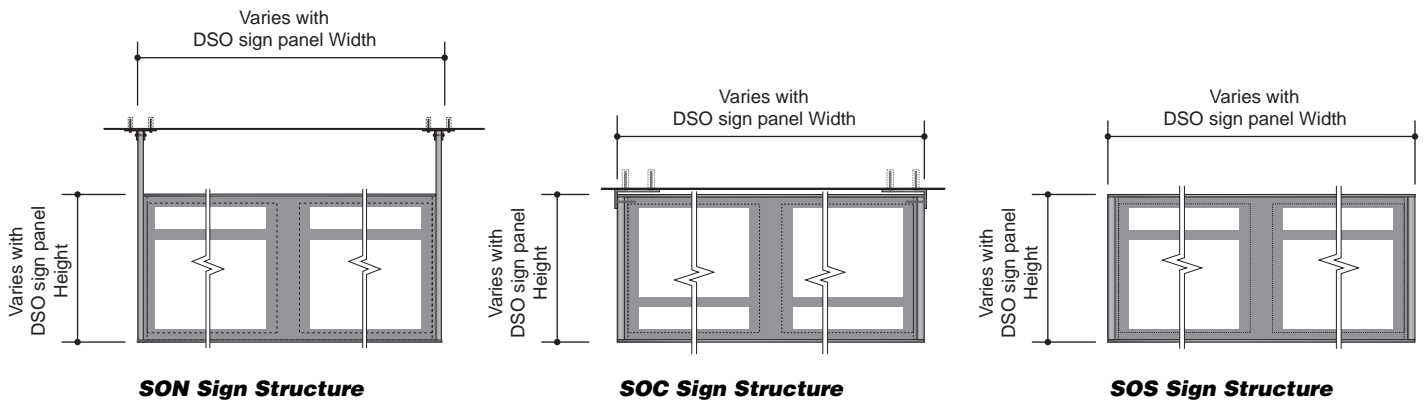
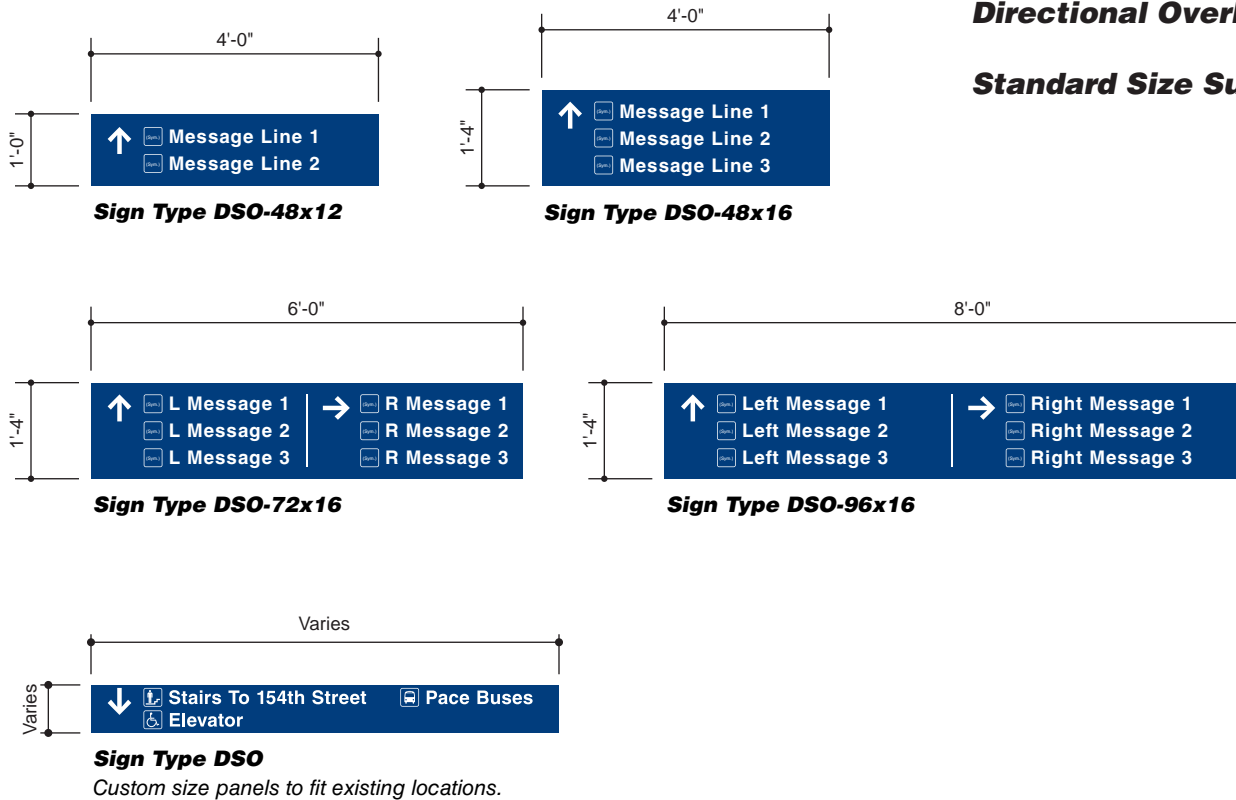
Description

General

The DSO series sign types are ceiling or soffit mounted overhead signs and are used to provide directional information. Typically, the DSO series sign types shall be mounted to SON, SOC, or SOS sign structures.

SECTION D2 Directional Overhead Signs

Standard Size Summary



Description

General

The DSO series sign panels are available in a variety of sizes. DSO sign panels shall typically be mounted to SON, SOC, or SOS sign structures. DSO sign panels can also be fitted to existing overhead signs. The SON, SOC, and SOS sign structures vary in size to

accommodate the DSO sign panels. To coordinate with site conditions and to maintain design intent, sign fabrication and mounting as outlined in these Guidelines may need to be revised.

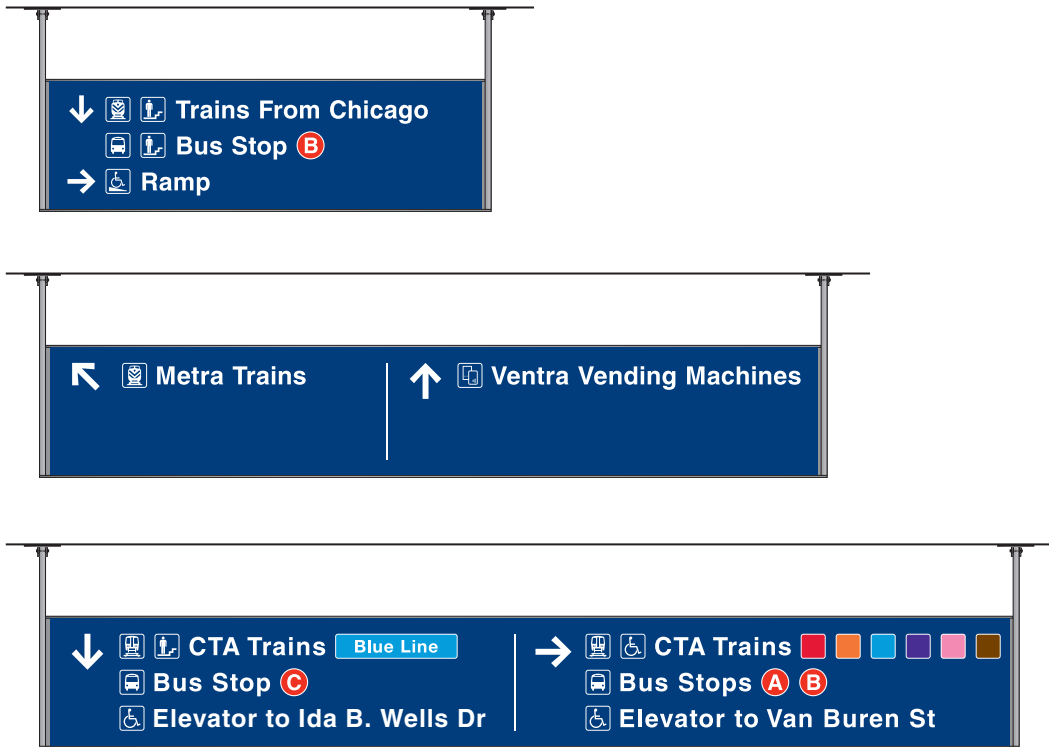
See the Technical Specifications for additional

information and requirements.



SECTION D2 Directional Overhead Signs

Design and Layout Notes



1

Elevation - Example Sign Type DSO Layouts

Scale: 1/2" = 1'-0"

Description

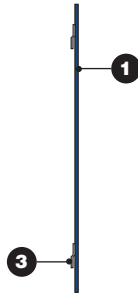
General Design and Layout Information – DSO Signs

- DSO sign size shall be coordinated with site requirements and message content. Select a DSO sign type based on the quantity of information to be displayed and the architectural conditions at the installation location.
- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.
- DSO signs with 2 1/4" message typography must be mounted so that the baseline of the first (top) message line is not above 10'-0" above the finish floor and there is an unobstructed horizontal viewing distance of 17'-0" or less. For signs where the baseline of first message line is higher than 10'-0" above the finish floor or where the horizontal viewing distance is greater than 17'-0", the sign face layout must be adjusted to provide message typography that meets the ADA Guidelines for Visual Character Height.
- Messages are typically ordered as per the following message hierarchy: 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.
- Typically, DSO signs display messages in groups consisting of one arrow and up to three lines of text with symbols. Message typography is flush left, and arrows are always placed to the left of the symbols and messages.
- On signs with more than one arrow for a single group of messages, the messages are typically arranged first by the message hierarchy and second with the arrows ordered "up", "left", "right", and "down/behind".
- When bus stop symbols are used on a sign, the bus stop messages and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order.
- DSO signs must not be placed in locations that are inappropriate.
- DSO signs must not be placed in locations where they may confuse or distract drivers or cyclists.



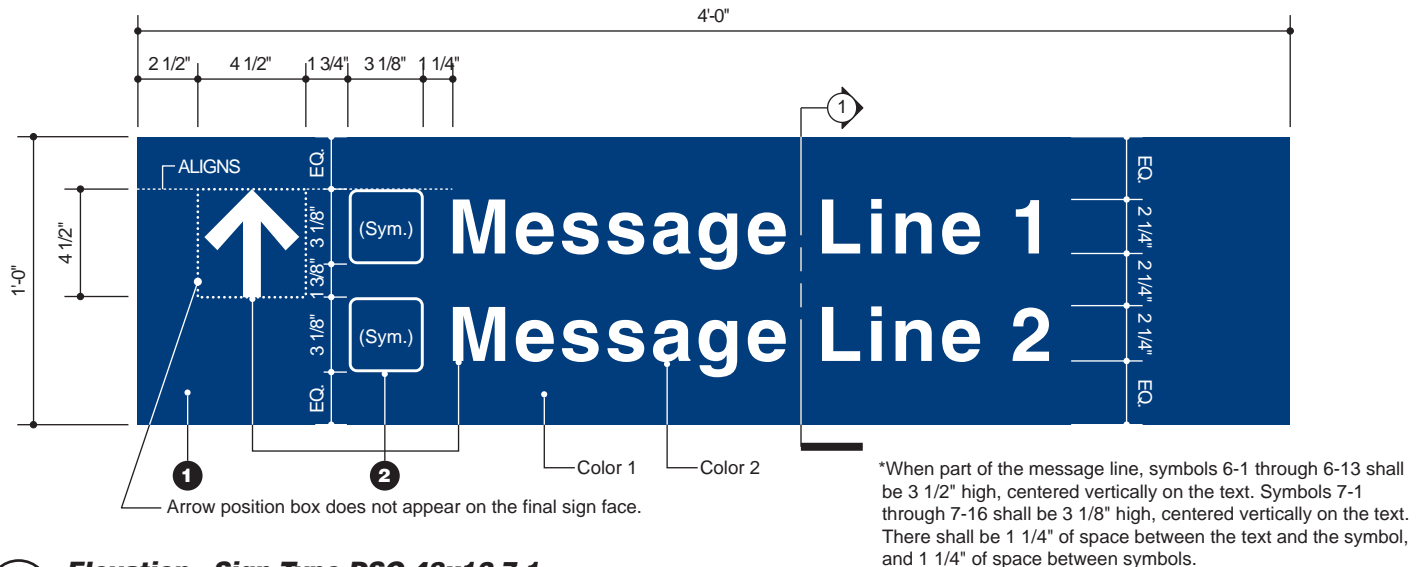
SECTION D2 Directional Overhead Signs

Sign Type DSO-48x12



1 Section - Sign Type DSO-48x12.7.1

Scale: 1 1/2" = 1'-0"



2 Elevation - Sign Type DSO-48x12.7.1

Scale: 1 1/2" = 1'-0"

Associated Sign Structures:

For ceiling mounted locations, use SON or SOC sign structures. See page D2.14 and D2.15 for additional information.
For soffit or wall mounted locations, use SOS sign structure. See page D2.16 for additional information.

Description

General

Sign type DSO-48x12.7.1 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays one arrow and up to two lines of symbols and message copy.

1 Sign Face

The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns. Each sign face has graphics on one side. A double-sided sign will require two sign faces.

2 Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be

formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminate shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

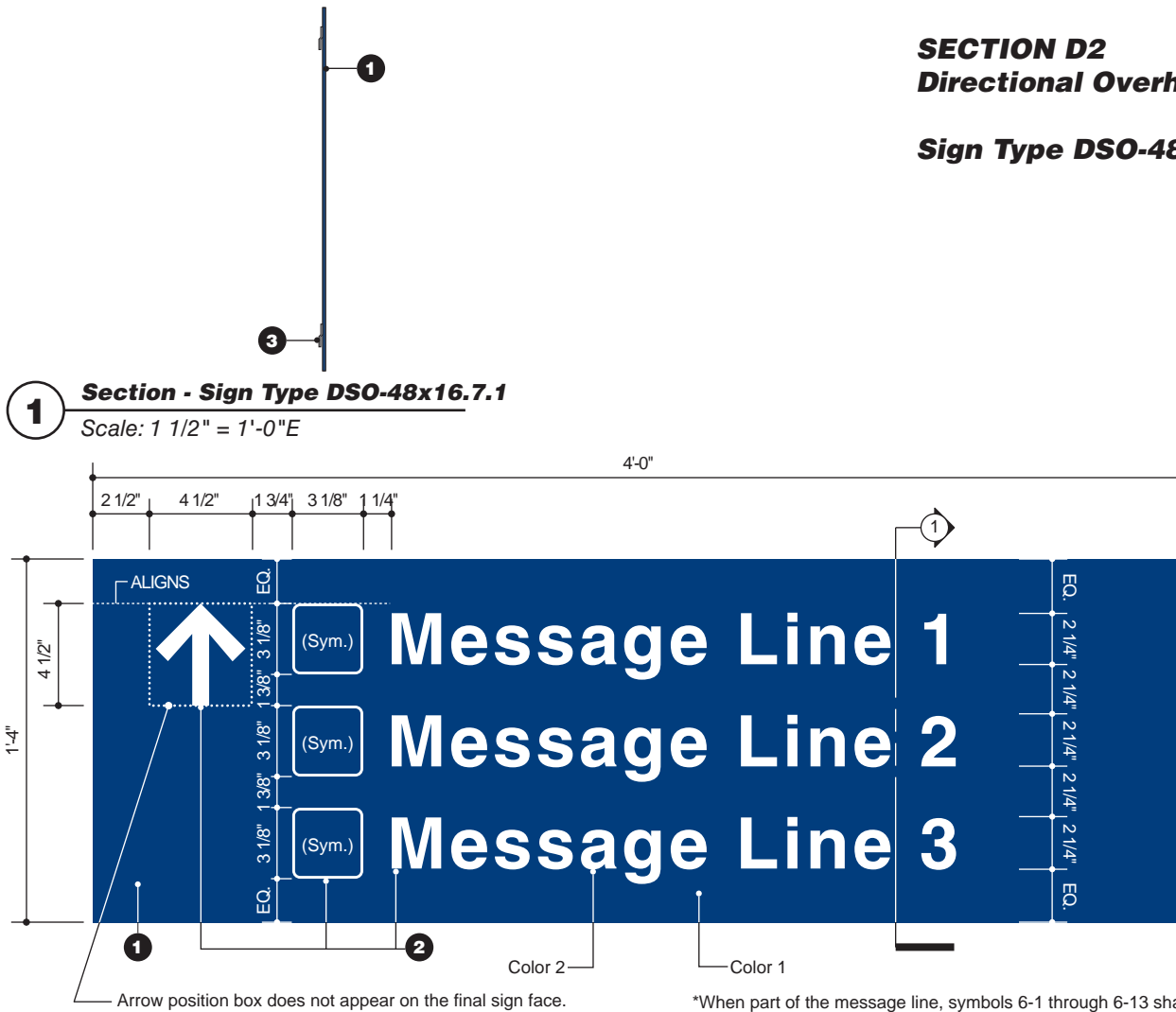
All layouts need to be submitted to the RTA for review prior to fabrication.

3 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

SECTION D2 Directional Overhead Signs

Sign Type DSO-48x16



Single Arrow Layout

*When part of the message line, symbols 6-1 through 6-13 shall be 3 1/2" high, centered vertically on the text. Symbols 7-16 shall be 3 1/8" high, centered vertically on the text. There shall be 1 1/4" of space between the text and the symbol, and 1 1/4" of space between symbols.

2 Elevation - Sign Type DSO-48x16.7.1

Scale: 1 1/2" = 1'-0"

Associated Sign Structures:

For ceiling mounted locations, use SON or SOC sign structures. See page D2.14 and D2.15 for additional information.
For soffit or wall mounted locations, use SOS sign structure. See page D2.16 for additional information.

Description

General

Sign type DSO-48x16.7.1 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays one arrow and up to three lines of symbols and message copy.

1 Sign Face

The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns. Each sign face has graphics on one side. A double-sided sign will require two sign faces.

2 Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated,

UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminate shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or,

when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

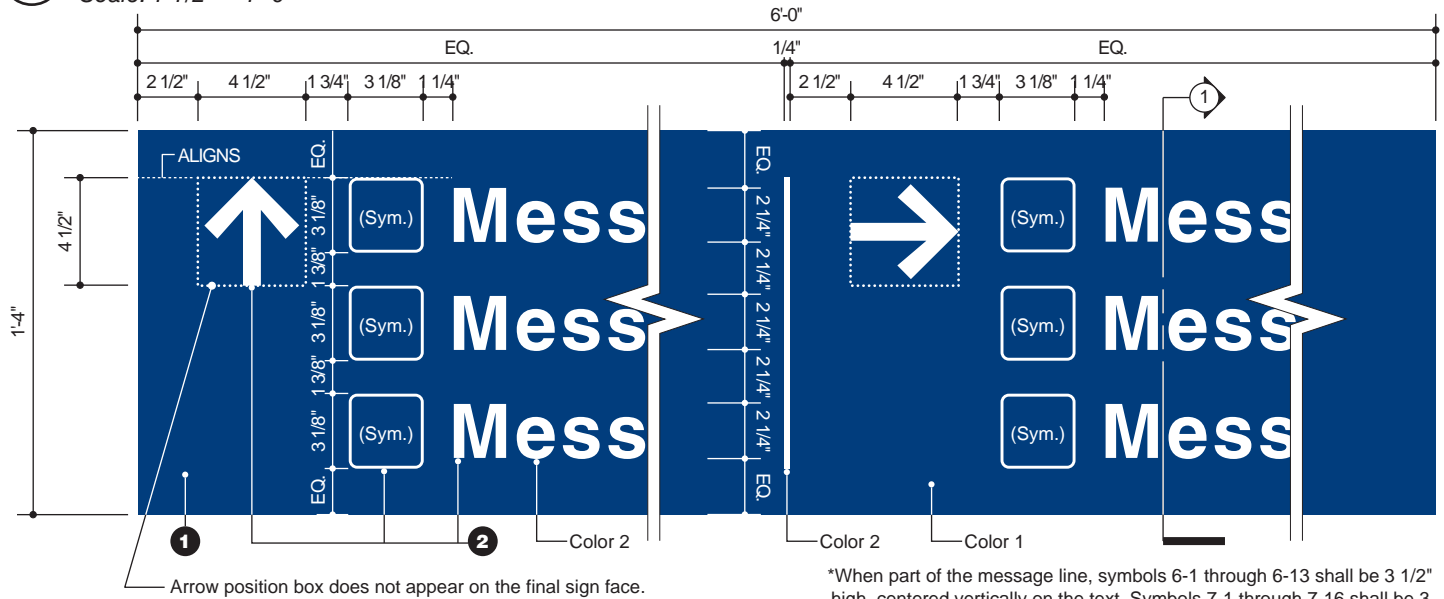
3 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

SECTION D2 Directional Overhead Signs

Sign Type DSO-72x16

1 Section - Sign Type DSO-72x16.7.1 Scale: 1 1/2" = 1'-0"



1 Elevation - Sign Type DSO-72x16.7.1 Scale: 1 1/2" = 1'-0"

Associated Sign Structures:

For ceiling mounted locations, use SON or SOC sign structures. See page D2.14 and D2.15 for additional information.

For soffit or wall mounted locations, use SOS sign structure. See page D2.16 for additional information.

Description

General

Sign type DSO-72x16.7.1 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays up to two arrows with up to six lines of symbols and message copy.

1 Sign Face

The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns. Each sign face has graphics on one side. A double-sided sign will require two sign faces.

2 Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated,

UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminate shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine

the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

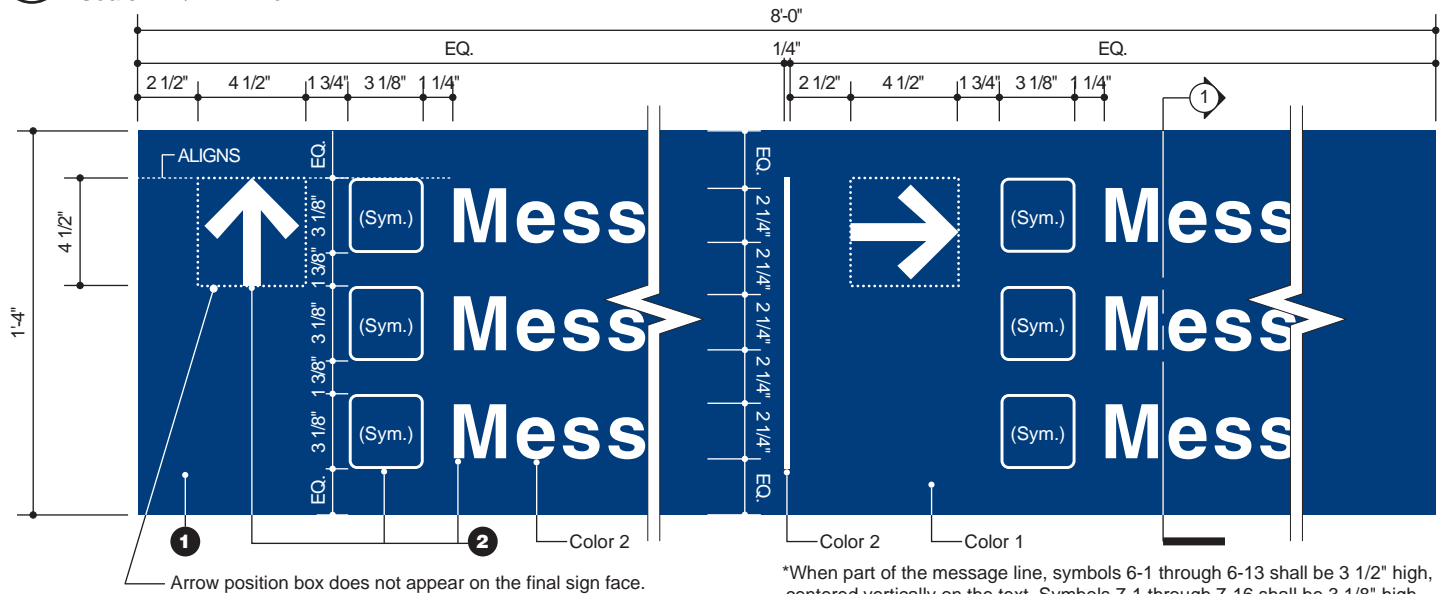
3 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

SECTION D2 Directional Overhead Signs

Sign Type DSO-96x16

1 Section - Sign Type DSO-96x16.7.1 Scale: 1 1/2" = 1'-0"



1 Elevation - Sign Type DSO-96x16.7.1 Scale: 1 1/2" = 1'-0"

Associated Sign Structures:

For ceiling mounted locations, use SON or SOC sign structures. See page D2.14 and D2.15 for additional information.
For soffit or wall mounted locations, use SOS sign structure. See page D2.16 for additional information.

Description

General

Sign type DSO-96x16.7.1 is an overhead mounted, non-illuminated directional sign. Typically, each sign face displays up to two arrows with up to six lines of symbols and message copy.

1 Sign Face

The sign face shall be a seamless 1/8" thick aluminum panel with an opaque painted finish on the panel face and returns. Each sign face has graphics on one side. A double-sided sign will require two sign faces.

2 Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated,

UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminate that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminate shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The dotted arrow position box is shown for reference only and shall not appear on the final sign faces.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine

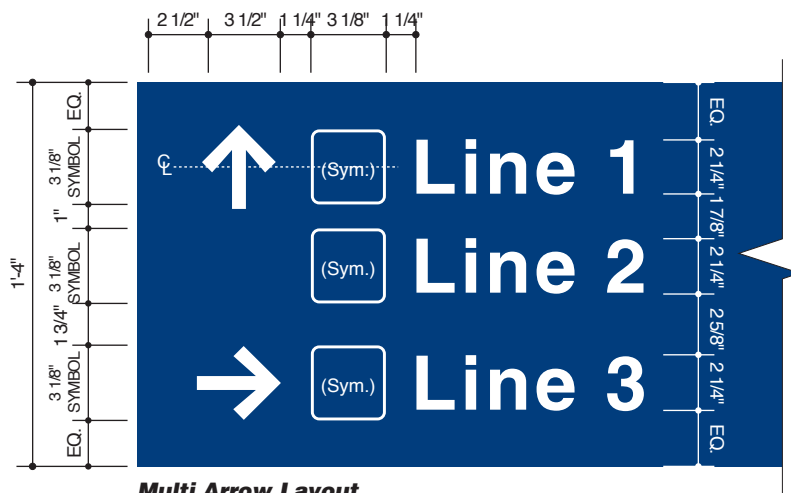
the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

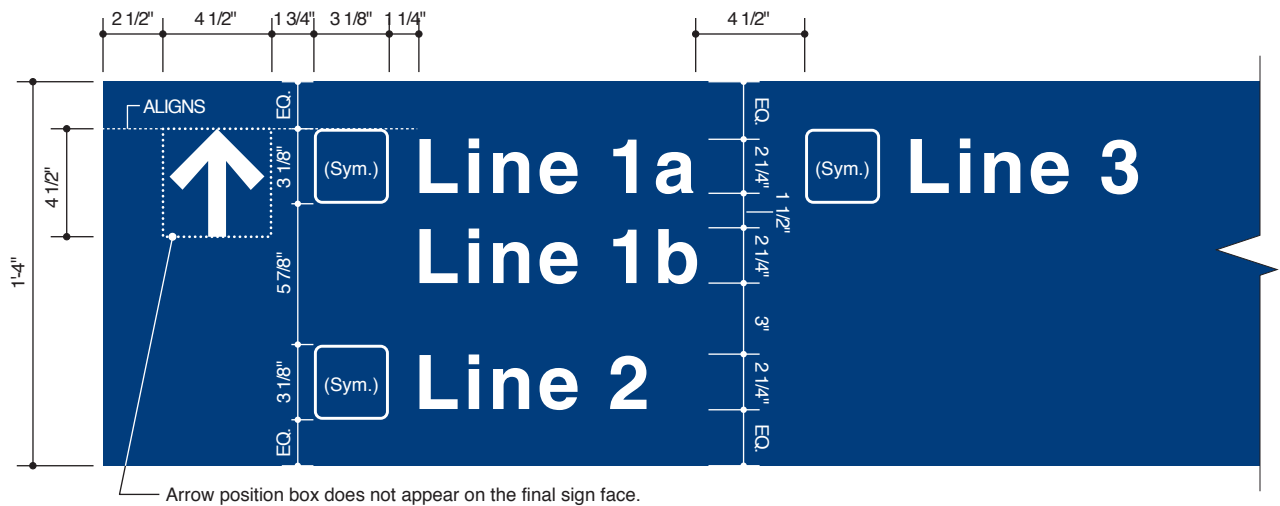
All layouts need to be submitted to the RTA for review prior to fabrication.

3 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.



Multi Arrow Layout



Layout for Single Multi-Line Message

SECTION D2 Directional Overhead Signs

Layout Alternates DSO Sign Types

*When part of the message line, symbols 6-1 through 6-13 shall be 3 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 3 1/8" high, centered vertically on the text. There shall be 1 1/4" of space between the text and the symbol, and 1 1/4" of space between symbols.

1 Elevation - Typ. Alt. Layouts

Scale: 1 1/2" = 1'-0"

Description

General

DSO signs are overhead mounted directionals. Typically, DSO signs display messages in groups consisting of one arrow and up to three lines of symbols and message copy.

Shown are guidelines for alternate layouts that may be applied to DSO signs that have more than one arrow for a single group of messages, DSO signs that have a message that may require more than one line, or DSO signs with more than one column of messages.

The alternate layouts shown may be applied to DSO-48x12.7.1, DSO-48x16.7.1, DSO-72x16.7.1,

DSO-96x16.7.1, and DSO-96x14.11.1.

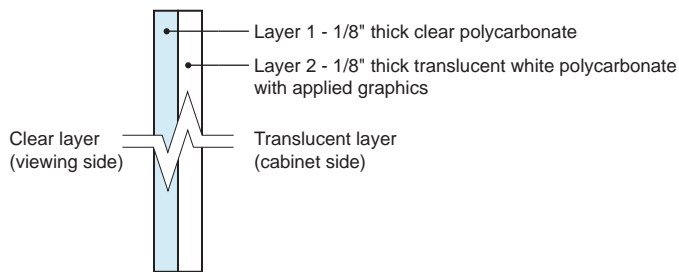
A similar layout approach may be applied to sign types DSO-110x22.11.1, DSO (material type 7), and DSO (material type 10). For these sign types, the dimensions shown for arrows, line spacing, margins, etc. may need to be revised.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.



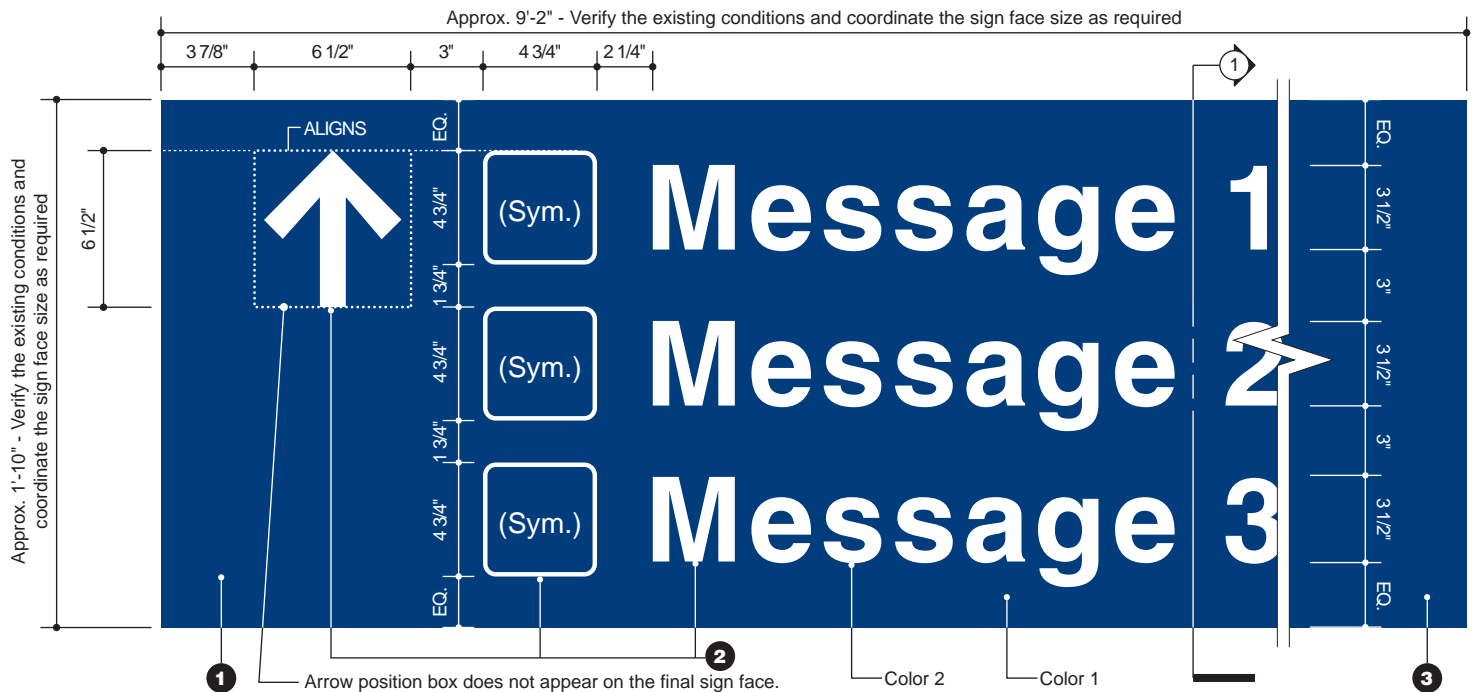
SECTION D2 Directional Overhead Signs

Custom Sizes Sign Type DSO (Approximately 110" x 22", Material Type 11)

1

Section - Sign Type DSO-110x22.11.1

Scale: N.T.S.



2

Elevation - Sign Type DSO-110x22.11.1

Scale: 1 1/2" = 1'-0"

Associated Sign Structure:

This DSO sign type is a new custom sized sign face that is fitted into existing internally illuminated overhead signs.

*When part of the message line, symbols 6-1 through 6-13 shall be 5 1/2" high, centered vertically on the text. Symbols 7-1 through 7-16 shall be 4 3/4" high, centered vertically on the text. There shall be 2 1/4" of space between the text and the symbol, and 2 1/4" of space between symbols.

Description

General

This DSO sign type is a new custom sized sign face that is fitted into existing internally illuminated overhead signs. The typical layout shown shall be used at locations where the baseline of the first (top) message line is above 10'-0" above the finished floor and there is an unobstructed horizontal viewing distance of 25'-0" or less. A typical application for this sign type is to replace the sign faces in certain existing RTA information sign cabinets.

At each location, field verify the existing dimensions, conditions, mounting height, and the construction of the existing sign cabinet where the new sign face is to be fitted. Provide the RTA with documentation of existing dimensions and conditions and notify the RTA of any conditions that might affect the sign's function or appearance. Depending on the existing conditions, the graphic layout may need to be revised from the typical standard shown. Messages on new signs shall conform with applicable ADA guidelines for Visual Characters. Coordinate the size

and thickness of the new sign face with the existing sign cabinet as required for the new sign face to fit correctly and function properly. When the new sign face is ready to be installed, remove the existing sign face that is to be replaced. If the new sign face is to be installed in an existing RTA information sign that includes a dynamic display, confirm with the RTA if the display is to be removed or retained.

1 Sign Face

The sign face shall consist of two layers. Layer 1 shall be 1/8" thick clear polycarbonate. Layer 2 shall be 1/8" thick translucent white polycarbonate. The clear polycarbonate is the outermost panel. It is placed in front of the translucent panel. The graphics are applied to the face of the translucent white polycarbonate. The panels are to be installed so that the clear panel may be removed and replaced without having to also replace the translucent panel.

2 Translucent Graphics

White text, symbols, arrows and other white graphics shall be the translucent white polycarbonate. Translucent colors, for example the red bus boarding area symbol background, shall be translucent graphic films applied to the face of the translucent polycarbonate panel. The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content. Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics.

All layouts need to be submitted to the RTA for review prior to fabrication.

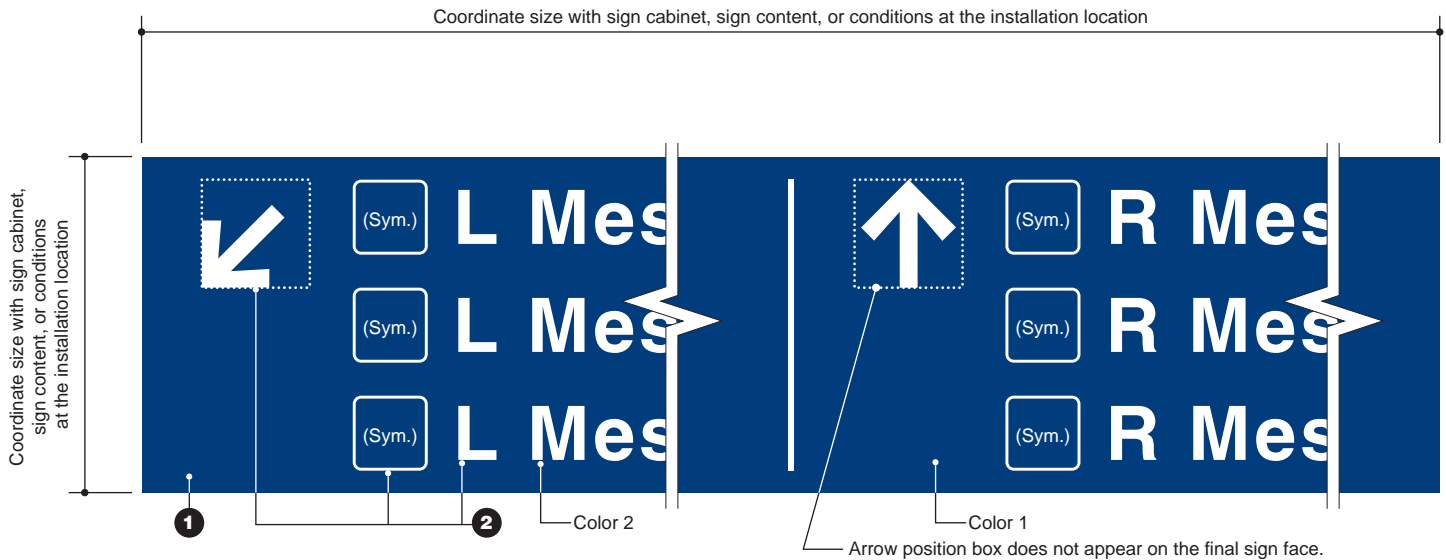
3 Opaque Background

The sign face background shall be completely opaque using silkscreen or mask and spray methods.



SECTION D2 Directional Overhead Signs

Custom Sizes Sign Type DSO (Variable Size, Material Type 7)



1 Elevation - Sign Type DSO (Material Type 7)

Scale: 1 1/2" = 1'-0"

Associated Sign Structure:

This DSO sign type is a new custom sized sign face that is fitted into existing non-internally illuminated overhead signs; or to new, custom sized non-illuminated overhead sign structures.

Description

General

This DSO sign type may be used at locations where the standard sign type DSO sizes are inappropriate and a custom sized overhead sign is required.

At each location, field verify the existing dimensions, conditions, and mounting height. If the new sign face is to be fitted into an existing sign, field verify the construction of the existing sign cabinet where the new sign face is to be fitted. Provide the RTA with documentation of existing dimensions and conditions and notify the RTA of any conditions that might affect the sign's function or appearance. Messages on new signs shall conform with applicable ADA guidelines for Visual Characters. Coordinate the size and thickness of new sign faces with existing sign structures as required for the new faces to fit correctly and function properly. When the new sign face is ready to be installed, remove the existing sign face that is to be replaced. Coordinate the size of new signs with the site conditions.

1 Sign Face

The sign face shall be a seamless aluminum panel with an opaque painted finish on the panel face and returns. Each sign face has graphics on one side. A double-sided sign will require two sign faces.

2 Digitally Printed Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlaminates that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminates shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine the required content.

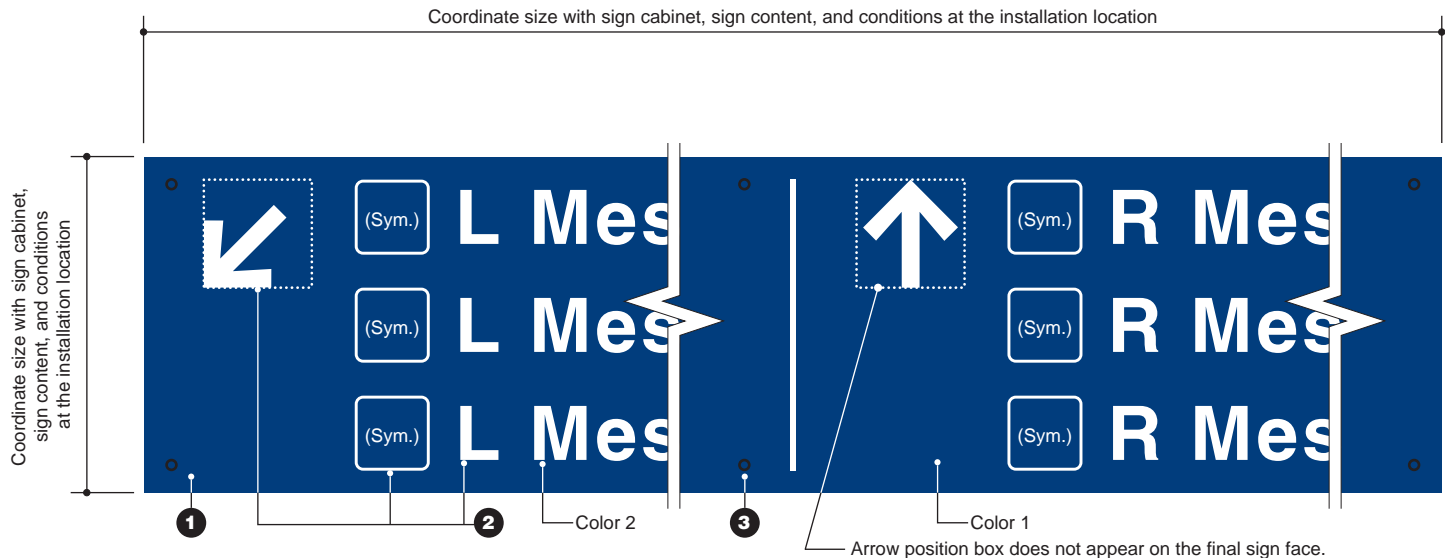
Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics. The new sign face layout shall be based on the layout guidelines established for other DSO signs, the required content, and the existing site dimensions.

All layouts need to be submitted to the RTA for review prior to fabrication.

Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign structure as required.

**Custom Sizes
Sign Type DSO
(Variable Size,
Material Type 10)**



Elevation - Sign Type DSO (Material Type 10)

Scale: 1 1/2" = 1'-0"

Associated Sign Structure:

This DSO sign type is a new, custom sized, non-internally illuminated sign face that is mounted to existing signs.

Description

General

The new DSO sign faces are installed directly to existing wall mounted or ceiling hung signs at locations where it would not be feasible to remove the existing signs or sign faces.

At each existing sign location, field verify the existing dimensions, conditions, mounting height, and construction of the existing sign where the new sign face is to be mounted. Provide the RTA with documentation of existing dimensions and conditions and notify the RTA of any conditions that might affect the sign's function or appearance. Messages on new signs shall conform with applicable ADA guidelines for Visual Characters. Coordinate the size of the new sign faces with the existing signs and site conditions as required for the new faces to fit correctly and function properly. The existing sign face should be completely covered by the new sign face.

1 Sign Face

The sign face shall be a 2mm Dibond or

equivalent aluminum composite material with an opaque painted finish on the panel face and returns. The sign face has graphics on one side.

2 Digitally Printed Opaque Graphics

Graphics shall be digitally printed at high-resolution directly to an exterior-grade, premium cast white graphic film using custom formulated, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective anti-graffiti overlamine that is compatible with the graphic film and the printed graphics. The printed graphic film and overlamine shall be applied to cover the entire sign face and trimmed flush to the edges of the sign face panel.

The font used for the messages shall be Helvetica LT Std Bold.

See the Message Schedule for the correct messages for each sign type DSO location, or, when directed to do so by the RTA, determine

the required content.

Digital art for DSO signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSO sign face graphics. The new sign face layout shall be based on the layout guidelines established for other DSO signs, the required content, and the existing site dimensions. Messages on new signs shall conform with applicable ADA guidelines for Visual Characters.

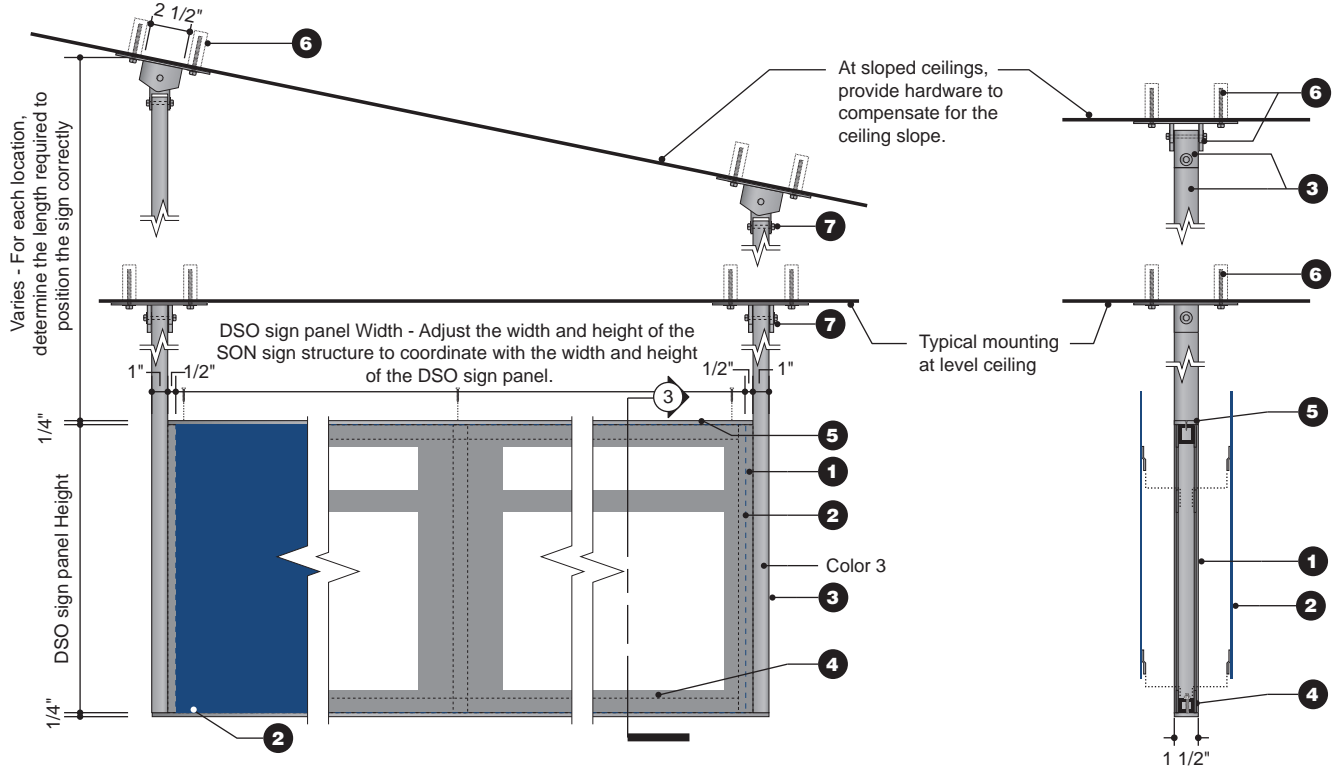
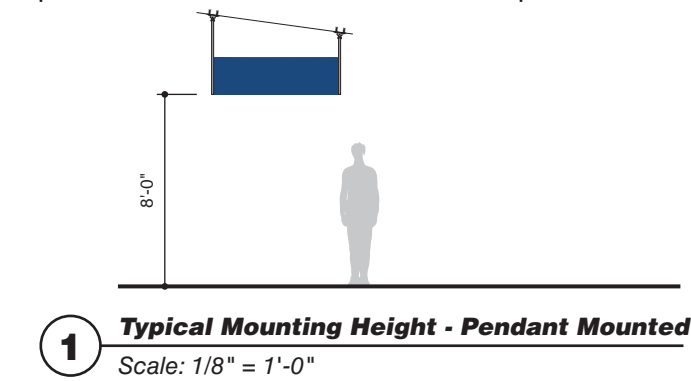
All layouts need to be submitted to the RTA for review prior to fabrication.

3 Mounting Hardware

Provide mounting hardware as required to properly, safely, and securely mount the sign panel to the sign frame. Mounting hardware that is visible on the new sign face shall be painted to match the background color. All mounting hardware shall be vandal-resistant and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.

SECTION D2 Directional Overhead Signs

SON Pendant Mounted Sign Structure



For Sign Face Layout Information: See pages D2.4 - D2.13 for sign type DSO sign face layout information.

Description

General

The SON is an non-illuminated sign structure that is ceiling mounted and fabricated from aluminum. Sign type DSO sign face panels are mounted to the SON sign structure.

1 Aluminum Reveal Panel

Painted aluminum reveal panels support the removable sign faces. The reveal panels are safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign faces. Coordinate the size and location of the openings in the reveal panels with the sign face mounting clips so that the clips properly engage with the reveal panels and so that the sign faces are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign faces and the end bars.

2 DSO Sign Face Panels

Sign type DSO sign face panels shall be mounted to both sides of the SON sign structure with concealed mounting clips. If messages are to appear on only one side, a blank sign face panel must be supplied for the opposite side. The sign face panels shall be removable for maintenance, repairs, and updates.

3 Ceiling Mount Support Tubes

Provide painted aluminum tubes to properly and securely support the SON sign structure and the DSO sign panels mounted to it.

4 Internal Framing

Provide concealed internal framing and bracing as needed for the SON sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign face panels which shall be mounted to it.

5 Removable Top Bar

A removable painted aluminum bar shall lock the DSO sign face panels in position. The bar shall be mounted using flush, vandal-resistant hardware.

6 Sign Mounting Hardware

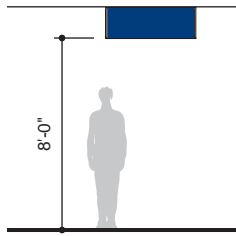
Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SON sign structure to various ceiling surfaces or at other overhead mounting locations. Provide any additional structural elements or materials needed to properly and securely support the sign. All sign hardware and components shall be vandal-resistant and suitable for exterior use.

7 Pivot Mounting Hardware

Provide pivot mounting hardware that shall hold the sign firmly but shall also allow the sign to give if struck.

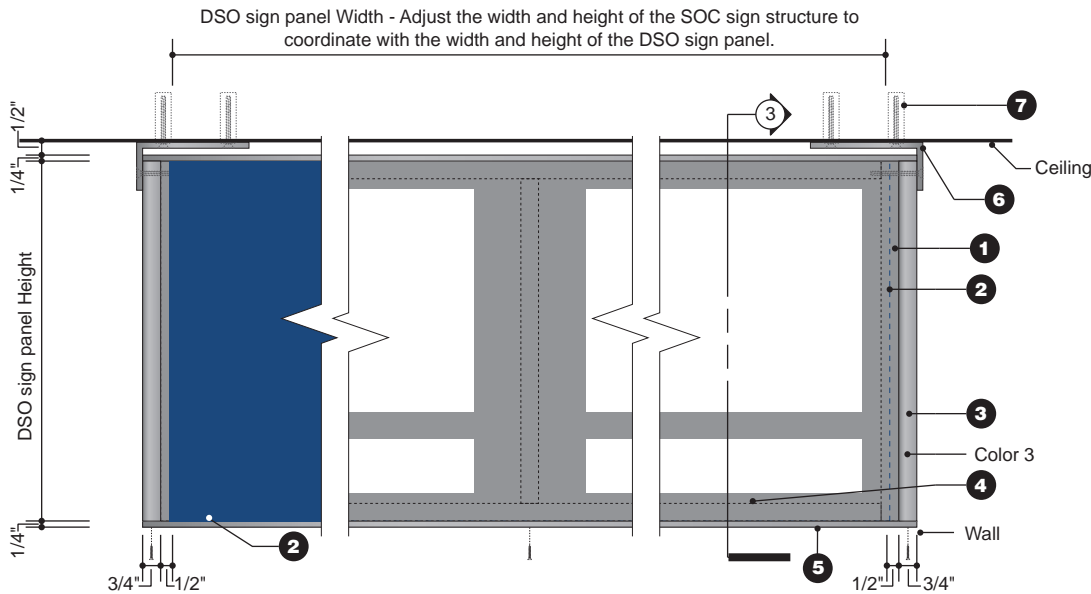
SECTION D2 Directional Overhead Signs

SOC Ceiling Mounted Sign Structure



1 Typical Mounting Height - Ceiling Mounted

Scale: 1/8" = 1'-0"

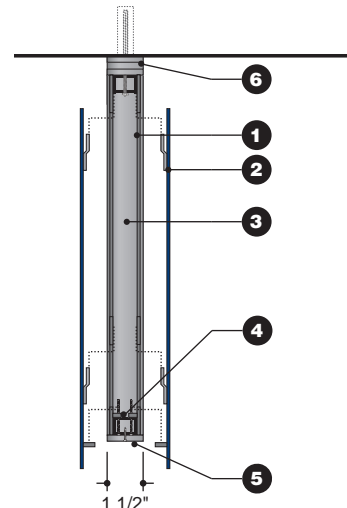


2 Elevation - SOC Sign Structure

Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:

See pages D2.4 - D2.13 for sign type DSO sign face layout information.



3 Section View

Scale: 1 1/2" = 1'-0"

Description

General

The SOC sign structure is ceiling mounted and fabricated from aluminum. Sign type DSO sign face panels are mounted to the SON sign structure.

1 Aluminum Reveal Panel

Painted aluminum reveal panels support the removable sign faces. The reveal panels are safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign faces. Coordinate the size and location of the openings in the reveal panels with the sign face mounting clips so that the clips properly engage with the reveal panels and so that the sign faces are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign faces and the end bars.

2 DSO Sign Face Panels

Sign type DSO sign face panels shall be mounted to both sides of the SOC sign structure with concealed mounting clips. If messages are to appear on only one side, a blank sign face panel must be supplied for the opposite side. The sign face panels shall be removable for maintenance, repairs, and updates.

3 Side Bars

Provide painted aluminum side bars at each end of the sign frame. The face of the side bars shall be flush with the face of the DSO sign face panels.

4 Internal Framing

Provide concealed internal framing and bracing as needed for the SOC sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign face panels which shall be mounted to it.

5 Removable Bottom Bar

A removable painted aluminum bar shall lock the DSO sign panels in position. The bar shall be secured using flush, vandal-resistant hardware. Concealed screws and rivet nuts shall also secure the sign face to the sign's internal framing.

6 Mounting Bracket

Provide painted aluminum mounting brackets that shall properly, safely, and securely support the sign. The mounting brackets shall hold the sign firmly but shall also allow the sign to give if struck.

7 Ceiling Mounting Hardware

Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SOC sign structure to various ceiling surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use.

Ceiling

Soffit



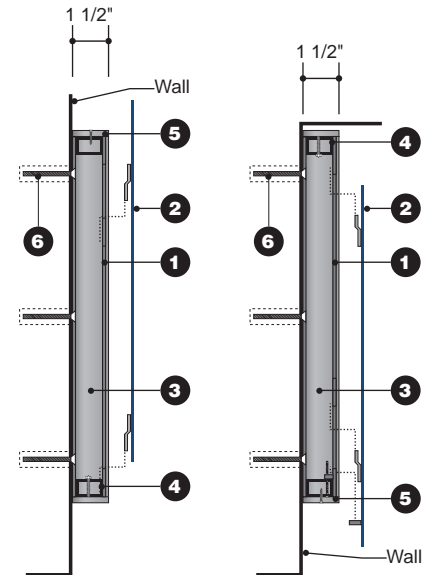
3" - Subject to conditions of specific sign location

SECTION D2 Directional Overhead Signs

SOS Soffit Mounted Sign Structure

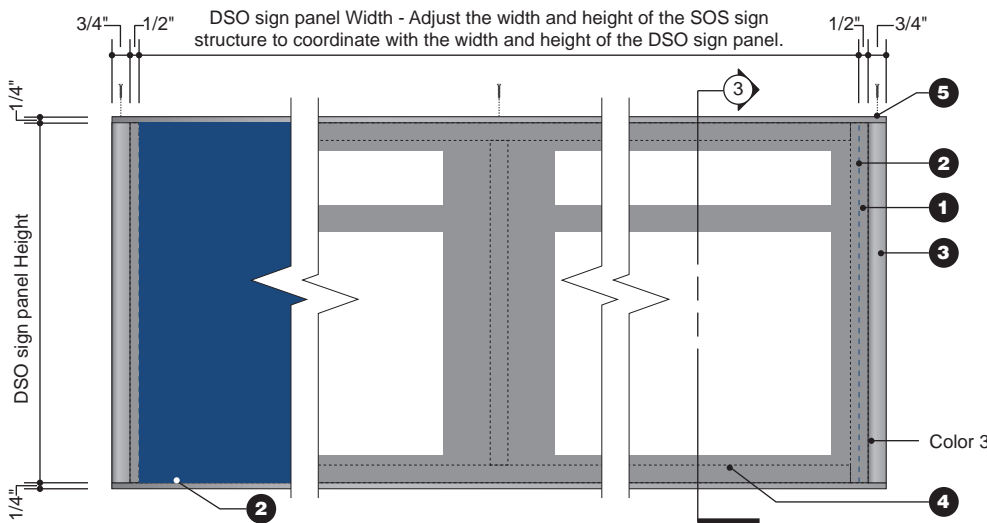
Special mounting condition with no space above sign to remove top bar. SOS sign structure shall be designed to allow bottom bar to be removed instead.

Typical mounting to wall with space above sign to remove top bar



3 Section View
Scale: 1 1/2" = 1'-0"

1 Typical Mounting Height - Soffit Mounted
Scale: 3/16" = 1'-0"



2 Elevation - SOS Sign Structure for Soffit Mounting
Scale: 1 1/2" = 1'-0"

For Sign Face Layout Information:

See pages D2.4 - D2.13 for sign type DSO sign face layout information.

Description

General

The SOS sign structure is wall mounted and fabricated from aluminum. A sign type DSO sign face panel is mounted to the SOS sign structure.

1 Aluminum Reveal Panel

Painted aluminum reveal panel supports the removable sign face. The reveal panel is safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panel. The reveal panel shall have laser cut openings to accept the mounting clips on the back of the sign face. Coordinate the size and location of the openings in the reveal panel with the sign face mounting clips, and if the sign face is removed from the top or bottom, so that the clips properly engage with the reveal panel and so that the sign face is safely, securely, and properly held in the correct position. Portions of the reveal panel will be visible between the sign face and the side bars.

2 DSO Sign Face Panel

A sign type DSO series sign panel shall be mounted to the SOS sign structure with concealed mounting clips. The SOS sign structure and the DSO sign panel mounting hardware shall allow for removal of the DSO sign face panel for maintenance, repairs, and updates.

3 Side Bars

Provide painted aluminum side bars at each end of the SOS sign structure. The face of the side bars shall be flush with the face of the DSO sign face panel.

4 Internal Framing

Provide concealed internal framing and bracing as needed for the SOS sign structure to be rigid and structurally sound and to properly, safely, and securely support the DSO sign face panel which shall be mounted to it.

5 Removable Top or Bottom Bar

Removable painted aluminum bar locks the DSO sign face panel in position. The bar shall be secured using flush, vandal-resistant hardware. The face of the bar shall be flush with the face of the DSO sign face panel. Typically, the top bar will be removable to allow the sign panel to be removed by sliding the panel up. In certain locations where there is not space available to remove the top bar, the bottom bar will be removable, and the sign panel will slide down to be removed. Additional screws and rivet nuts will be used to hold the sign face panel in place when the bottom bar is removed.

6 Concealed Wall Mounting

Provide all mounting hardware and materials as needed to properly, safely, and securely mount the SOS sign structure to various wall surfaces. Provide any additional structural elements or materials needed to properly and securely support the sign. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. Mounting hardware shall not be visible.

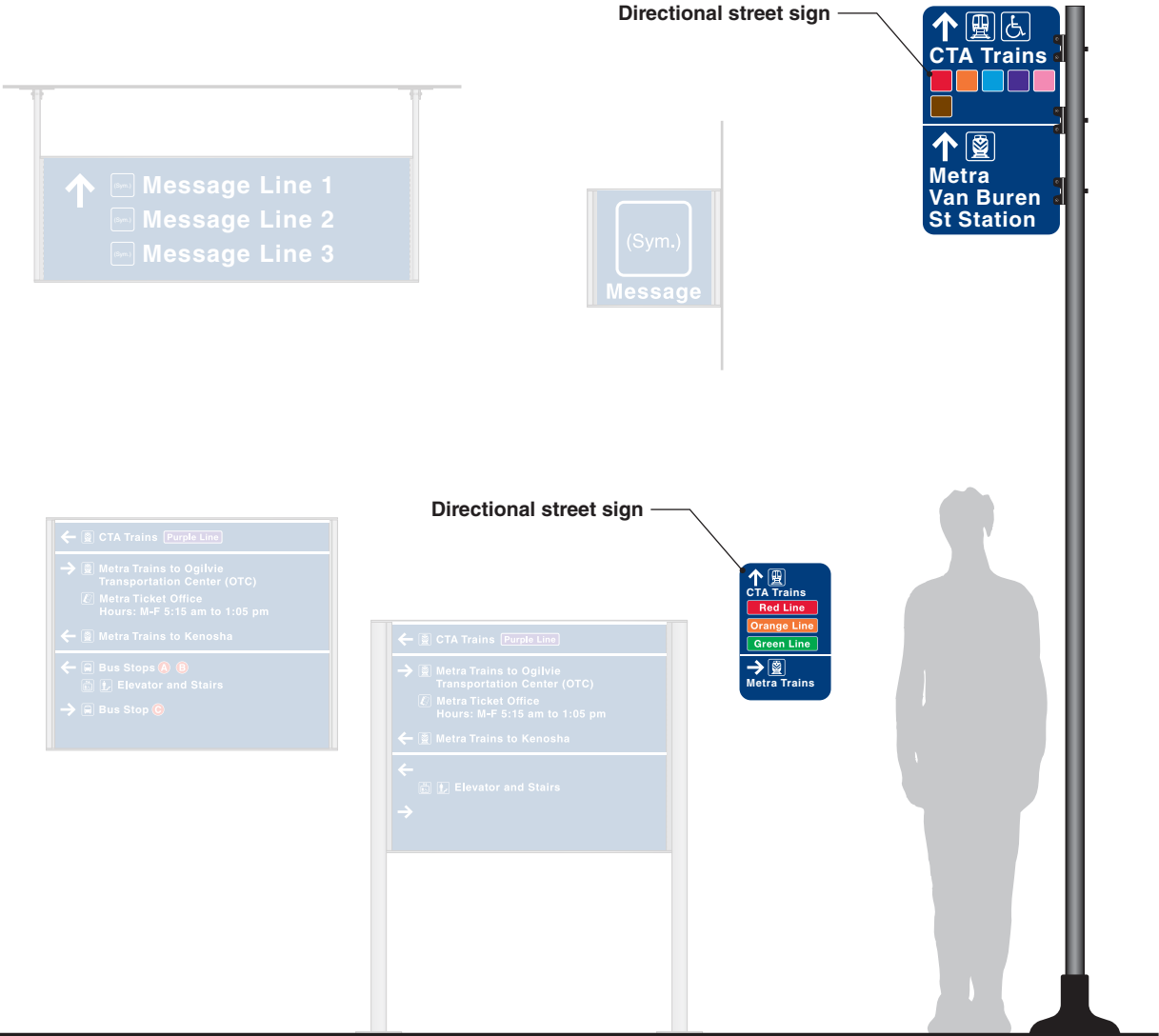


RTA Interagency Signage
Standards Manual

Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section D2
D2.16

SECTION D3
Directional Street Signs
Section Introduction



Description

General

Section D3 general reference.



SECTION D3 Directional Street Signs

Sign Type DSS Overview



Sign Type DSS Directional Street Signs

The DSS sign types provide directional information along public sidewalks.

The DSS sign types are mounted to new sign posts or to existing sign posts, street lights, walls, or other existing structures.

Description

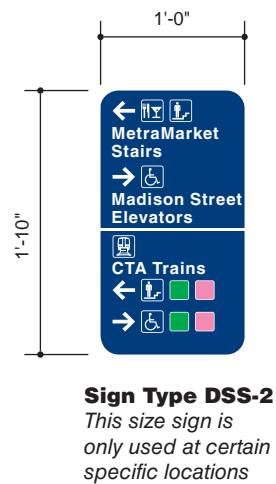
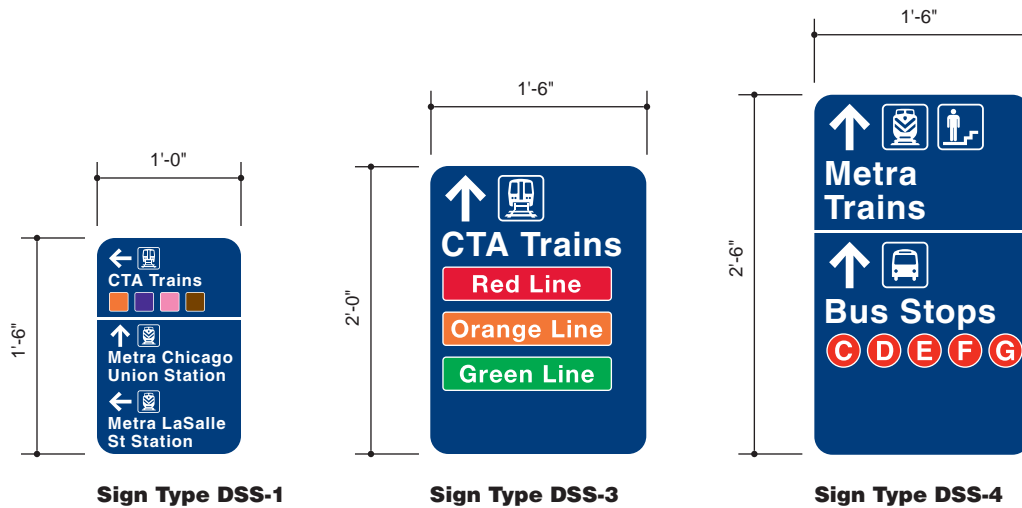
General

Sign type DSS has three standard sizes and one special size for use at certain locations. Determine the size required based on the information to be displayed and the space available for the sign.



SECTION D3 Directional Street Signs

Sign Type DSS Standard Size Summary



Description

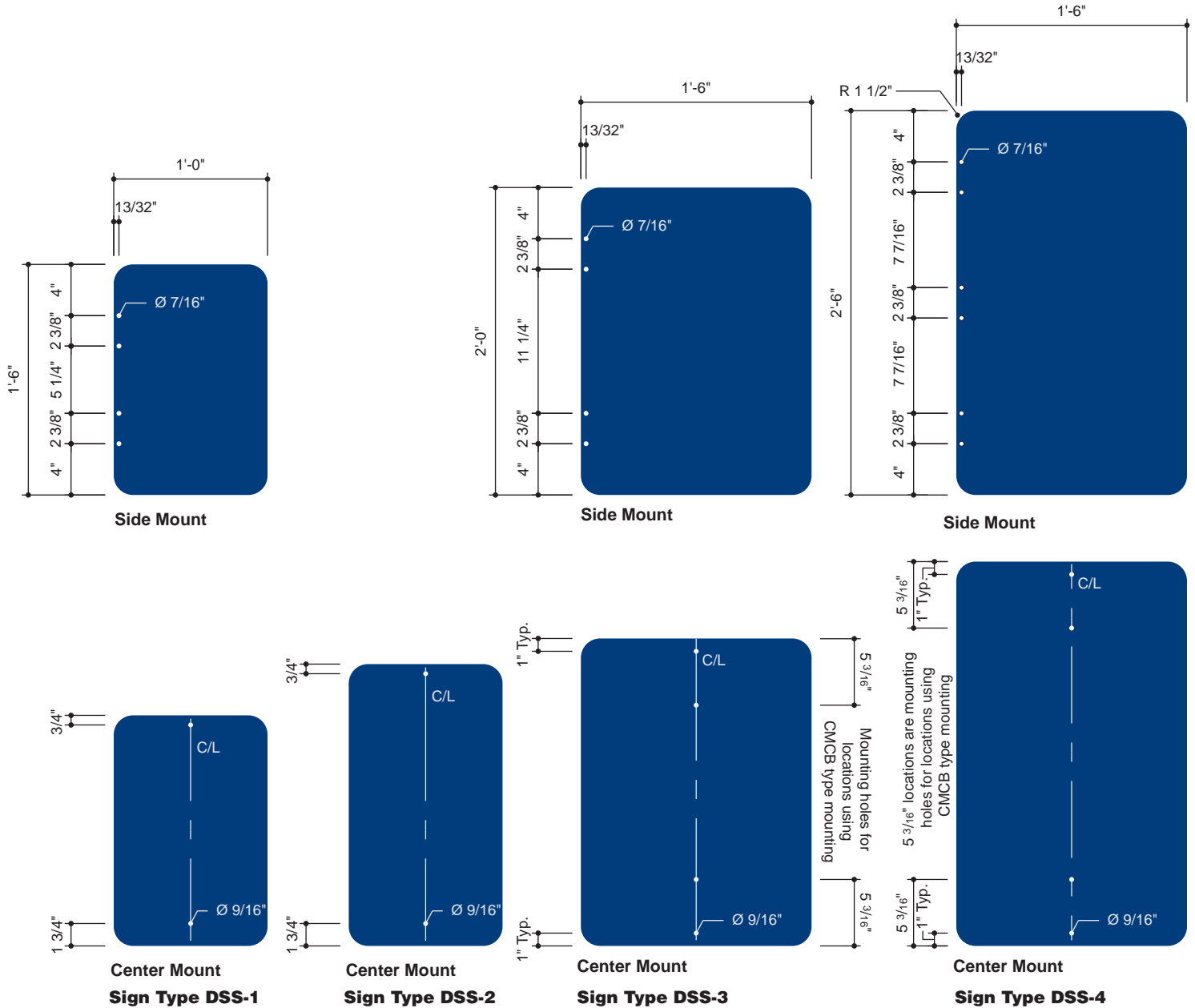
General

Sign type DSS has three standard sizes (DSS-1, DSS-3, and DSS-5) and one special size (DSS-2) for use at certain locations. Determine the size required based on the information to be displayed and the space available for the sign.



SECTION D3 Directional Street Signs

Sign Type DSS Typical Mounting Hole Placement



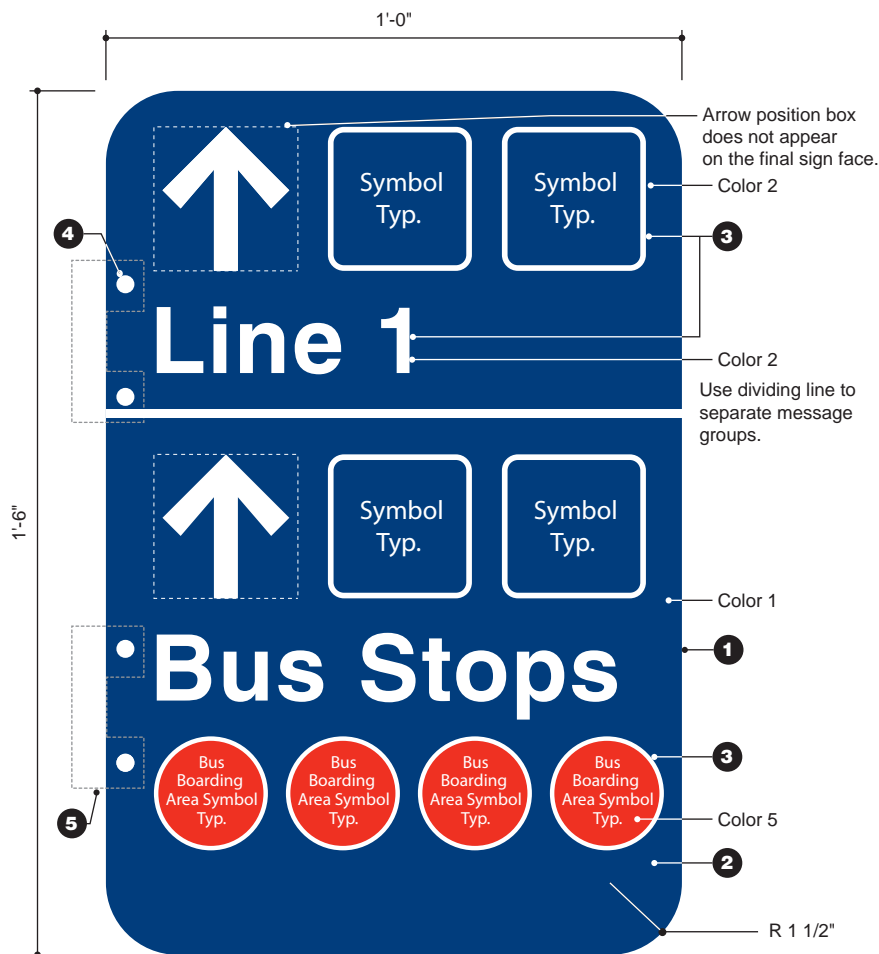
Description

General

Sign type DSS panels can be side / flag mounted using CMFB or CMFS mounting hardware or center mounted using CMCB, CMCC, CMCS, CMWA, or CMWB mounting hardware. Sign type DSS-2 panels are typically only center mounted. Position mounting holes in the panels as shown based on the mounting

method used at each sign installation location. Dimensions shown are to the center of the holes.





1 Elevation - Sign Type DSS-1 - Side Mounting
Scale: 3" = 1'-0"

Sign Post and Sign Mounting Information:

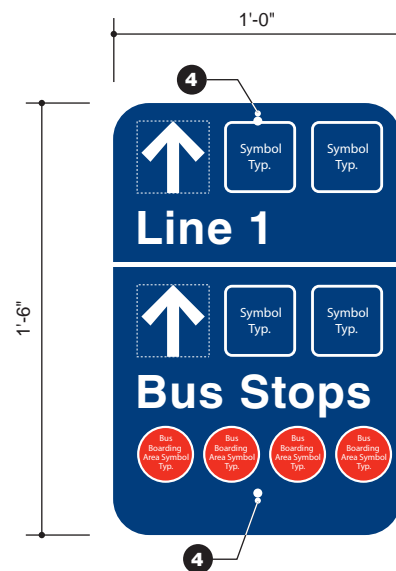
For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.

SECTION D3
Directional Street Signs

Sign Type DSS-1

General Information



2 Elevation - Sign Type DSS-1 - Center Mounting
Scale: 1 1/2" = 1'-0"

Description

General

Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.6 for Design and Layout Notes.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel.

2 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective

anti-graffiti overlamine that is compatible with the graphic film and the printed graphics. The printed graphic film and overlamine shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

4 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

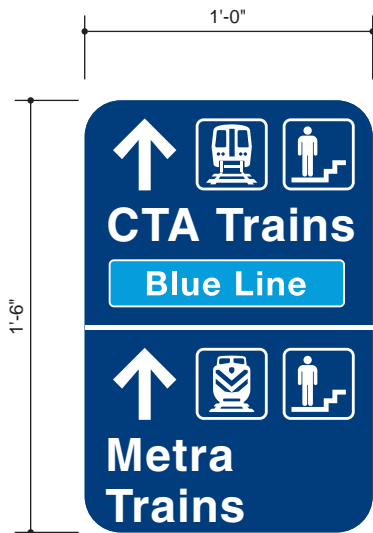
5 Mounting Brackets

DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.

SECTION D3 Directional Street Signs

Sign Type DSS-1

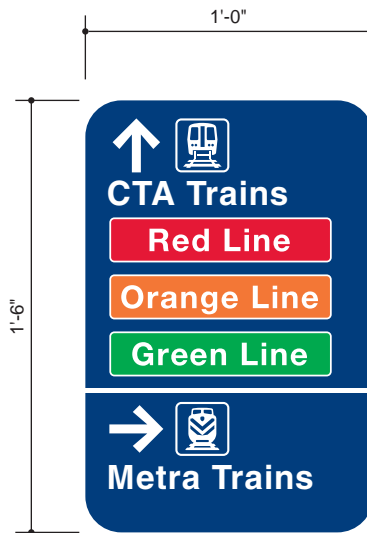
Design and Layout Notes



**Elevation - Sign Type DSS-1
(Large Layout)**

1

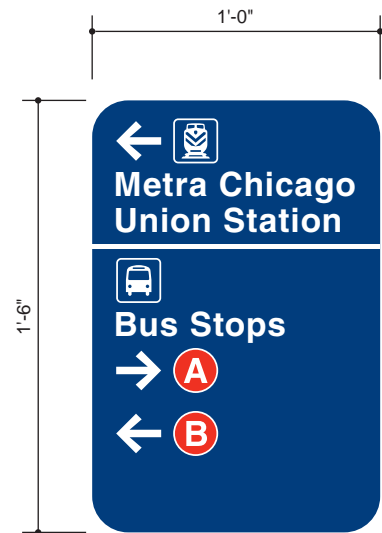
Scale: 1 1/2" = 1'-0"



**Elevation - Sign Type DSS-1
(Medium Layout)**

2

Scale: 1 1/2" = 1'-0"



**Elevation - Sign Type DSS-1
(Small Layout)**

3

Scale: 1 1/2" = 1'-0"

Description

General Design and Layout Information – DSS Signs

- DSS sign size shall be coordinated with site requirements and message content. Generally, DSS-1 shall be used where it is not practical or advisable to use a larger DSS sign. When more than one DSS sign appears at a single location, all the signs shall be the same panel size.
- Three typical message layout sizes are provided. "Large" layouts provide a 3" arrow, 3" symbol, and 1 3/8" text height. "Medium" layouts provide a 2 1/4" arrow, 2 1/4" symbol, and 1" text height. "Small" layouts provide a 1 7/8" arrow, 1 7/8" symbol, and 1" text height. Select a large, medium, or small message layout based on the quantity of information to be displayed.
- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2

for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.
- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.
- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered "up," "left," "right," and "down/behind".
- When all bus stops and / or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the

arrow. Arrows and typography are flush left.

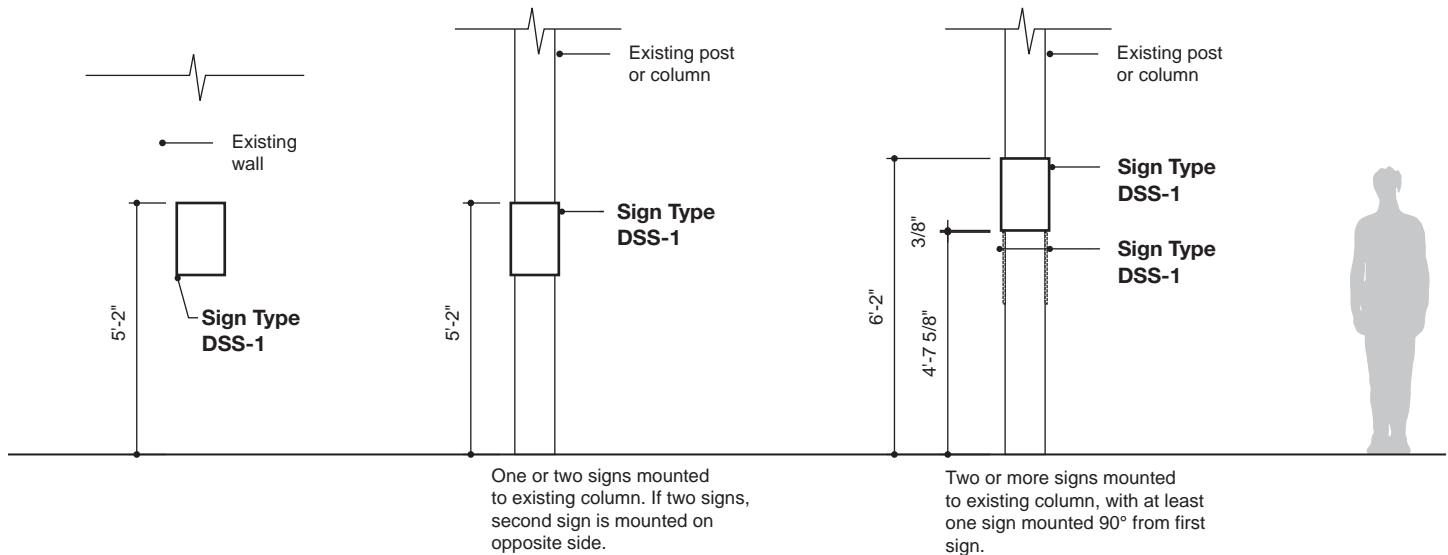
- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.
- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.
- Access symbols (elevator, stairs, etc.) are typically placed above the directional text to the right of the transit mode symbol.
- DSS signs must not be placed in locations that are inappropriate.
- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.



SECTION D3 Directional Street Signs

Sign Type DSS-1

Mounting Heights



1 **Elevation - Sign Type DSS-1 Mounting Heights**
Scale: 1/4" = 1'-0"

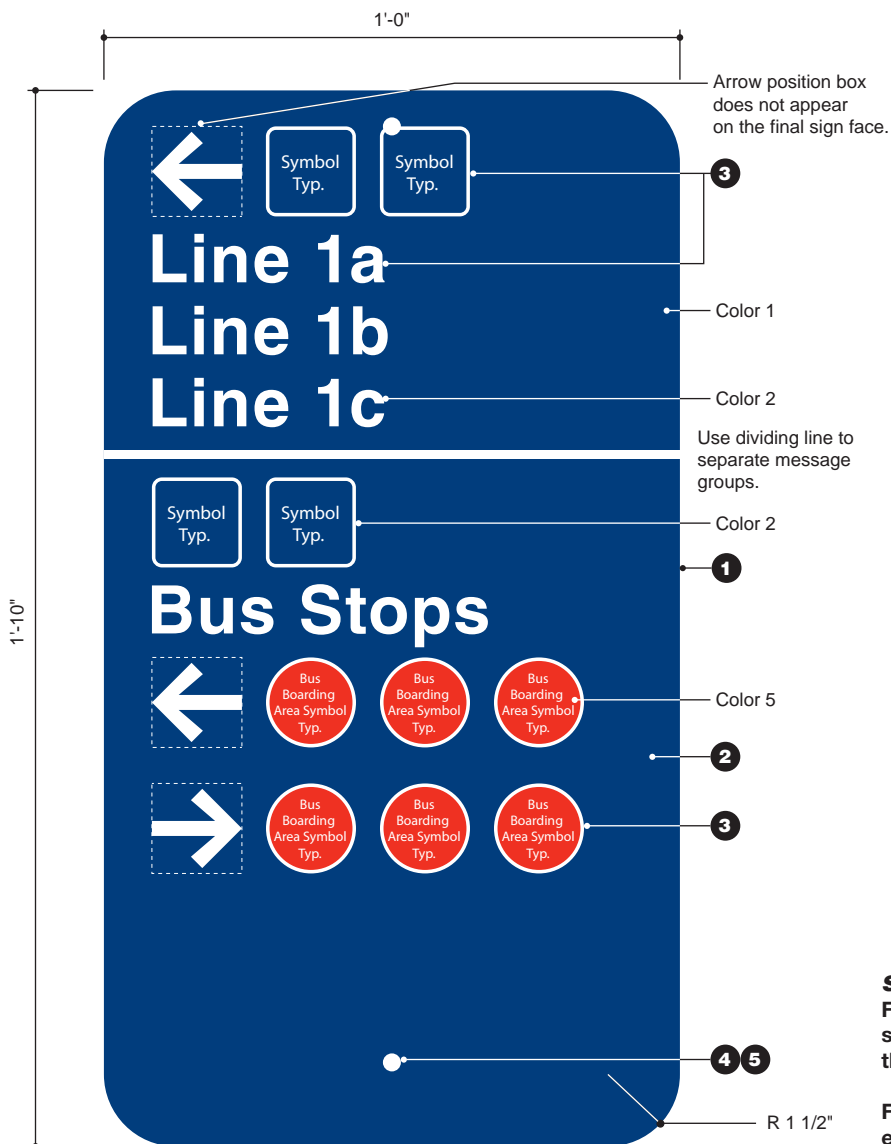
Description

Typical Mounting Heights for DSS-1 Sign Type

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Post or column mounted signs must meet ADA Guidelines for Protruding Objects. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract

drivers or cyclists.

All locations shall be examined on site to determine the final mounting height.



1 Elevation - Sign Type DSS-2 - Center Mounting
Scale: 3" = 1'-0"

SECTION D3 Directional Street Signs

Sign Type DSS-2

General Information

Sign Post and Sign Mounting Information:
For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.

Description

General

Sign type DSS-2 signs are aluminum single-sided panels that provide directional information to passengers along rail station platforms in downtown Chicago. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.9 for Design and Layout Notes.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel.

2 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective

anti-graffiti overlaminates that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminates shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

4 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

5 Mounting Brackets

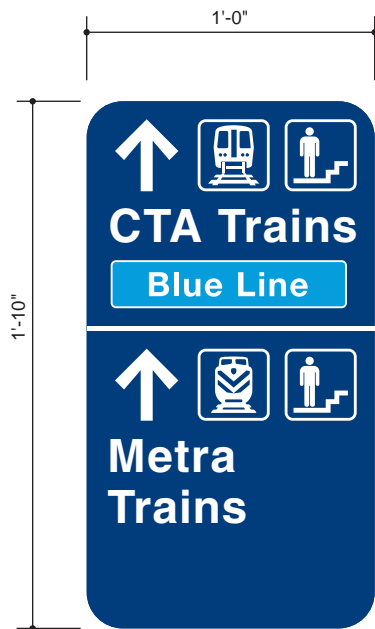
DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.



SECTION D3 Directional Street Signs

Sign Type DSS-2

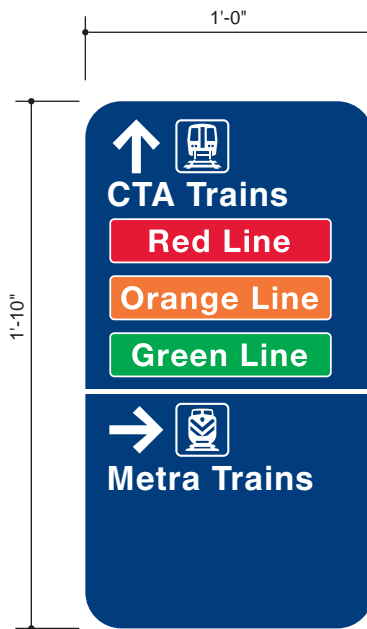
Design and Layout Notes



**Elevation - Sign Type DSS-2
(Large Layout)**

1

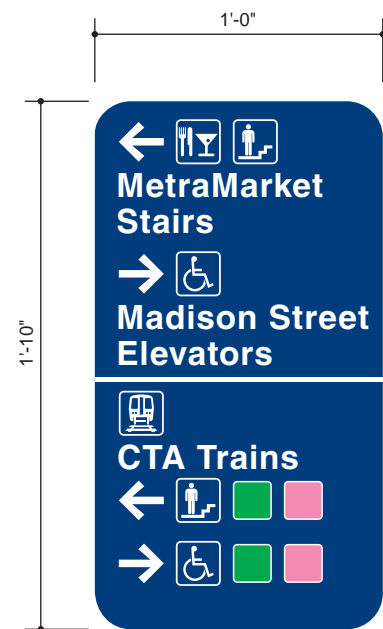
Scale: 1 1/2" = 1'-0"



**Elevation - Sign Type DSS-2
(Medium Layout)**

2

Scale: 1 1/2" = 1'-0"



**Elevation - Sign Type DSS-2
(Small Layout)**

3

Scale: 1 1/2" = 1'-0"

Description

General Design and Layout Information – DSS Signs

- DSS-2 signs are typically installed only on columns located on the platforms of downtown Chicago Metra rail stations. When more than one DSS sign appears at a single location, all the signs shall be the same size.
- Three typical message layout sizes are provided. "Large" layouts provide a 3" arrow, 3" symbol, and 1 3/8" text height. "Medium" layouts provide a 2 1/4" arrow, 2 1/4" symbol, and 1" text height. "Small" layouts provide a 1 7/8" arrow, 1 7/8" symbol, and 1" text height. Select a large, medium, or small message layout based on the quantity of information to be displayed.
- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding

requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.
- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.
- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered "up", "left", "right", and "down/behind".
- When all bus stops and / or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.
- If the CTA train lines are in different

directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.

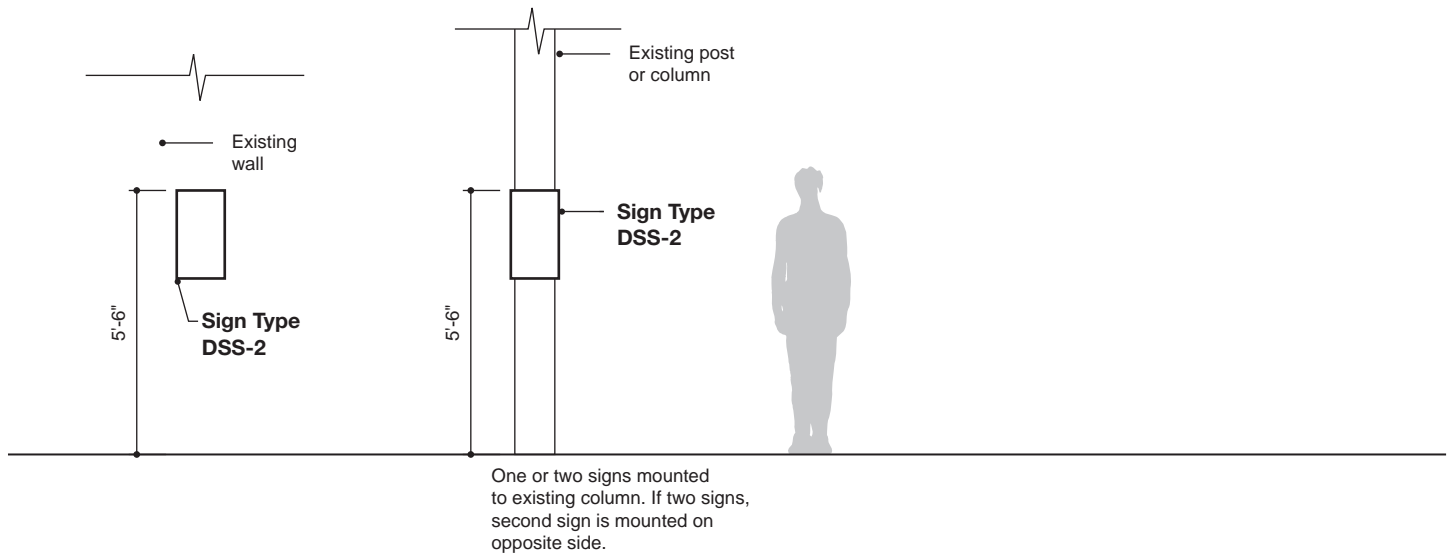
- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.
- Access symbols (elevator, stairs, etc.) are typically placed above the text to the right of the transit mode symbol.
- DSS signs must not be placed in locations that are inappropriate.
- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.



SECTION D3 Directional Street Signs

Sign Type DSS-2

Mounting Heights



1 **Elevation - Sign Type DSS-2 Mounting Heights**
Scale: 1/4" = 1'-0"

Description

Typical Mounting Heights for DSS-2 Sign Type

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Post or column mounted signs must meet ADA Guidelines for Protruding Objects. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract

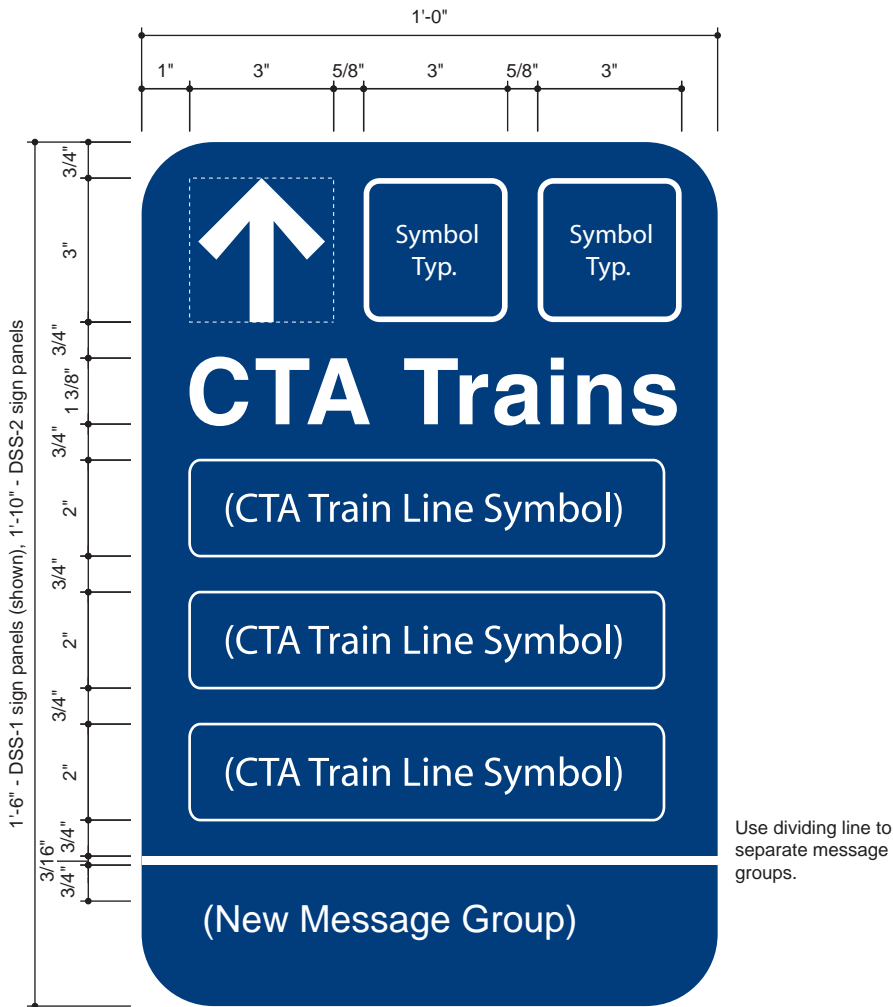
drivers or cyclists.

All locations shall be examined on site to determine the final mounting height.

SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA 'L' line symbols with line names.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Large" Layouts

Scale: 3" = 1'-0"



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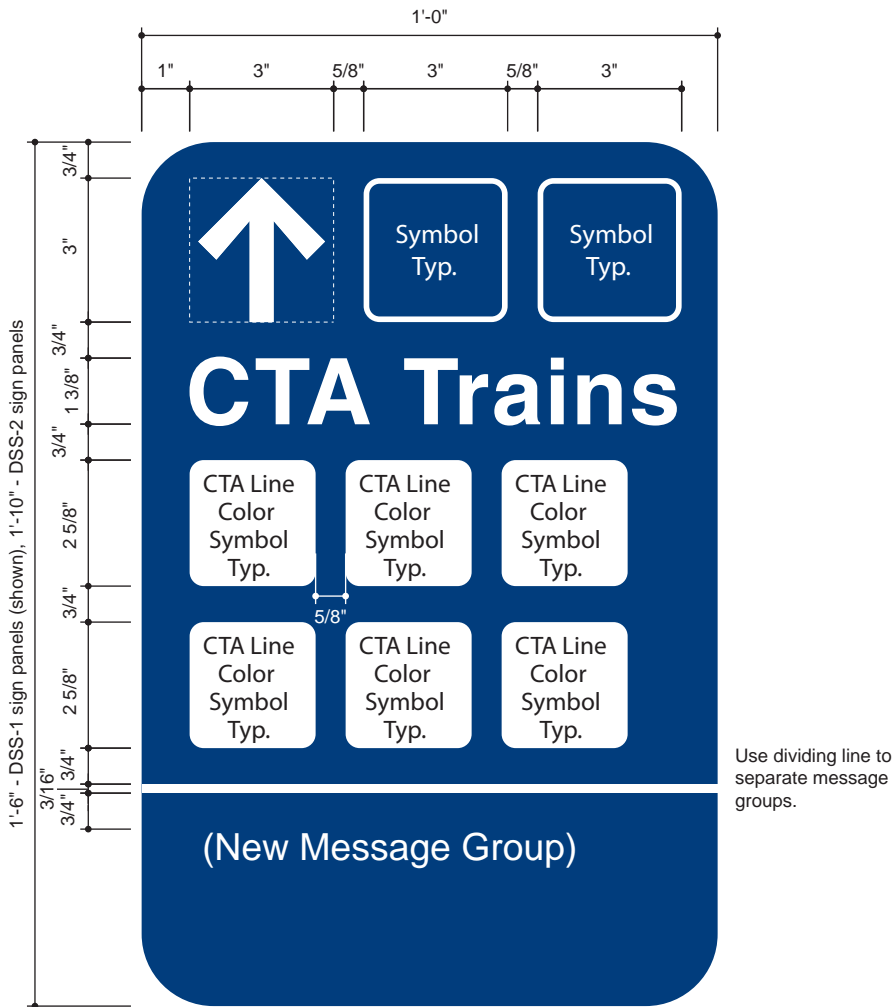
Date: 08.29.14
Revised: 07.22.16,
04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, square CTA 'L' line symbols

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Large" Layouts Scale: 3" = 1'-0"



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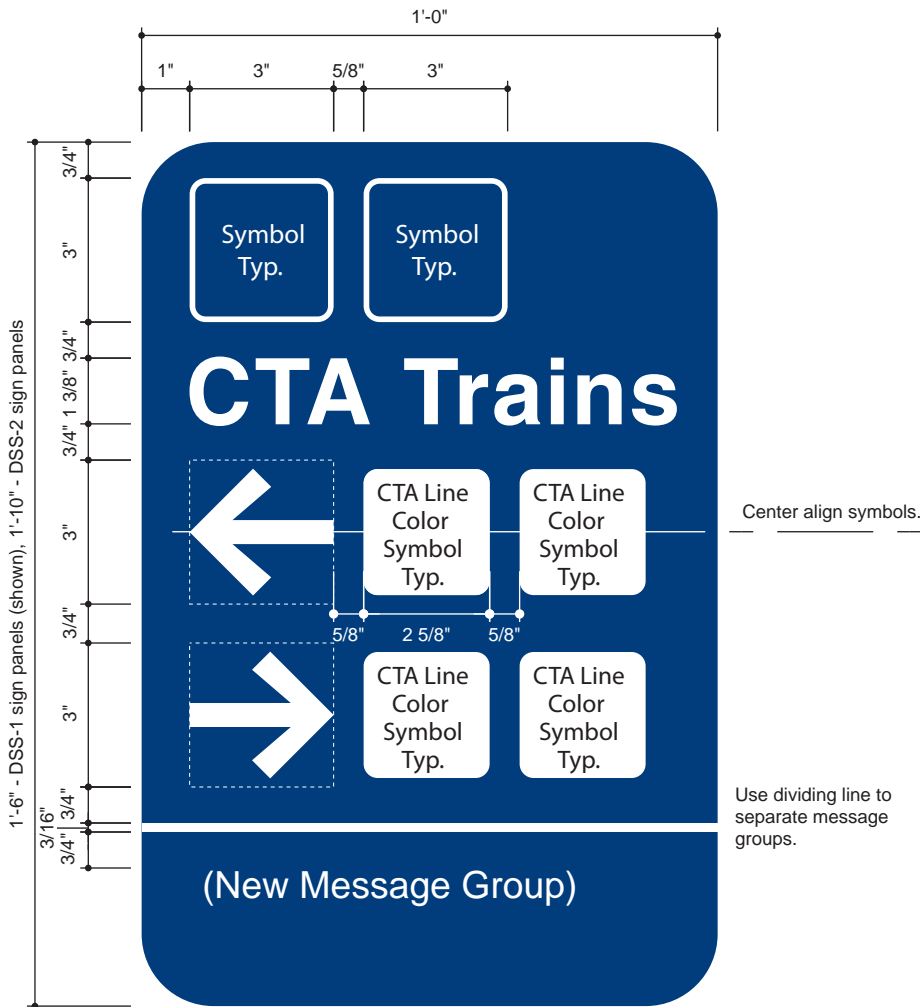
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, square CTA 'L' line symbols

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Large" Layouts Scale: 3" = 1'-0"



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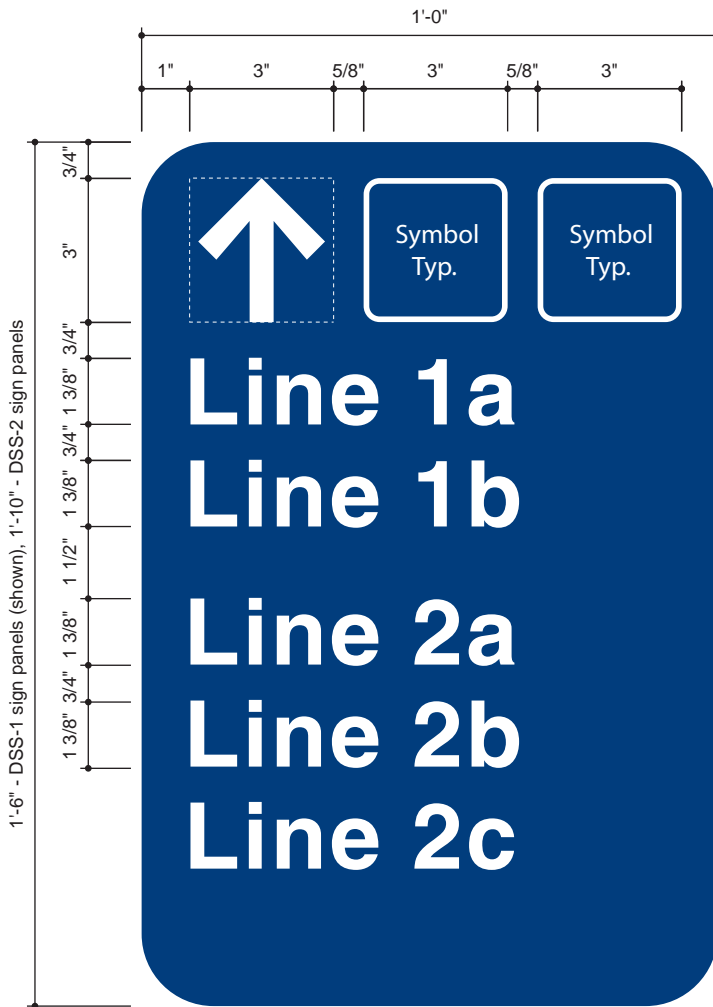
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Dividing line does not appear after last message.

One arrow, one or more messages

1 Elevation - Sign Types DSS-1 and 2 - Metra Trains / General Text Message "Large" Layouts

Scale: 3" = 1'-0"



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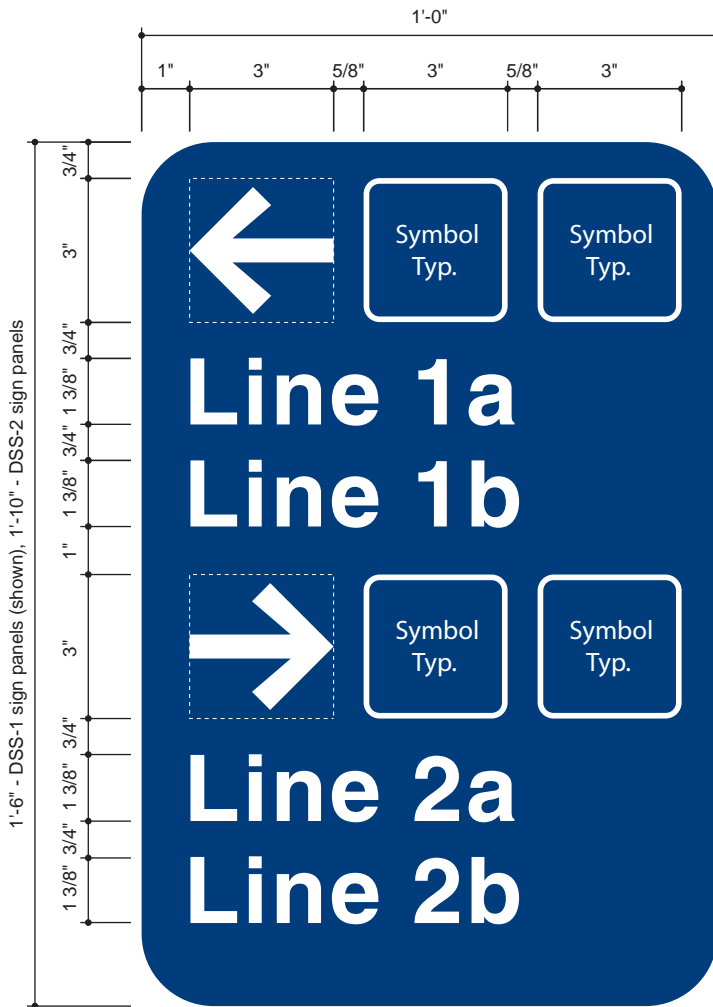
Date: 08.29.14
Revised: 07.22.16,
04.17.19

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D3.14

SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Dividing line does not appear after last message.

Two arrows, each with one message

1 Elevation - Sign Types DSS-1 and 2 - Metra Trains / General Text Message "Large" Layouts Scale: 3" = 1'-0"



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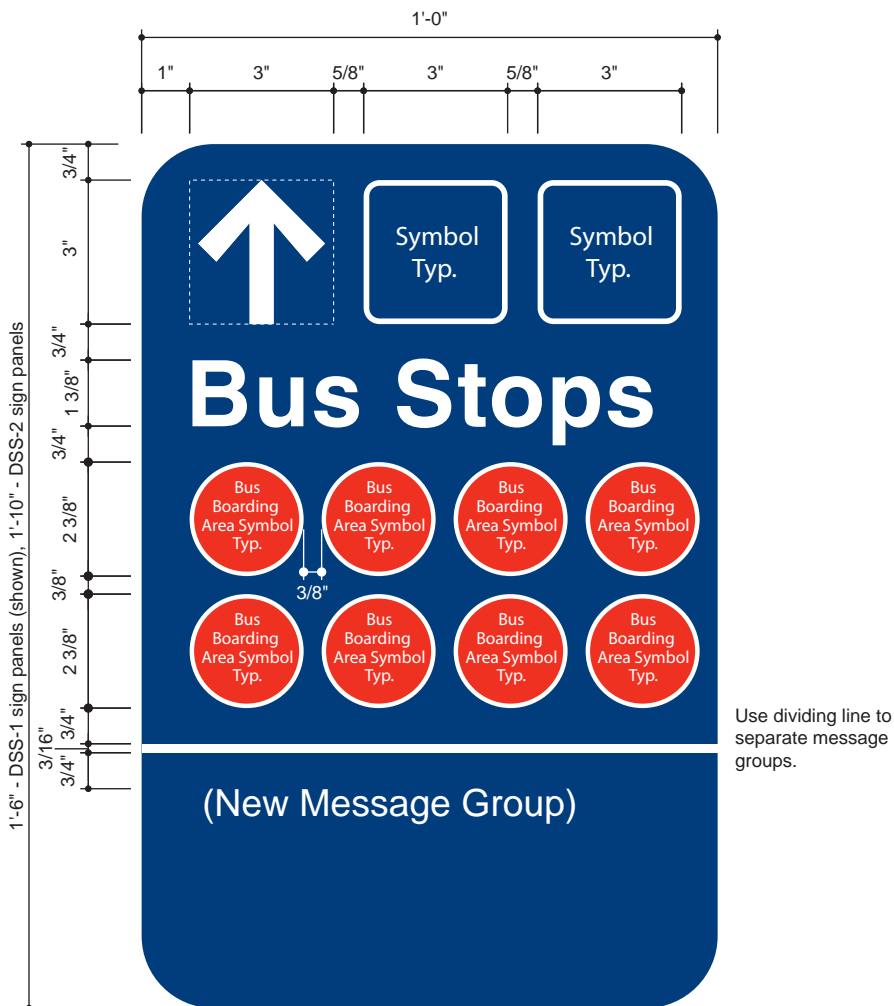
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Large" Layouts Scale: 3" = 1'-0"



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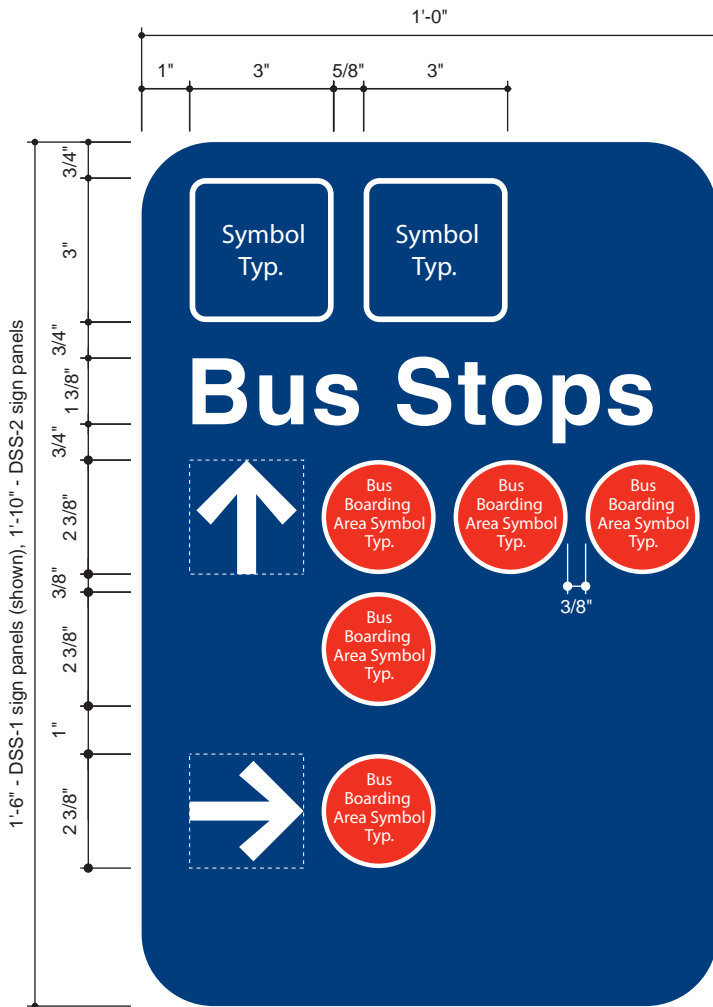
Date: 08.29.14
Revised: 07.22.16,
04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple bus boarding area symbols

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Large" Layouts Scale: 3" = 1'-0"



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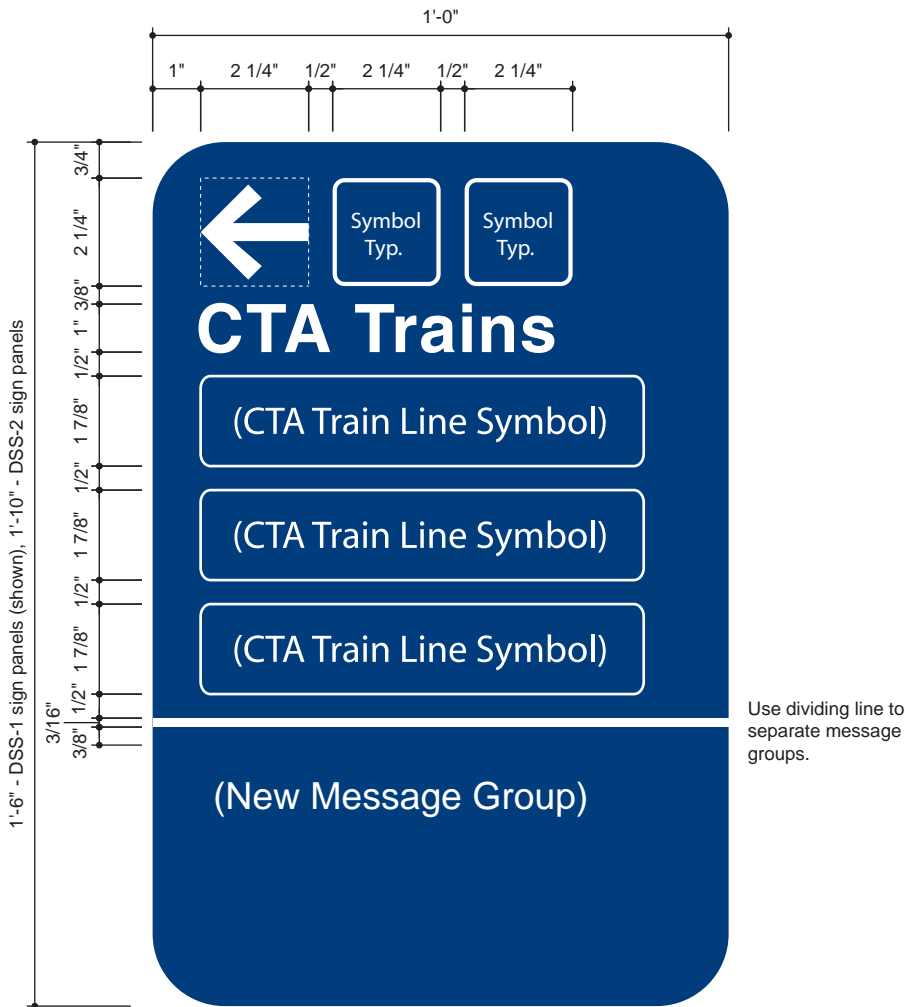
Date: 08.29.14
Revised: 07.22.16,
04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA 'L' line symbols with line names.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Medium" Layouts

Scale: 3" = 1'-0"



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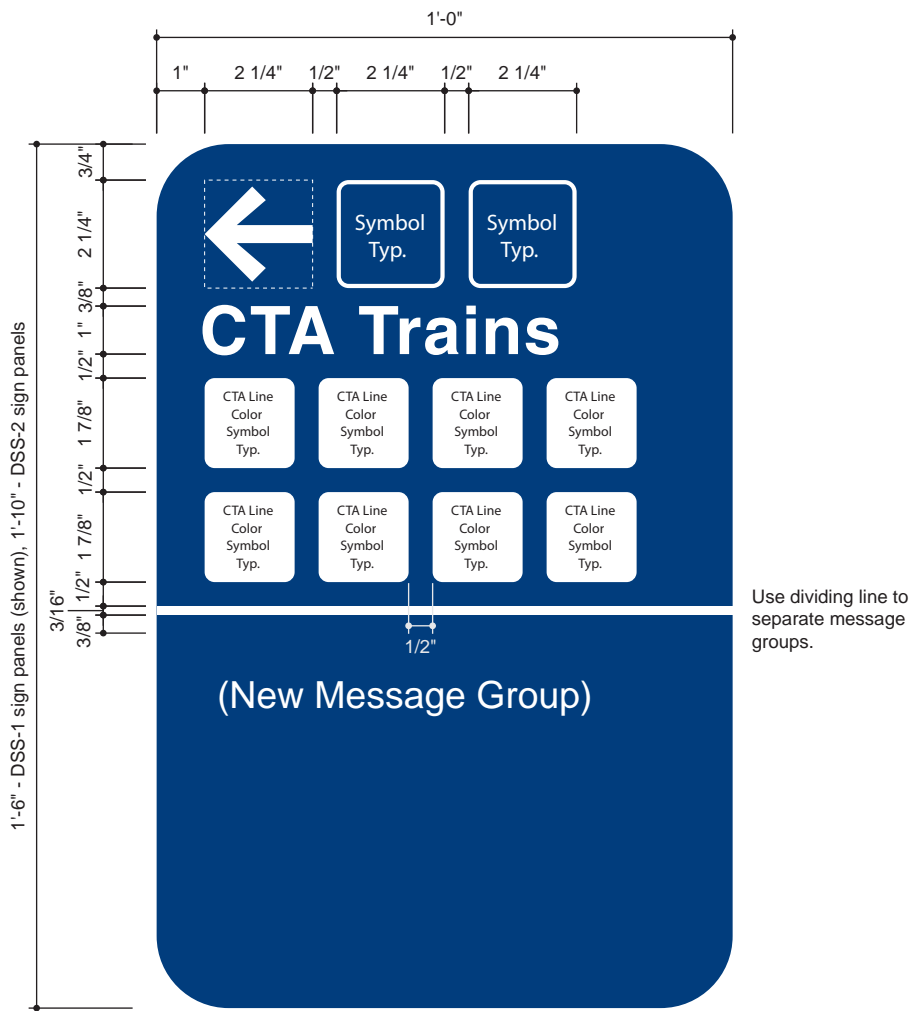
Date: 08.29.14
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04.17.19

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SECTION D3
Directional Street Signs

Sign Types DSS-1 and DSS-2

“Medium” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, multiple square CTA 'L' line symbols.

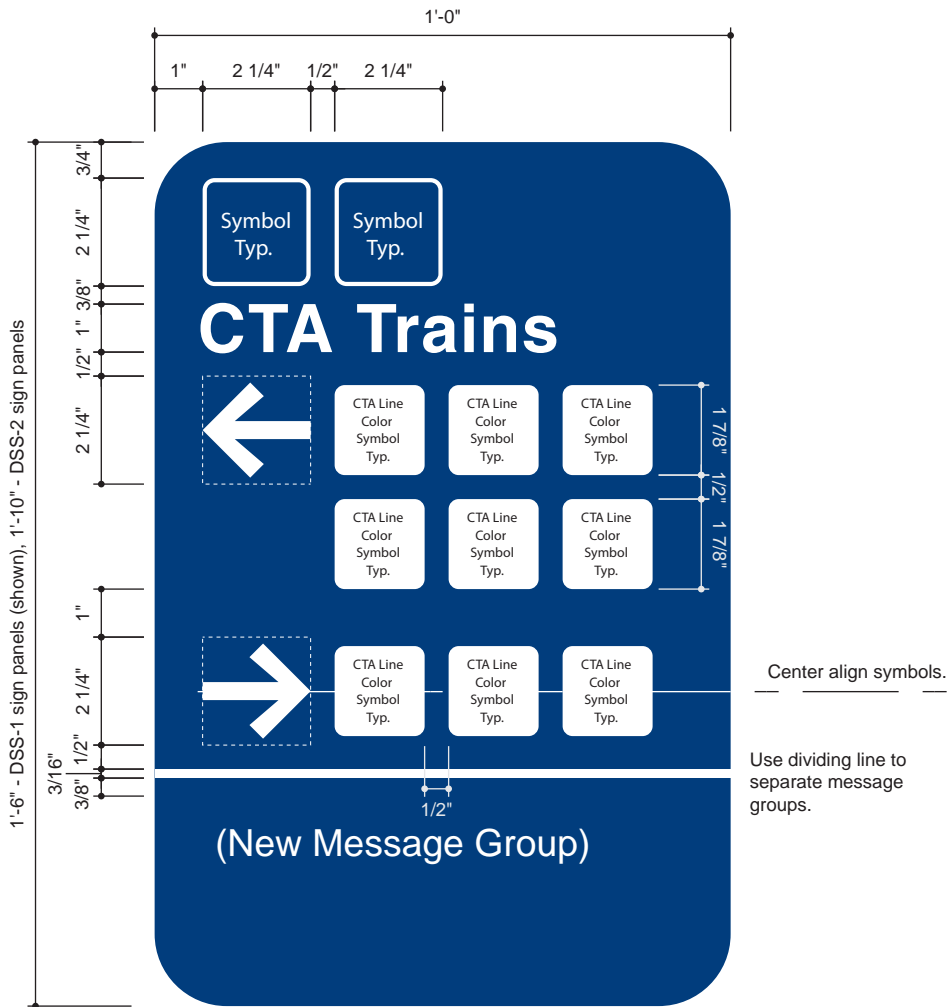
1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message “Medium” Layouts
Scale: 3" = 1'-0"



SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Two or more arrows, multiple square CTA 'L' line symbols.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Medium" Layouts

Scale: 3" = 1'-0"



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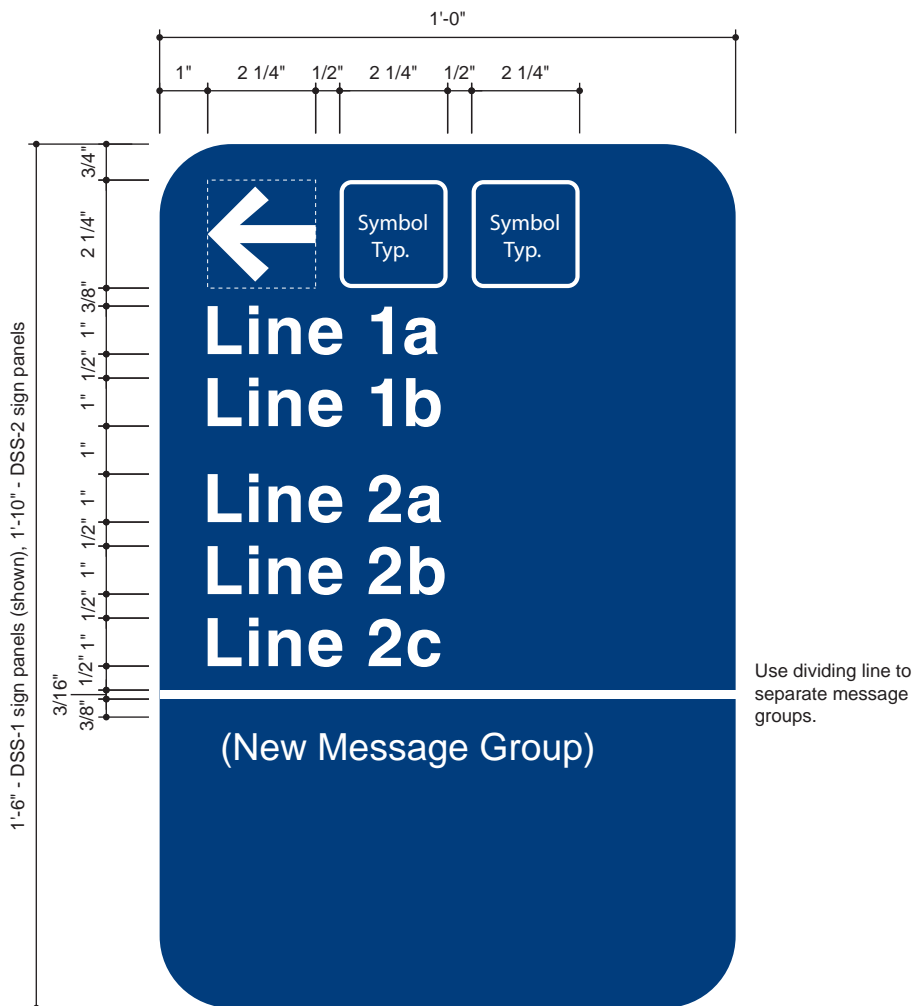
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or multiple messages.
For Metra directionals, use this layout when there is one or more station in the same direction.

1 Elevation - Sign Types DSS-1 and 2 - Metra Train / General Text Message "Medium" Layouts

Scale: 3" = 1'-0"



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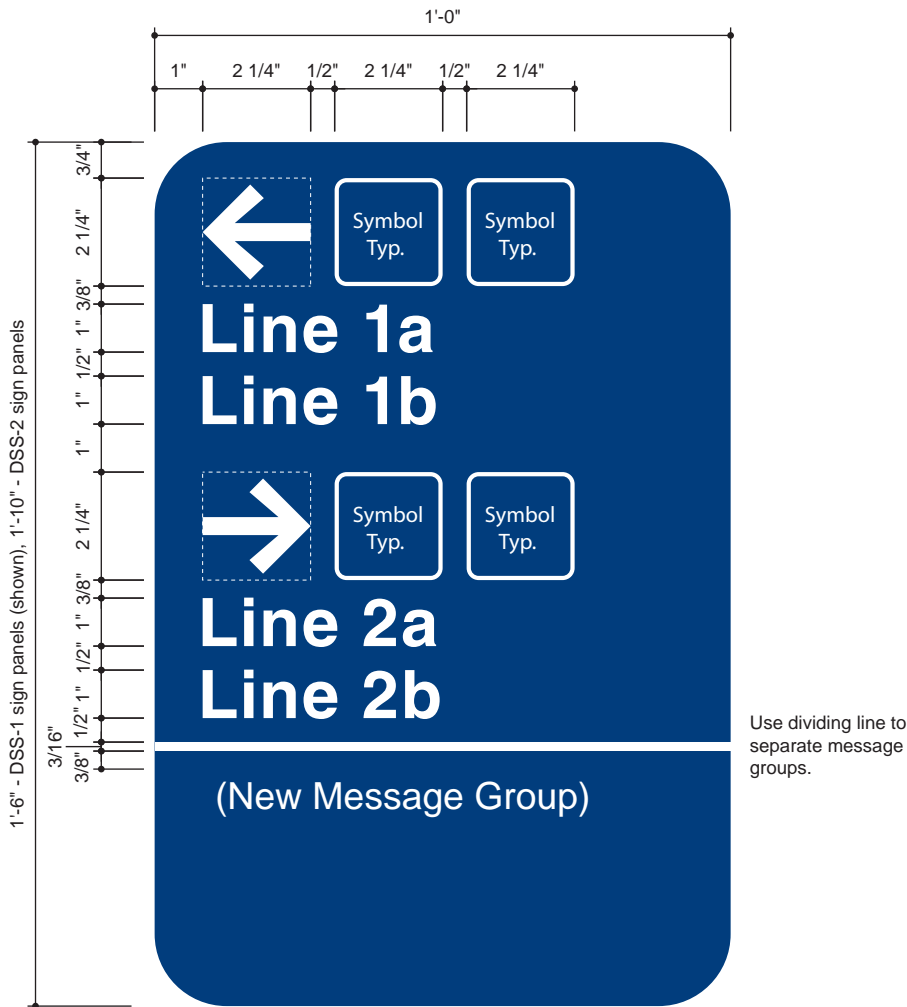
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages.
For Metra directionals, use this layout when there is more than one station in multiple directions.

1 Elevation - Sign Types DSS-1 and 2 - Metra Train / General Text Message "Medium" Layouts Scale: 3" = 1'-0"



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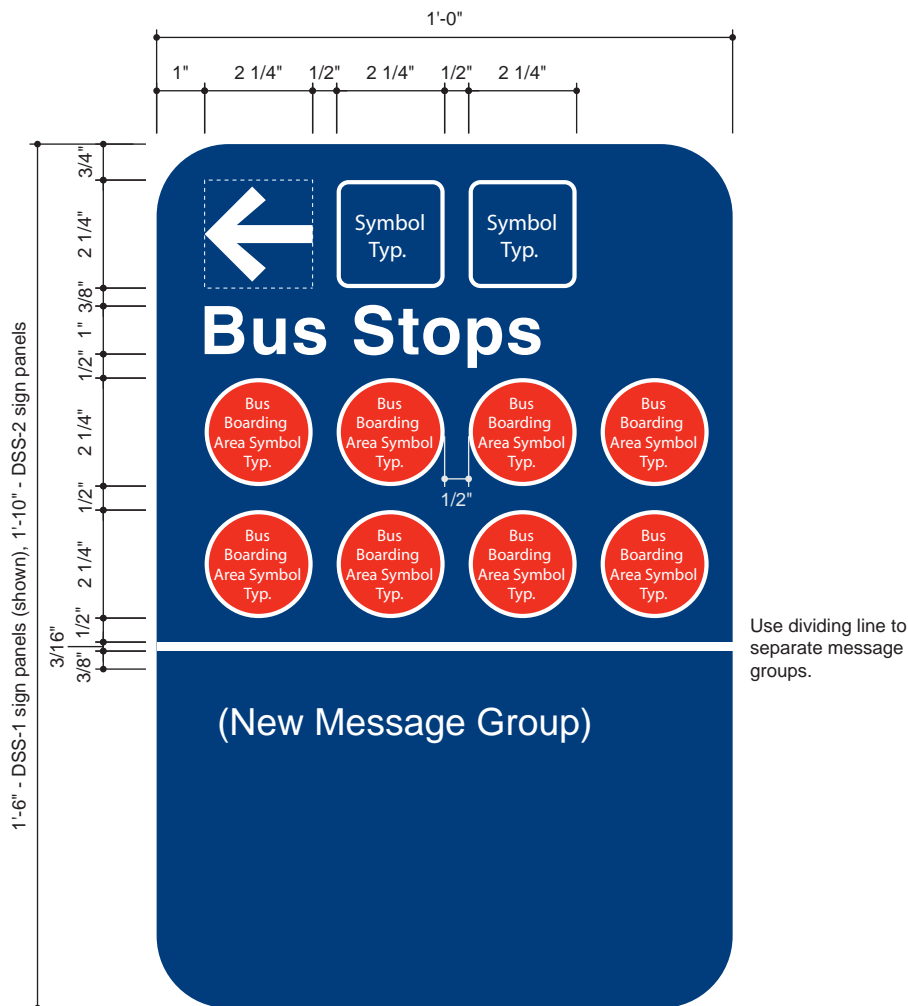
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols.

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Medium" Layouts

Scale: 3" = 1'-0"



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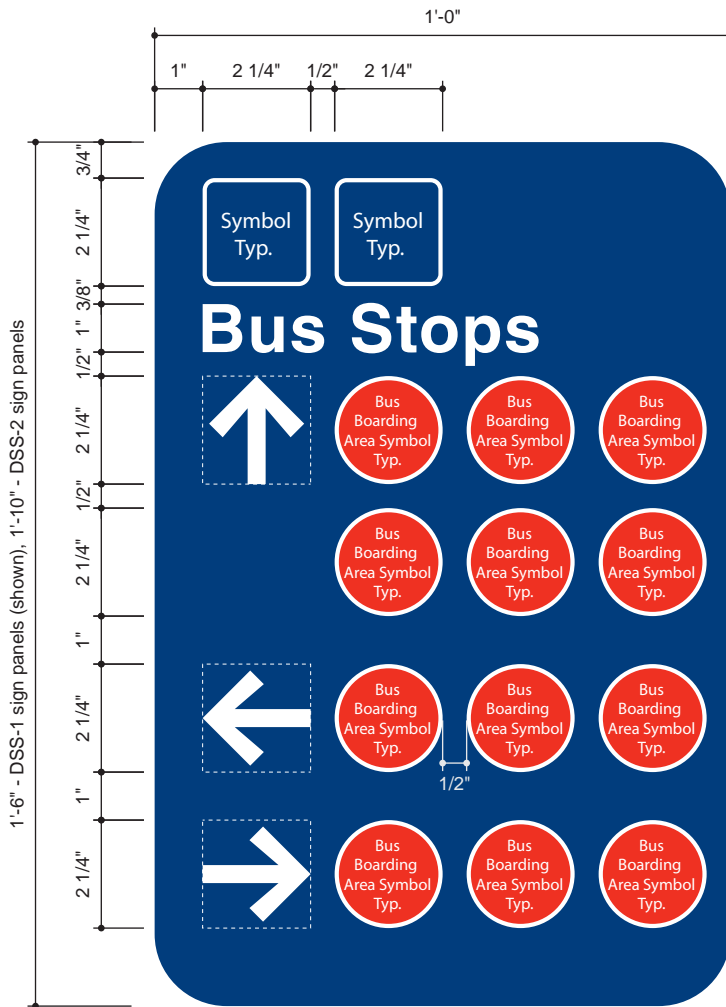
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Dividing line does not appear after last message.

Multiple arrows, multiple bus boarding area symbols symbols.

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Medium" Layouts Scale: 3" = 1'-0"



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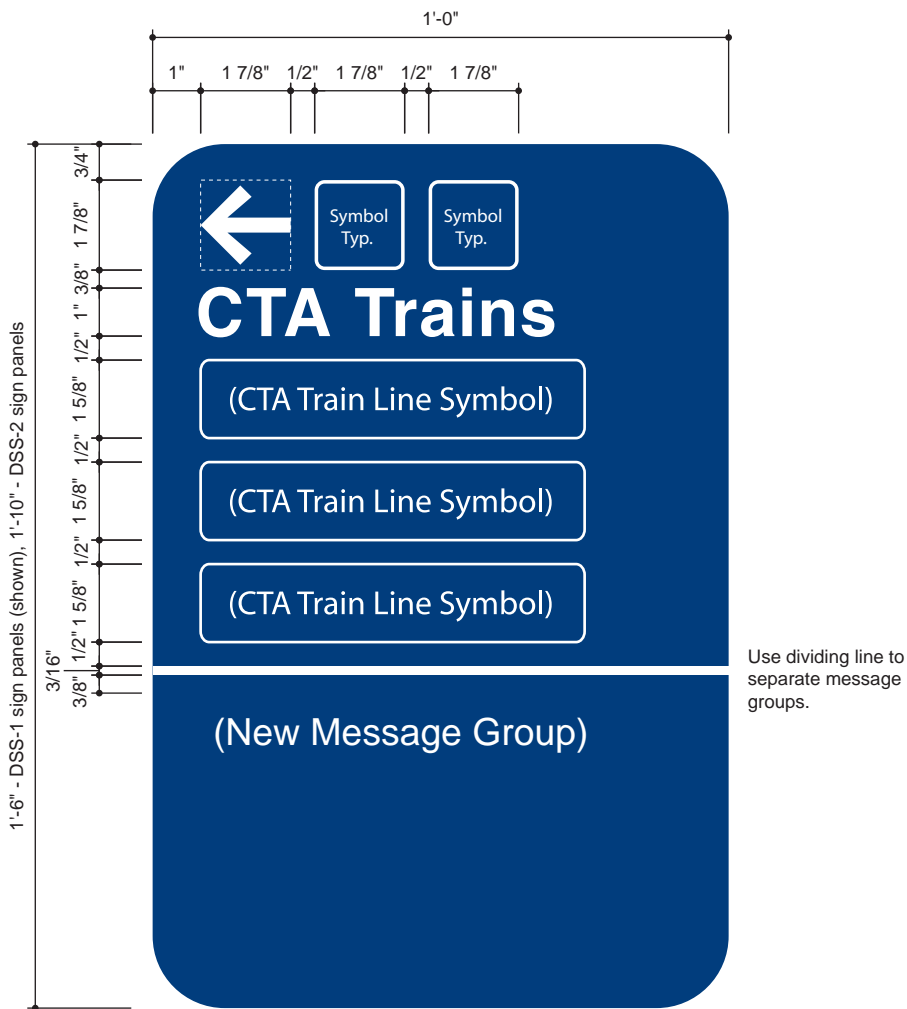
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04.17.19

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SECTION D3
Directional Street Signs

Sign Types DSS-1 and DSS-2

“Small” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, CTA 'L' line symbols with line names.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message “Small” Layouts
 Scale: 3" = 1'-0"



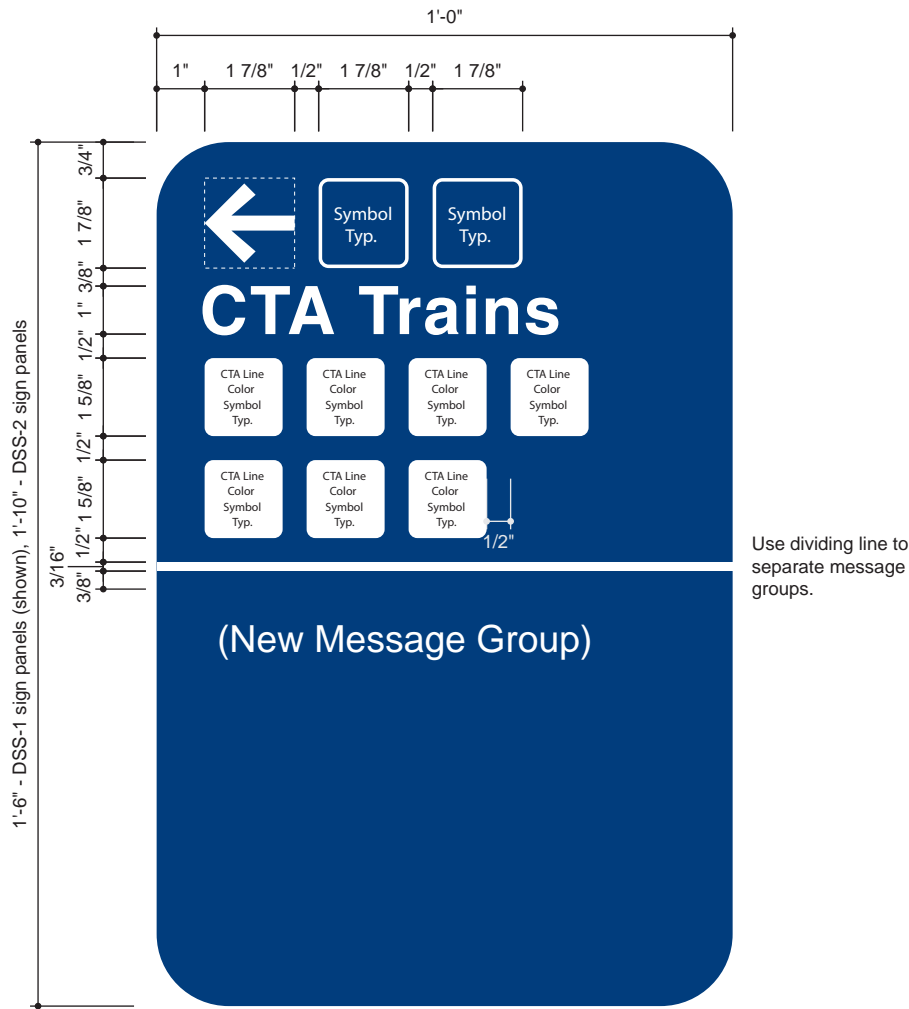
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Date: 08.29.14
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Directional Street Signs

Sign Types DSS-1 and DSS-2

“Small” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, square CTA 'L' line symbols.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message “Small” Layouts
Scale: 3" = 1'-0"



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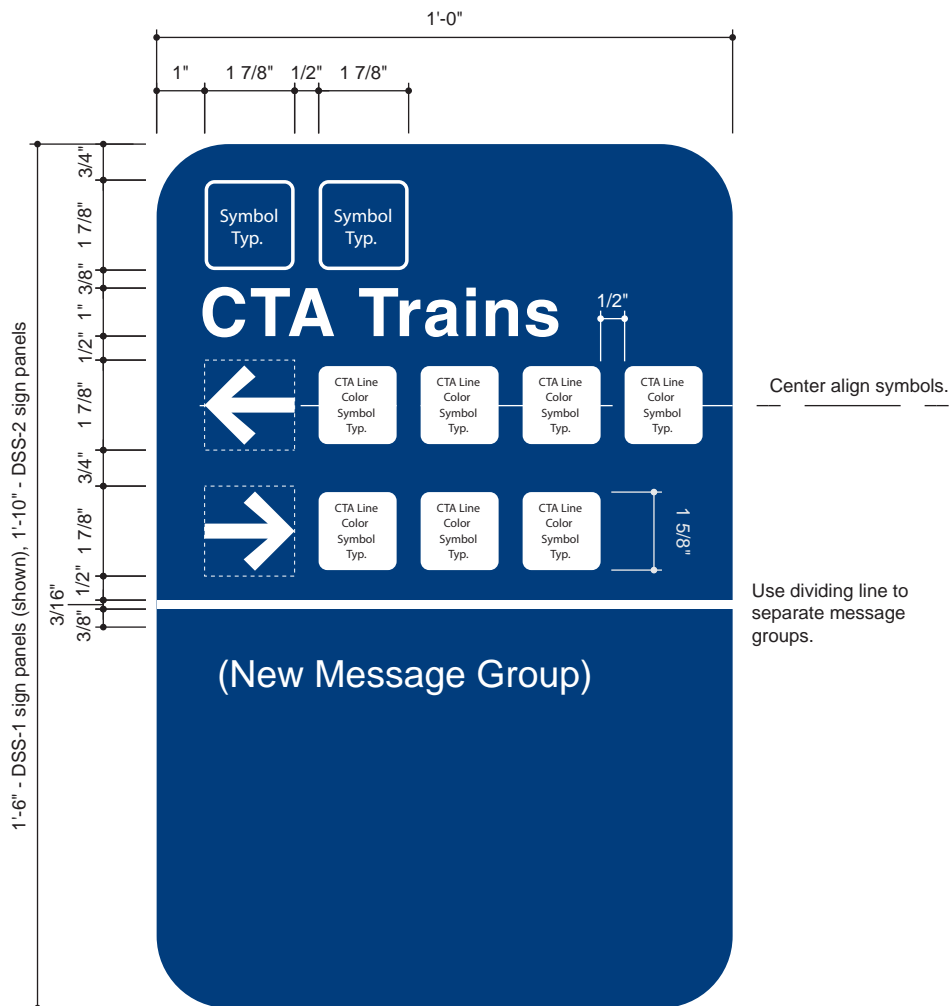
Date: 08.29.14
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple square CTA 'L' line symbols.

1 Elevation - Sign Types DSS-1 and 2 - CTA Train Message "Small" Layouts

Scale: 3" = 1'-0"



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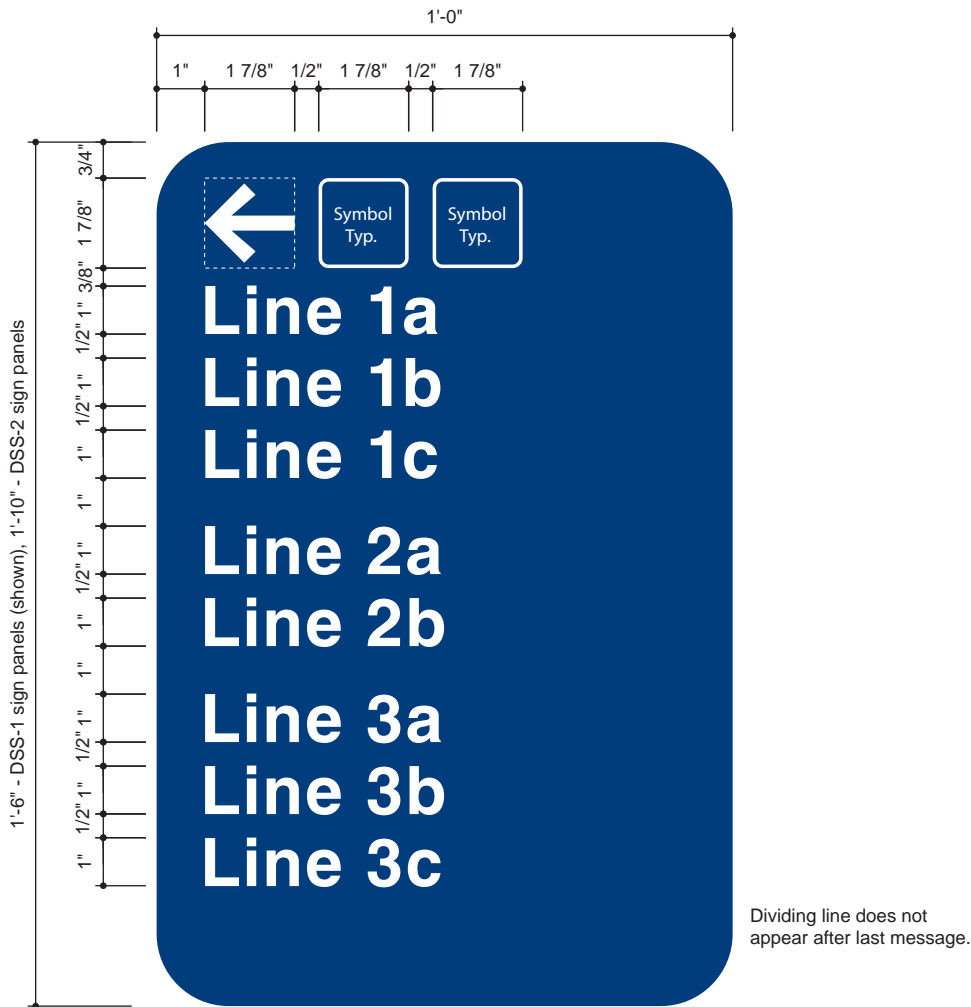
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04.17.19

Section D3
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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, one or multiple messages.
For Metra directionals, use this layout when there is one or more station in the same direction.

1 Elevation - Sign Types DSS-1 and 2 - Metra Train / General Text Message "Small" Layouts Scale: 3" = 1'-0"



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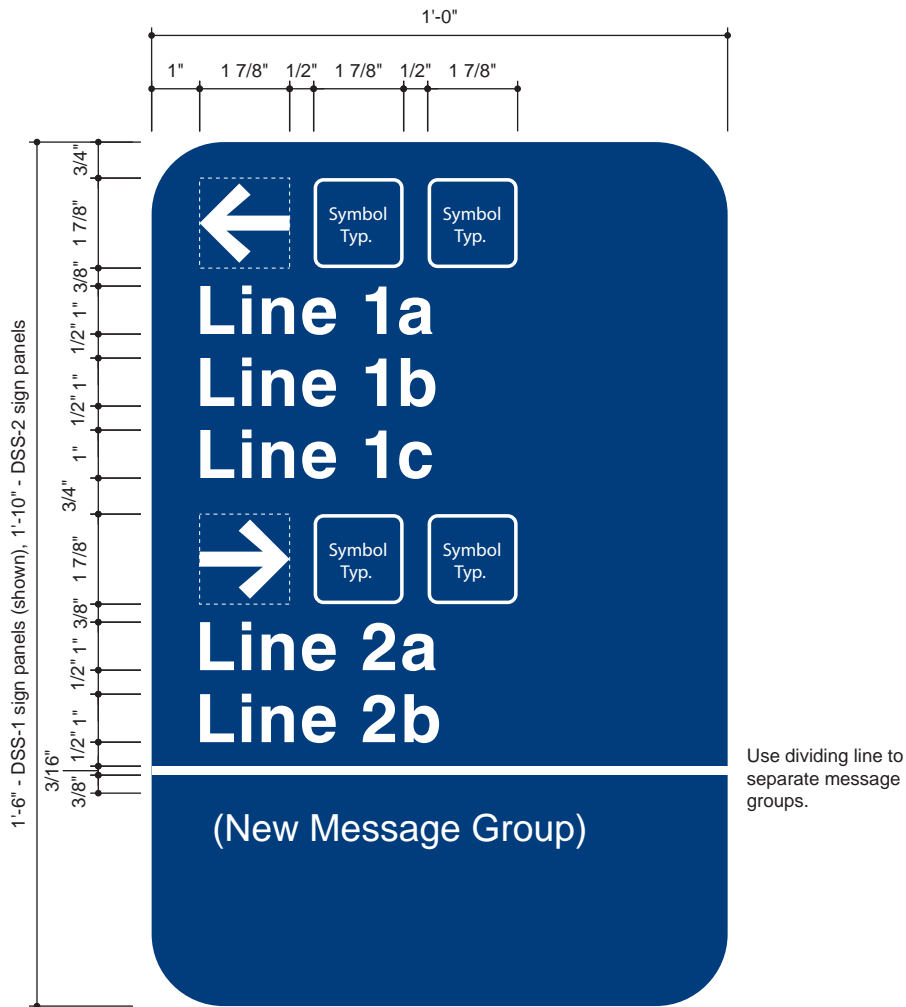
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04.17.19

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SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, multiple messages.
For Metra directionals, use this layout when there is more than one station in multiple directions.

1

Elevation - Sign Types DSS-1 and 2 - Metra Train / General Text Message "Small" Layouts

Scale: 3" = 1'-0"



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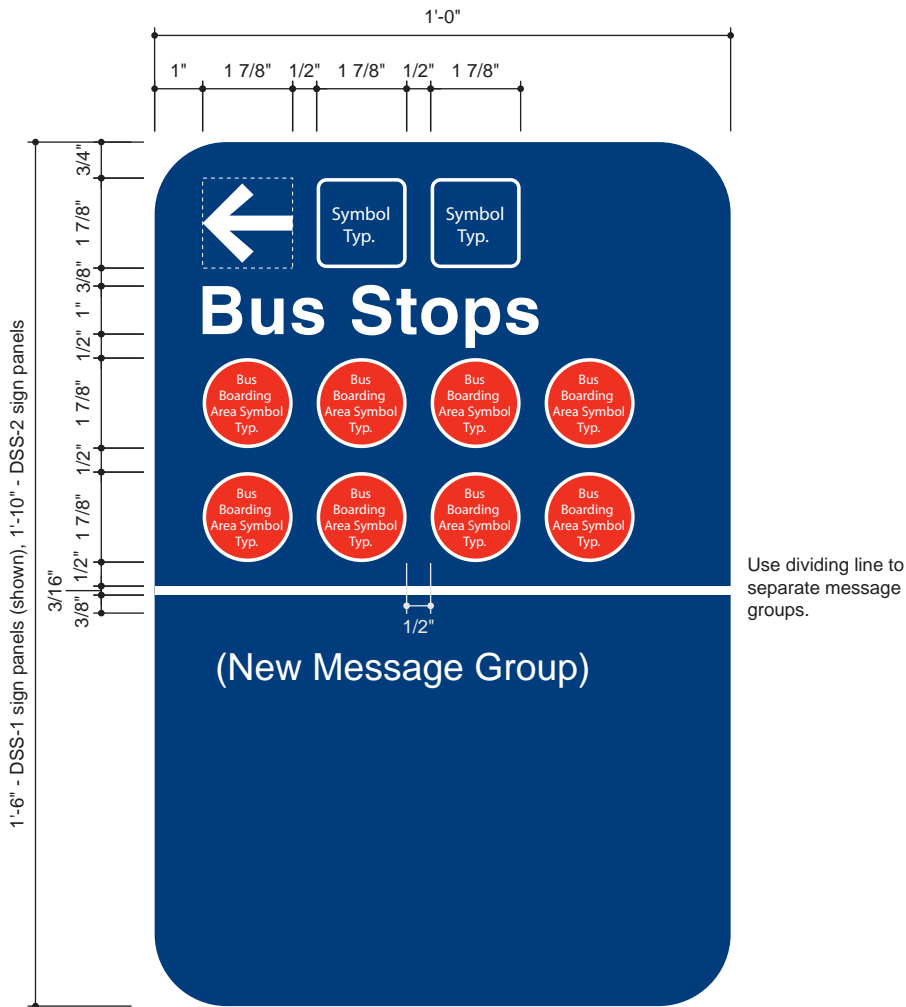
Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section D3
D3.29

SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

One arrow, bus boarding area symbols symbols.

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Small" Layouts

Scale: 3" = 1'-0"



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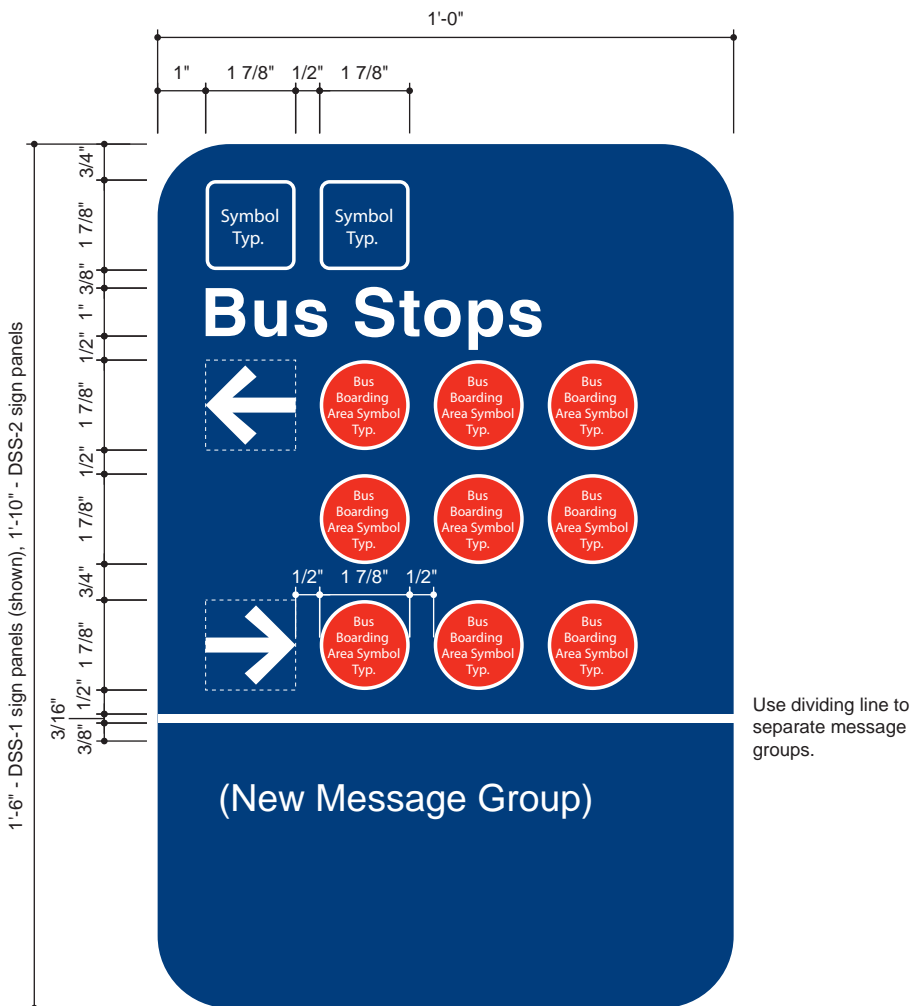
Date: 08.29.14
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04.17.19

Section D3
D3.30

SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Multiple arrows, boarding area symbols symbols.

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Small" Layouts

Scale: 3" = 1'-0"



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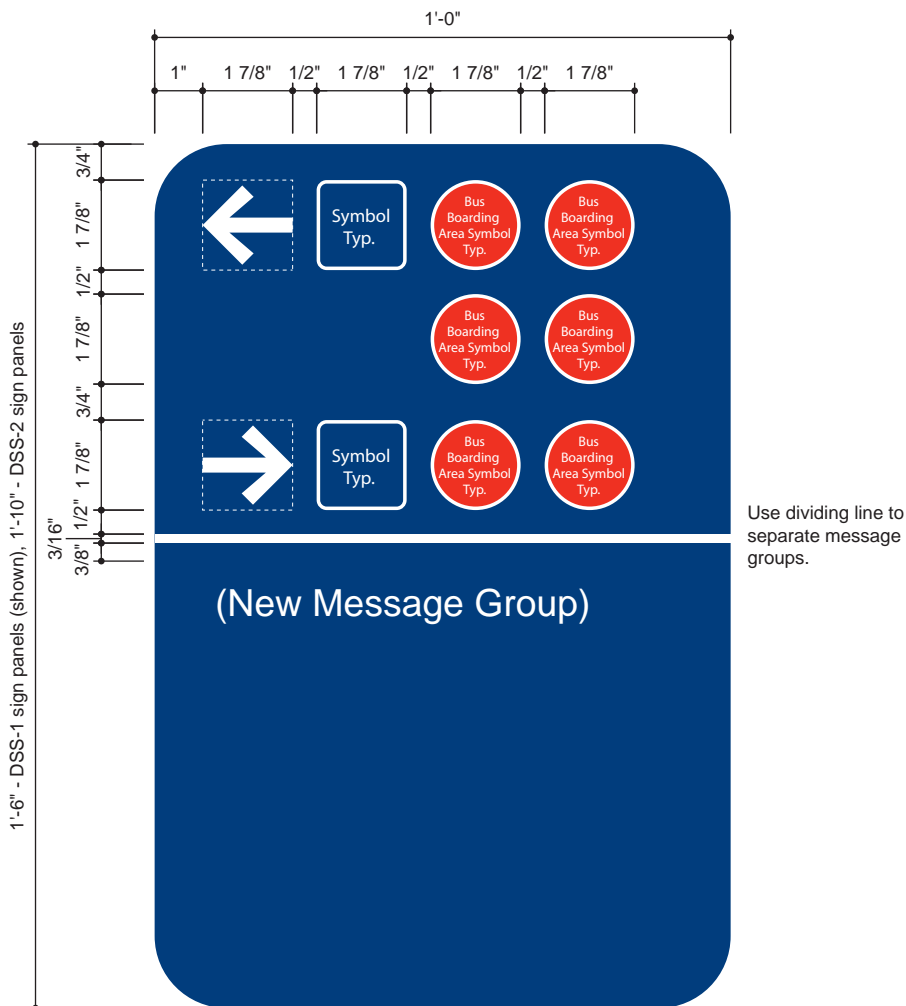
Date: 08.29.14
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04.17.19

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D3.31

SECTION D3 Directional Street Signs

Sign Types DSS-1 and DSS-2

"Small" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Note: Use this layout only if there is not enough room on the sign panel to use a layout with text.

One or more arrows, bus boarding area symbols.

1 Elevation - Sign Types DSS-1 and 2 - Bus Message "Small" Layouts

Scale: 3" = 1'-0"



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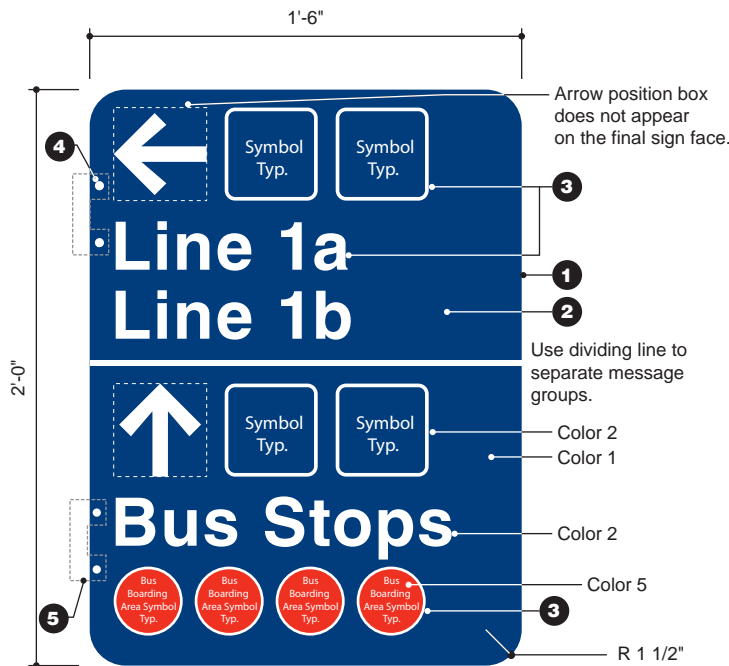
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D3.32

SECTION D3 Directional Street Signs

Sign Type DSS-3

General Information

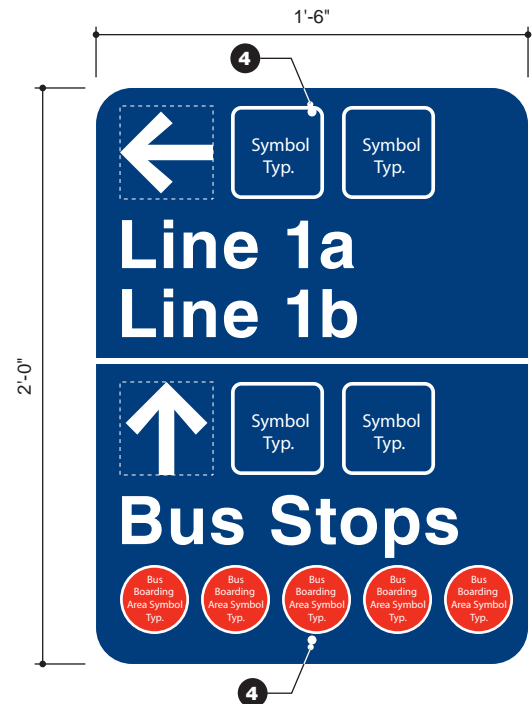


1 Elevation - Sign Type DSS-3 – Side Mounting Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:

For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.



2 Elevation - Sign Type DSS-3 – Center Mounting Scale: 1 1/2" = 1'-0"

Description

General

Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.34 for Design and Layout Notes.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel.

2 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective

anti-graffiti overlaminates that is compatible with the graphic film and the printed graphics. The printed graphic film and overlaminates shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

4 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

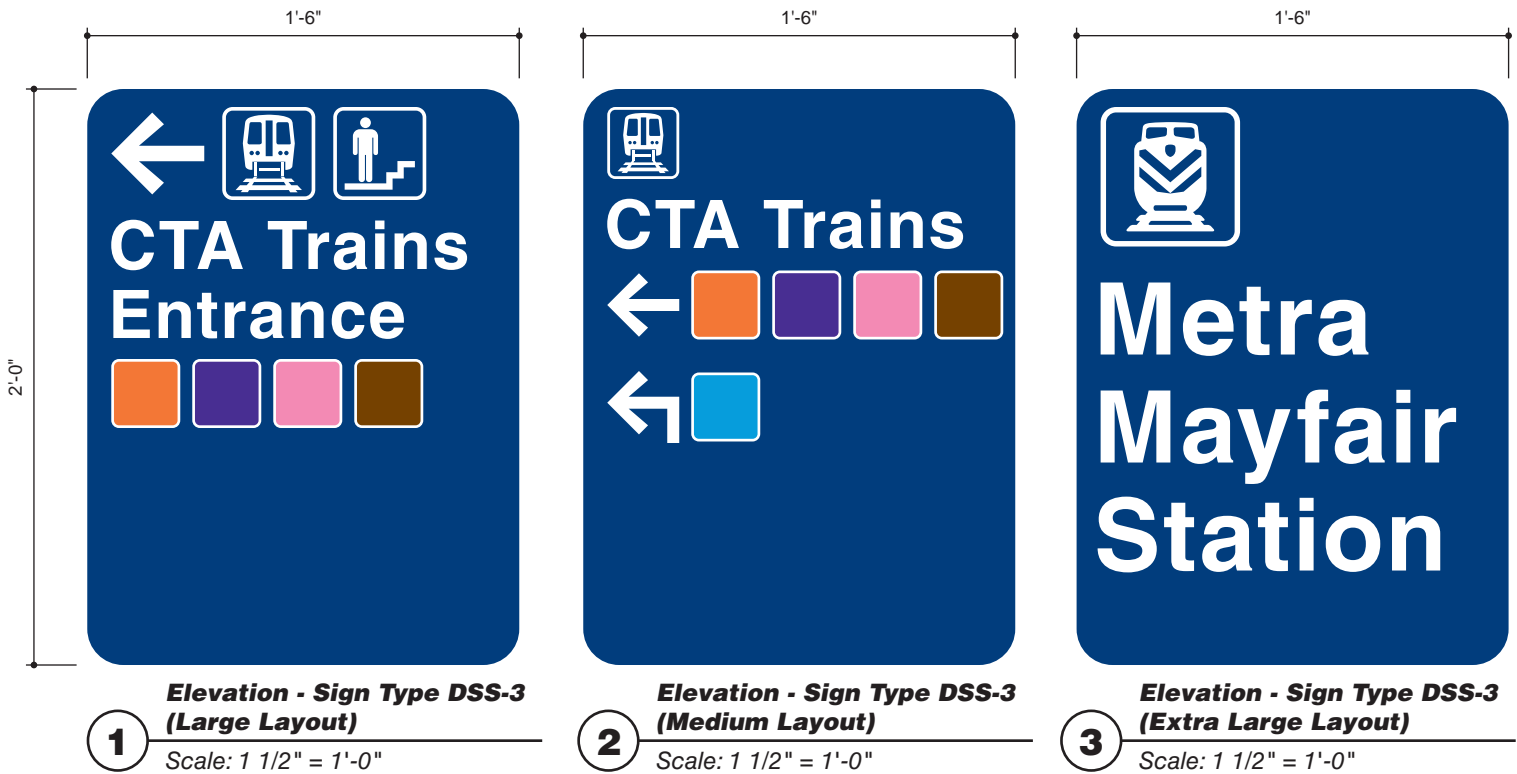
5 Mounting Brackets

DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.

SECTION D3 Directional Street Signs

Sign Type DSS-3

Design and Layout Notes



Description

General Design and Layout Information – DSS Signs

- DSS sign size shall be coordinated with site requirements and message content. Generally, DSS-3 shall be used unless its size is not appropriate for the conditions at the installation site and a smaller sign is needed, or the message content requires a larger sign be used. When more than one DSS sign appears at a single location, all the signs shall be the same panel size.
- Three typical message layout sizes are provided. "Large" layouts provide a 3 7/8" arrow, 3 7/8" symbol, and 2" text height. "Medium" layouts provide a 3" arrow, 3" symbol, and 2" text height. "Extra Large" layouts provide a 5 3/4" symbol and 3" text height. Select a large or medium layout based on the quantity of information to be displayed. The extra large layout is used only as a primary site identification sign.
- Messages are typically ordered as per the following general message hierarchy: 1)

Messages for CTA Trains, 2) Messages for Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.
- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.
- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered "up," "left," "right," and "down/behind".
- When all bus stops and / or CTA train lines listed under the message text are in the same

direction, place the arrow above the text, with the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

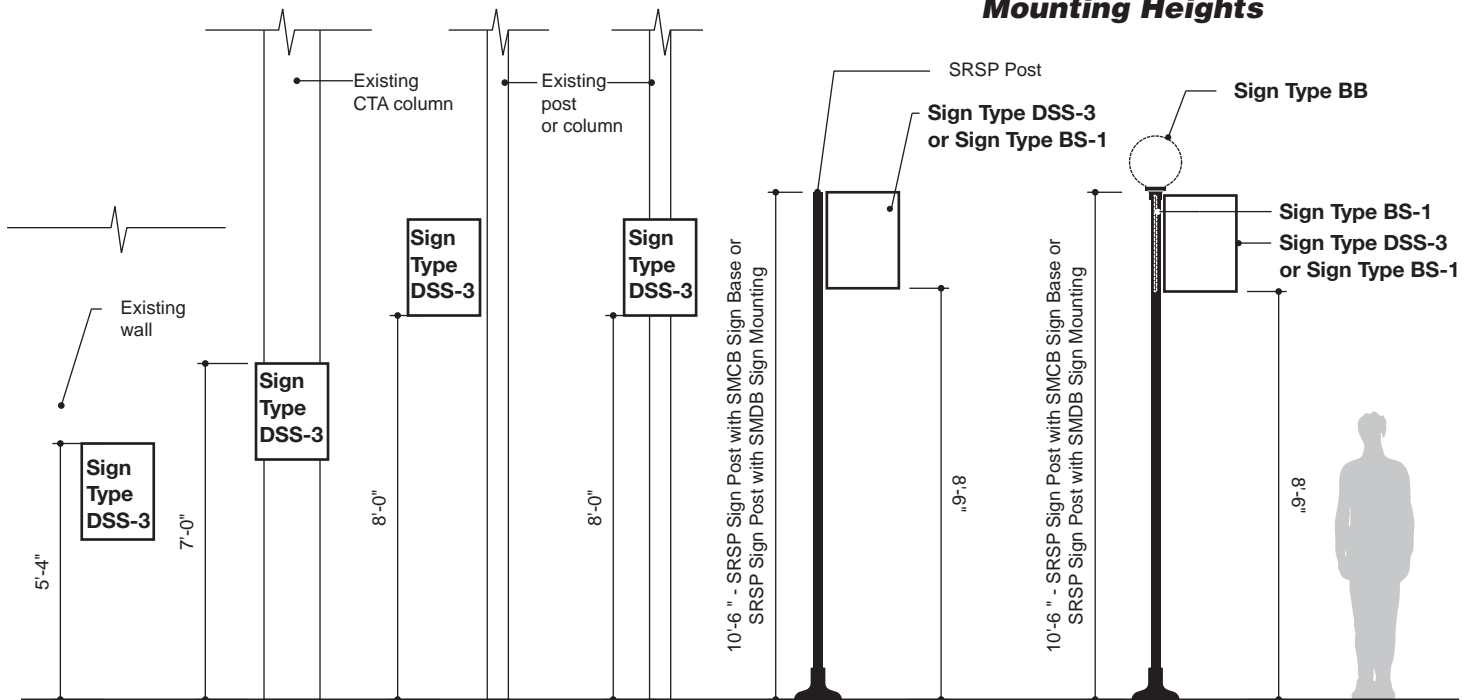
- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the text. Arrows and typography are flush left.
- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.
- Access symbols (elevator, stairs, etc.) are typically placed above the directional text to the right of the transit mode symbol.
- DSS signs must not be placed in locations that are inappropriate.
- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.



SECTION D3 Directional Street Signs

Sign Type DSS-3

Mounting Heights



When adding a DSS-3 or second BS-1 to a location with sign type BB and BS-1 already mounted to an SRSP sign post, mount all the DSS and BS sign panels at the same height.

1

Elevation - Sign Type DSS-3 Mounting Heights

Scale: 1/4" = 1'-0"

Description

Typical Mounting Heights for DSS-3 and BS-1 Sign Types

Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Post or column mounted signs must meet ADA Guidelines for Protruding Objects. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract drivers or cyclists. All locations shall be

examined on site to determine the final mounting height.



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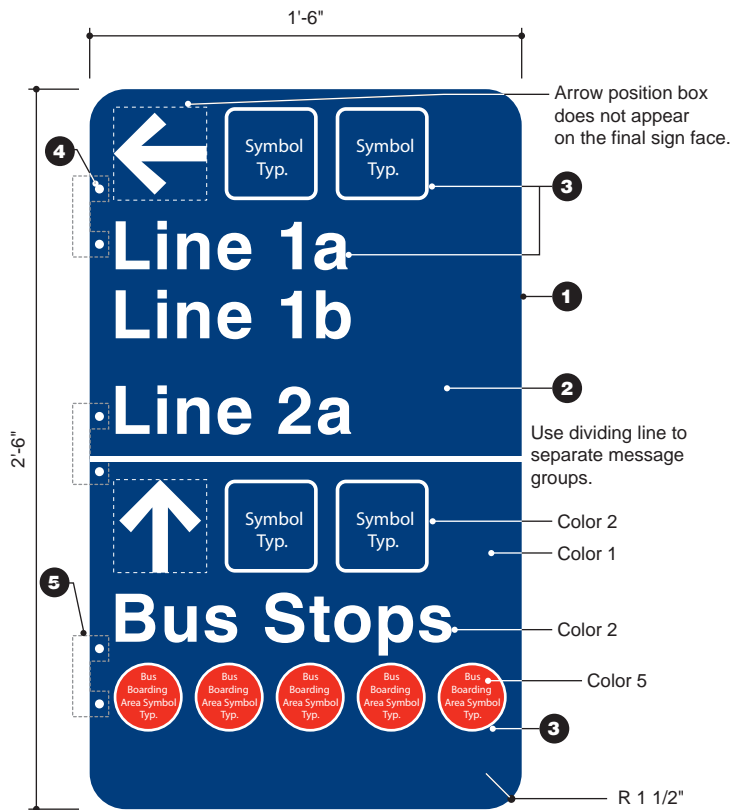
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04.17.19

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D3.35

SECTION D3 Directional Street Signs

Sign Type DSS-4

General Information



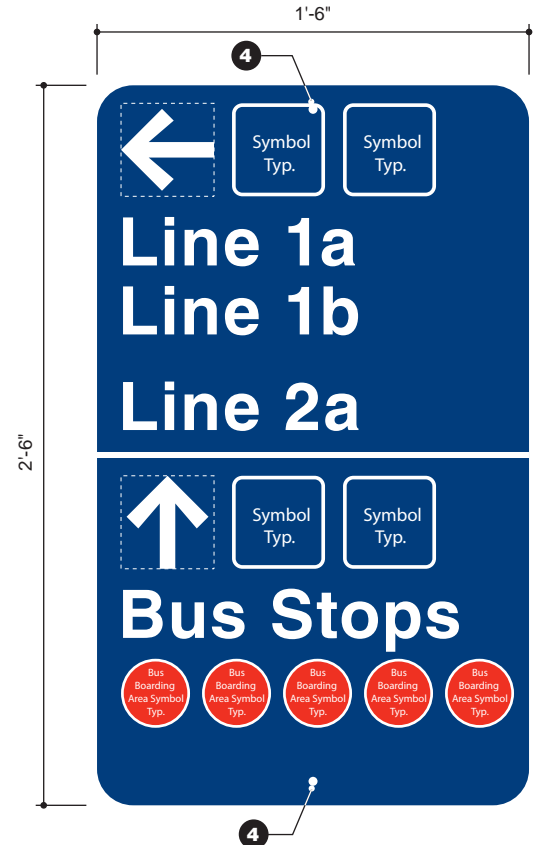
1 Elevation - Sign Type DSS-4 - Side Mounting

Scale: 1 1/2" = 1'-0"

Sign Post and Sign Mounting Information:

For locations where DSS signs are mounted to new sign posts, see Part C, Section C4 for information on the sign posts and sign mounting brackets.

For locations where DSS signs are mounted to existing posts, see Part C, Section C4 for information on sign mounting brackets for use with existing posts.



2 Elevation - Sign Type DSS-4 - Center Mounting

Scale: 1 1/2" = 1'-0"

Description

General

Sign type DSS signs are aluminum, single or double-sided panels that provide directional information to pedestrians along sidewalks. The messages shown are for reference only. See the Message Schedule for the actual content scheduled for each DSS sign location, or, when directed to do so by the RTA, determine the required content.

Digital art for DSS signs may be provided by the RTA. When directed to do so by the RTA, prepare the digital art for the DSS sign face graphics. Digital template files shall be supplied by the RTA. Develop the required graphics using existing DSS sign types as precedents for layout. All new DSS graphics must be reviewed and accepted by the RTA prior to fabrication.

See page D3.37 for Design and Layout Notes.

1 Aluminum Sign Panel

The sign substrate is a .080" thick solid aluminum panel.

2 Background

The overall background of the sign and the white text and graphics shall be an exterior-grade, premium cast white printable graphic film. Double sided panels shall have the printed film applied to both sides of the panel. Single sided panels shall have the printed film applied to the face side of the sign and the back side of the sign shall be painted color 1.

3 Digitally Printed Graphics

The graphics shall be digitally printed at high resolution directly onto the graphic film using custom formulated, exterior grade, UV-resistant, opaque inks. The inks shall be formulated to match the colors specified and to be compatible with the graphic film. Protect printed graphics with a clear protective

anti-graffiti overlamine that is compatible with the graphic film and the printed graphics. The printed graphic film and overlamine shall be applied to cover the entire sign face and trimmed flush to the edges of the sign panel.

4 Holes for Mounting Hardware

Coordinate the location and size of mounting holes with the type of bracket or other mounting hardware to be used with the sign. See page D3.4 for mounting hole location information. All holes shall be drilled in the shop.

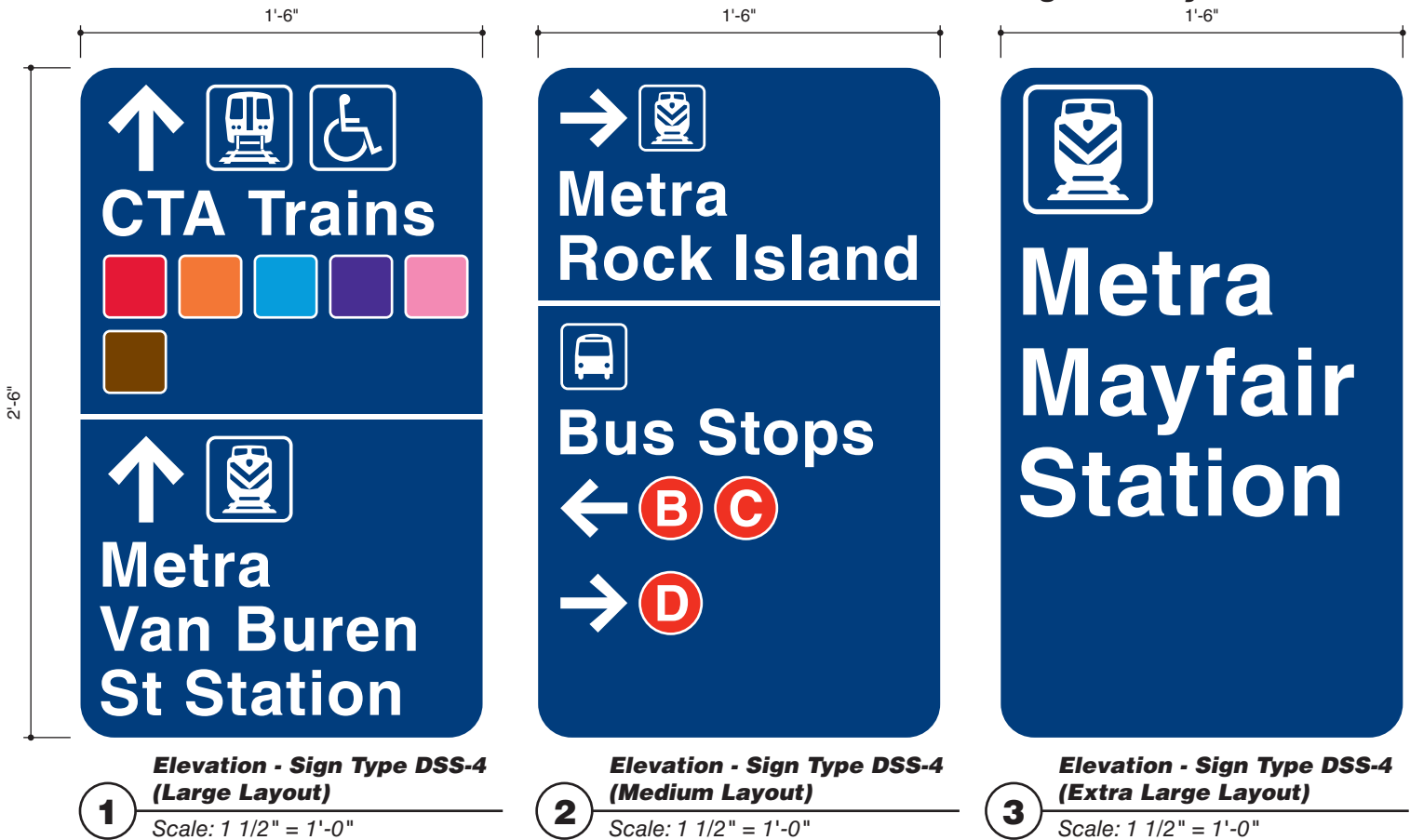
5 Mounting Brackets

DSS signs can be mounted to new sign posts or to existing sign posts or other existing structures. Coordinate the type of mounting bracket with the type of sign post and other mounting conditions at each installation location. See Section C4 for additional information on sign posts and sign mounting brackets.

SECTION D3 Directional Street Signs

Sign Type DSS-4

Design and Layout Notes



Description

General Design and Layout Information – DSS Signs

- DSS sign size shall be coordinated with site requirements and message content. Generally, DSS-4 shall be used where the message content requires a sign larger than DSS-3, and the DSS-4 is appropriate for the conditions at the installation location. When more than one DSS sign appears at a single location, all the signs shall be the same panel size.
- Three typical message layout sizes are provided. "Large" layouts provide a 3 7/8" arrow, 3 7/8" symbol, and 2" text height. "Medium" layouts provide a 3" arrow, 3" symbol, and 2" text height. "Extra Large" layouts provide a 5 3/4" symbol and 3" text height. Select a large or medium layout based on the quantity of information to be displayed. The extra large layout is used only as a primary site identification sign.
- Messages are typically ordered as per the following general message hierarchy: 1) Messages for CTA Trains, 2) Messages for

Metra Trains, 3) Messages for Buses, and 4) other directional messages (see page D1.2 for additional information regarding message hierarchy). To meet special wayfinding requirements, the message hierarchy may be revised.

- When CTA train lines are displayed, use symbols that show the line color and line name whenever possible. If there is limited space, use the train line symbols that only show line color.
- If multiple message groups are placed on a single sign panel, separate the message groups with a line. Message groups include CTA train messages, Metra messages, bus messages, and other directional information.
- On signs with more than one arrow for a single message group, the messages within the group are typically arranged with the arrows ordered "up", "left", "right", and "down/behind".
- When all bus stops and / or CTA train lines listed under the message text are in the same direction, place the arrow above the text, with

the transit mode symbol to the right of the arrow. Arrows and typography are flush left.

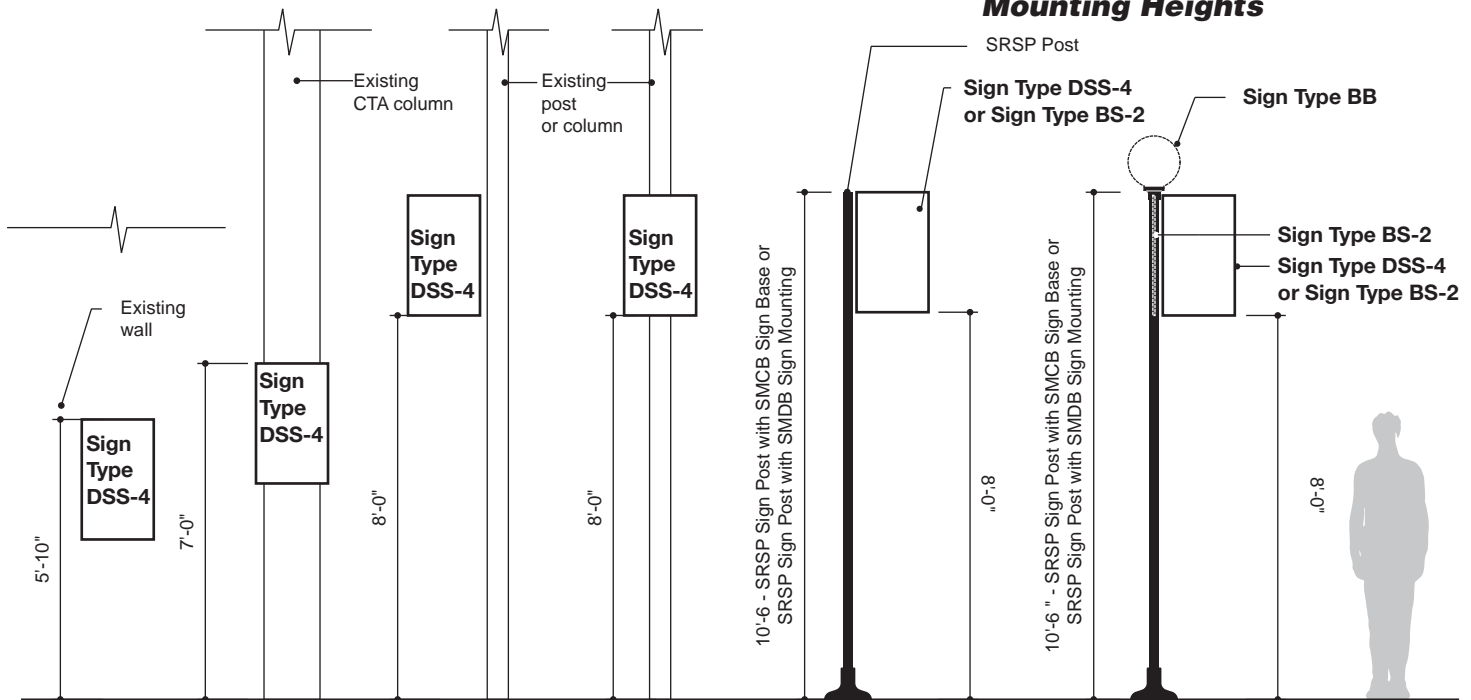
- If the CTA train lines are in different directions, place the arrows below the message text, to the left of the line symbols. Place the transit mode symbol above the message text. Arrows and typography are flush left.
- If bus stops are in different directions, place the arrows below the message text, to the left of the bus stop symbols. Place the transit mode symbol above the text. Bus stop symbols and their associated arrows are ordered so that the bus stop symbols appear in alphabetical order. Arrows and typography are flush left.
- Access symbols (elevator, stairs, etc.) are typically placed above the text to the right of the transit mode symbol.
- DSS signs must not be placed in locations that are inappropriate.
- DSS signs must not be placed in locations where they may confuse or distract drivers or cyclists.



SECTION D3 Directional Street Signs

Sign Type DSS-5

Mounting Heights



When adding a DSS-4 or second BS-2 to a location with sign type BB and BS-2 already mounted to an SRSP sign post, mount all the DSS and BS sign panels at the same height.

1

Elevation - Sign Type DSS-4 Mounting Heights

Scale: 1/4" = 1'-0"

Description

Typical Mounting Heights for DSS-4 and BS-2 Sign Types

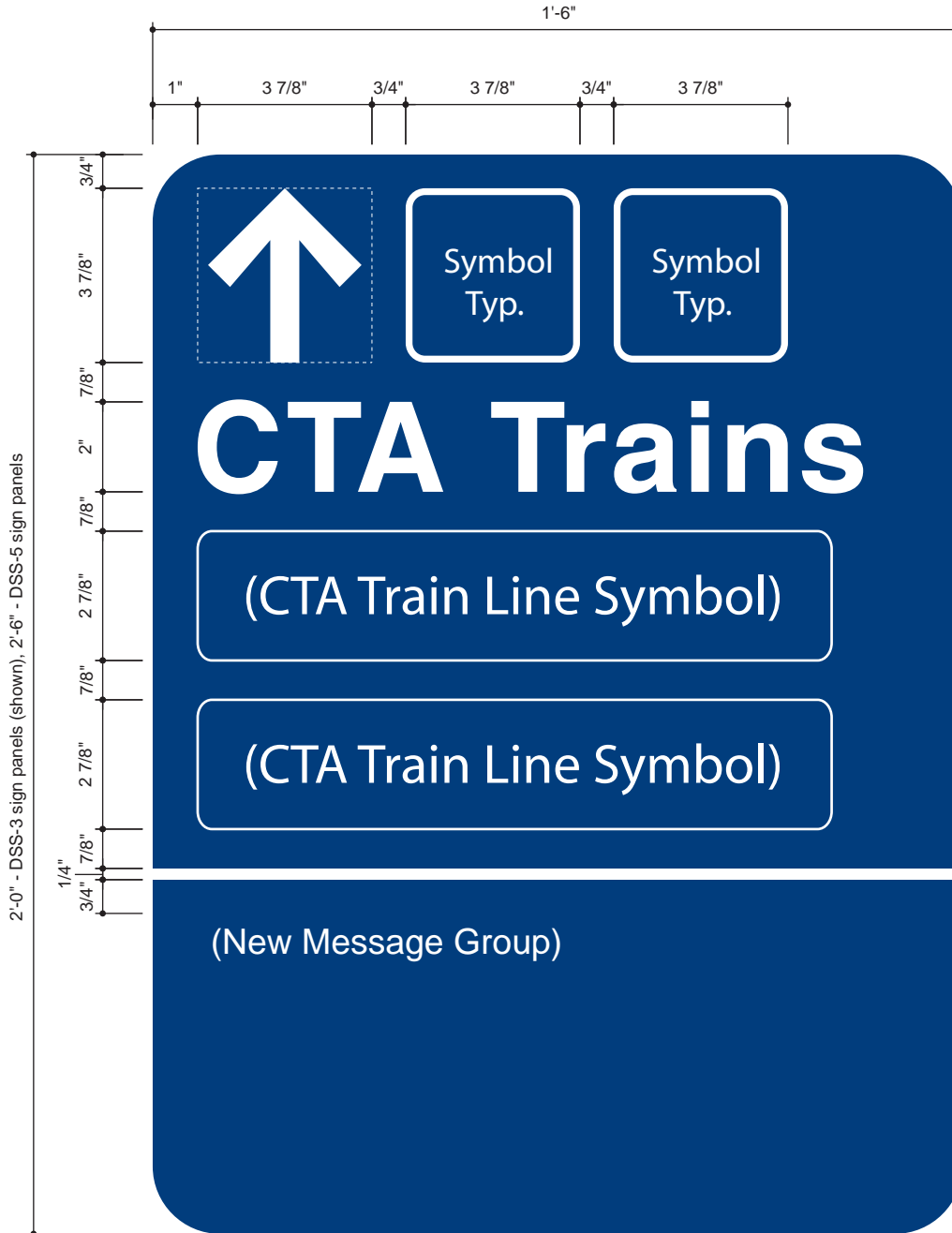
Typical mounting heights are shown above. Mounting heights may need to be adjusted due to site conditions. Post or column mounted signs must meet ADA Guidelines for Protruding Objects. Signs must be located so that they can be seen and read by pedestrians without creating a hazardous situation. There must be adequate space around the sign for pedestrians to stand and read the information on the sign. There must also be adequate space for pedestrians to safely circulate around the sign. Signs must not be located close to streets so that pedestrians do not inadvertently step into traffic when walking around the sign or when walking around other pedestrians as they are viewing the sign. Signs must not be placed in locations where they may confuse or distract drivers or cyclists. All locations shall be

examined on site to determine the final mounting height.

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Large” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, CTA 'L' line symbols with line names.

1 Elevation - Sign Types DSS-3 and 4 - CTA Train Message “Large” Layouts

Scale: 3" = 1'-0"



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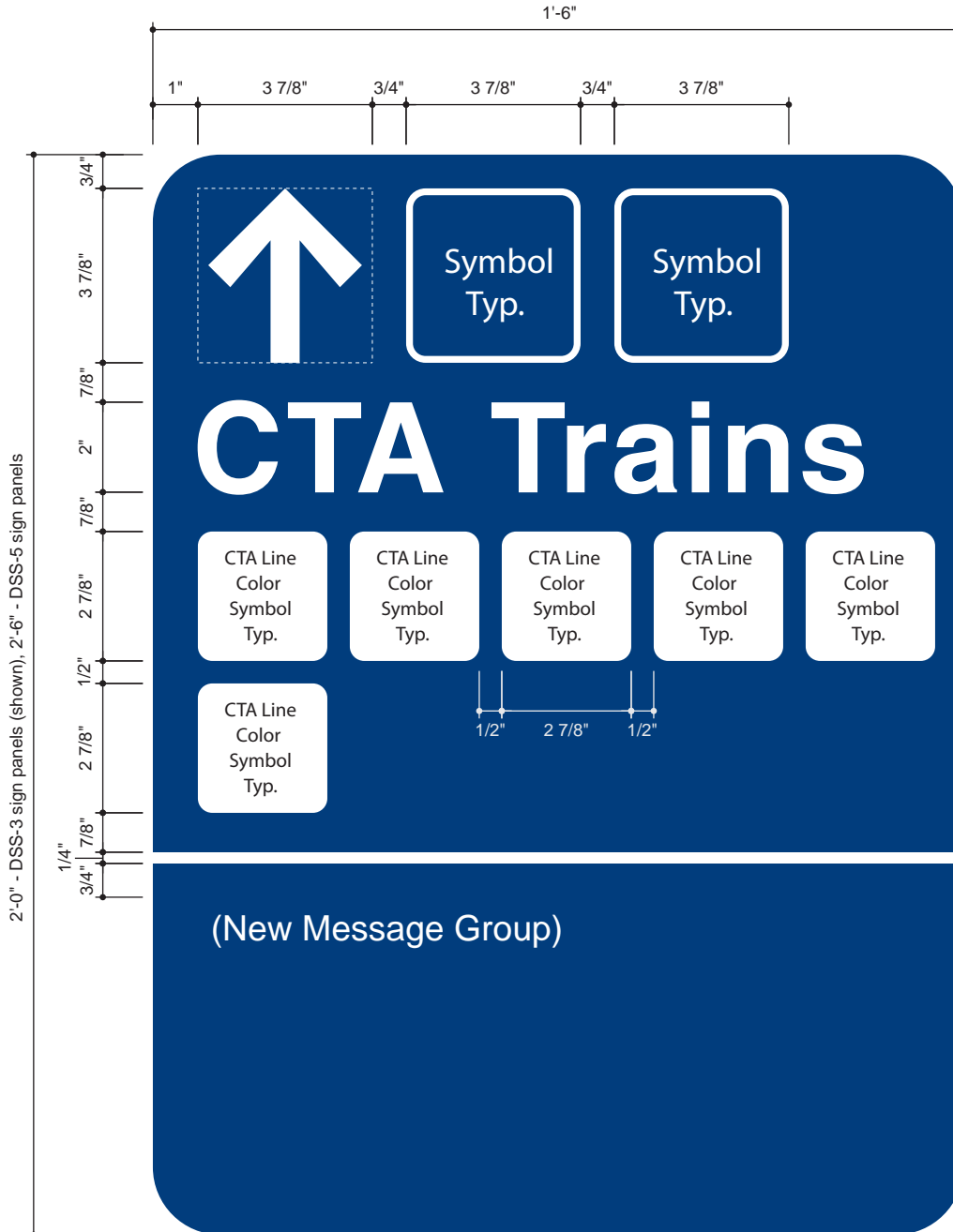
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04.17.19

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SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Large” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, multiple square CTA ‘L’ line symbols

1 Elevation - Sign Types DSS-3 and 4 - CTA Train Message “Large” Layouts

Scale: 3" = 1'-0"

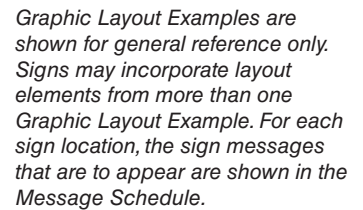


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Standards Manual

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04.17.19

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D3.40

“Large” Graphic Layout Example



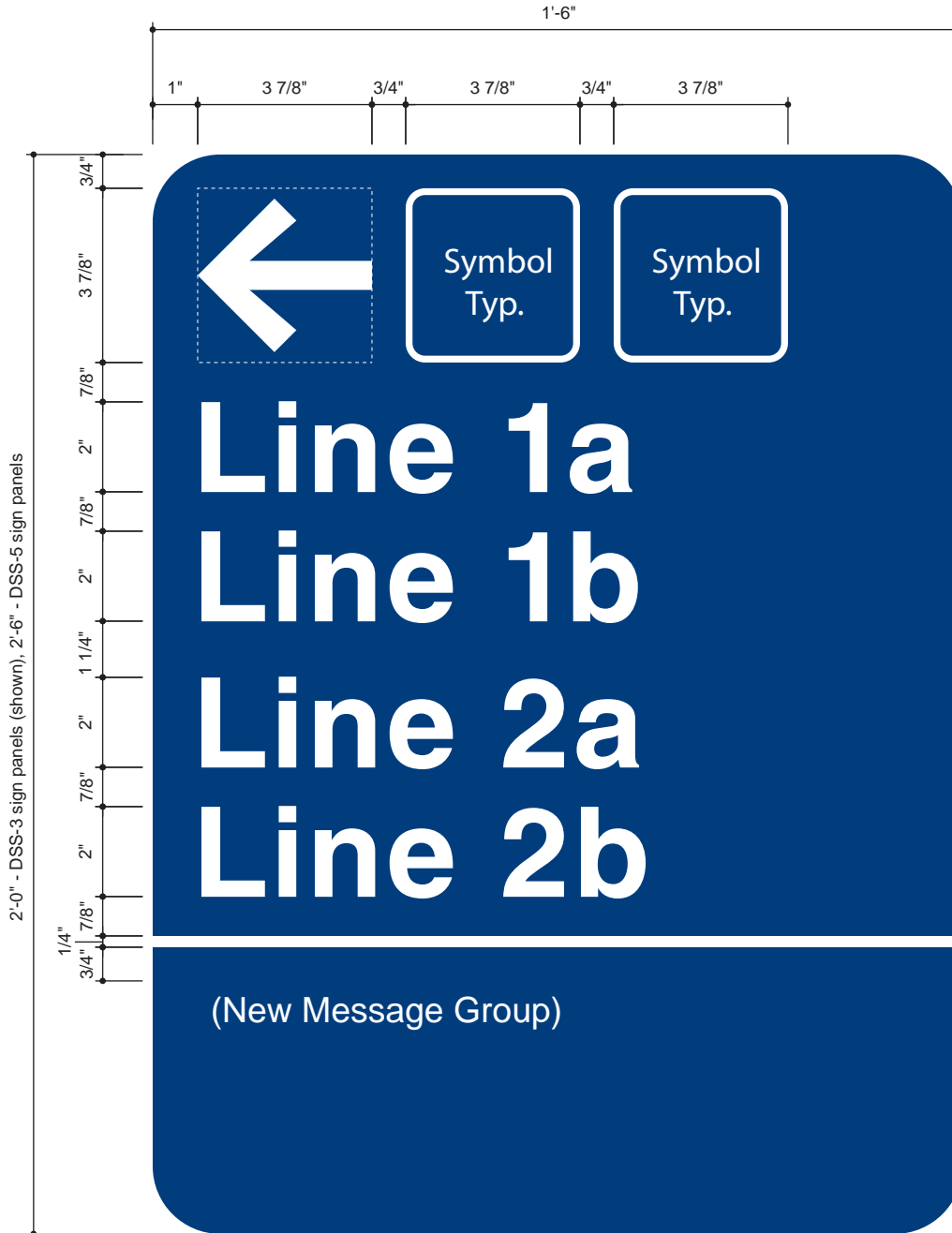
Multiple arrows, square CTA 'L' line symbols

1 Elevation - Sign Types DSS-3 and 4 – CTA Train Message “Large” Layouts

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Large” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, one or multiple messages.

For Metra directionals, use this layout when there is one or more station in the same direction.

1

Elevation - Sign Types DSS-3 and 4 - Metra Train / General Text Message “Large” Layouts

Scale: 3" = 1'-0"



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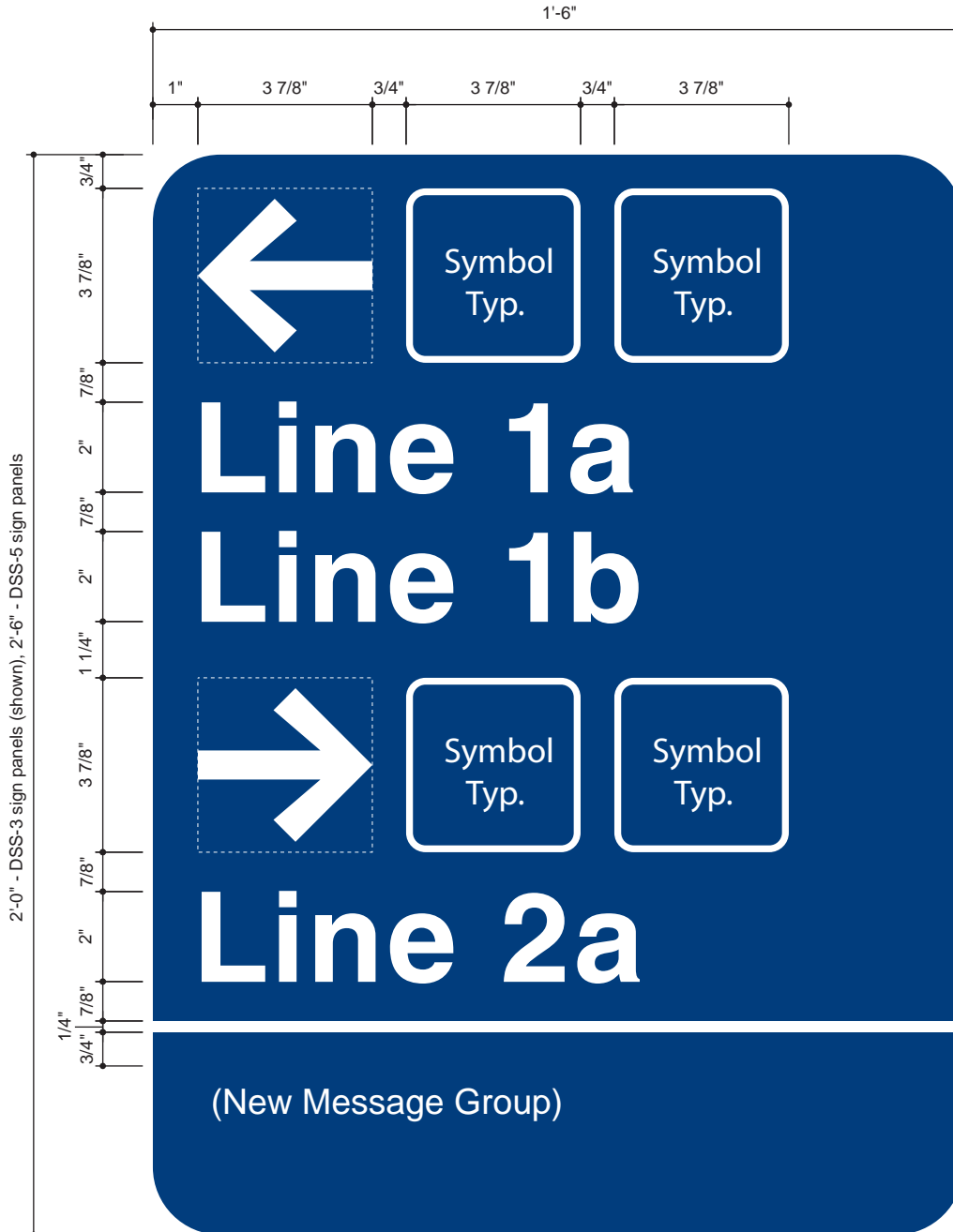
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04.17.19

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D3.42

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Large” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

Multiple arrows, multiple messages.

For Metra directionals, use this layout when there is more than one station in multiple directions.

1 Elevation - Sign Types DSS-3 and 4 - Metra Train / General Text Message “Large” Layouts

Scale: 3" = 1'-0"



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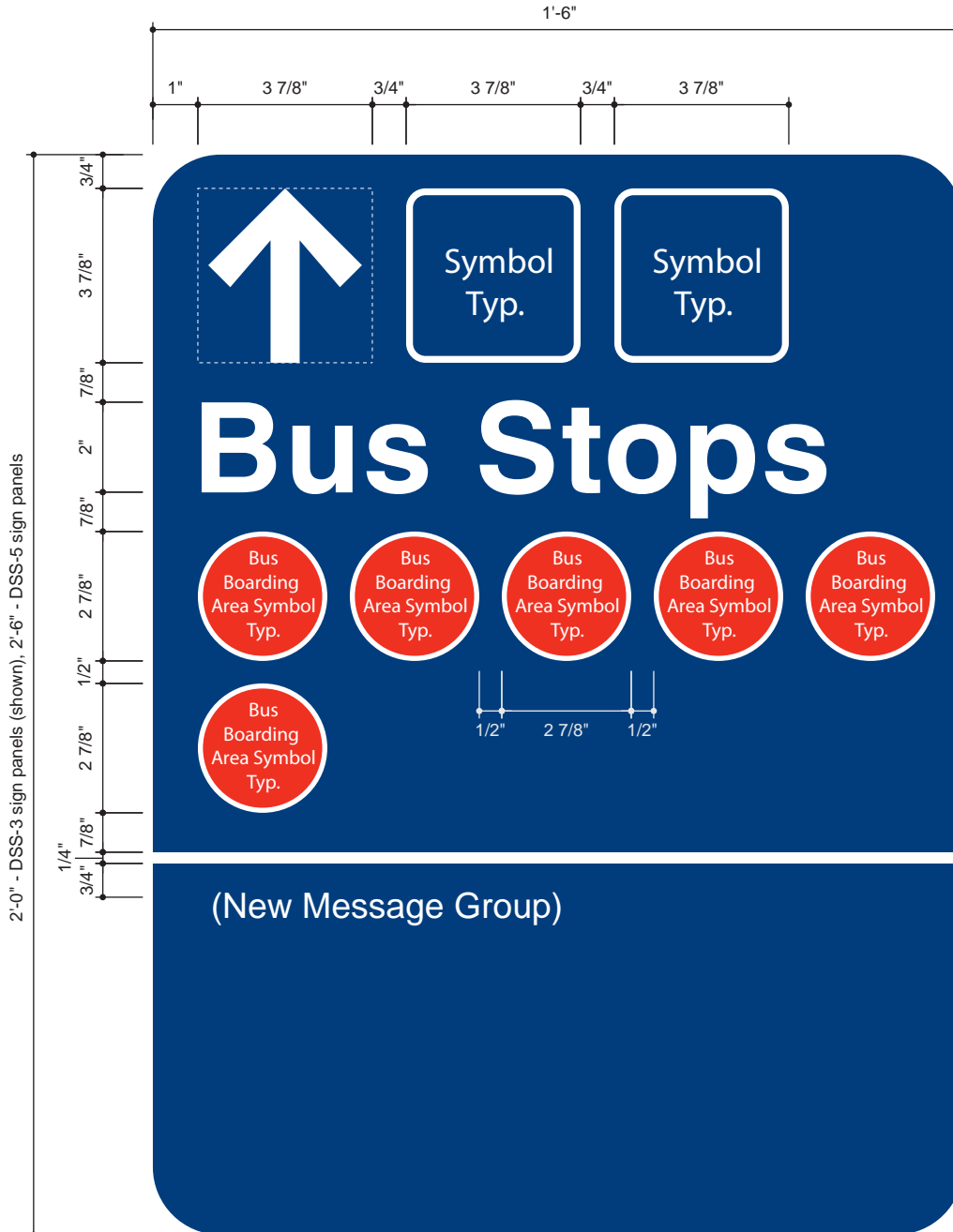
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04.17.19

Section D3
D3.43

SECTION D3 Directional Street Signs

"Sign Types DSS-3 and DSS-4

"Large" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, multiple bus boarding area symbols

1 Elevation - Sign Types DSS-3 and 4 - Bus Message "Large" Layouts

Scale: 3" = 1'-0"



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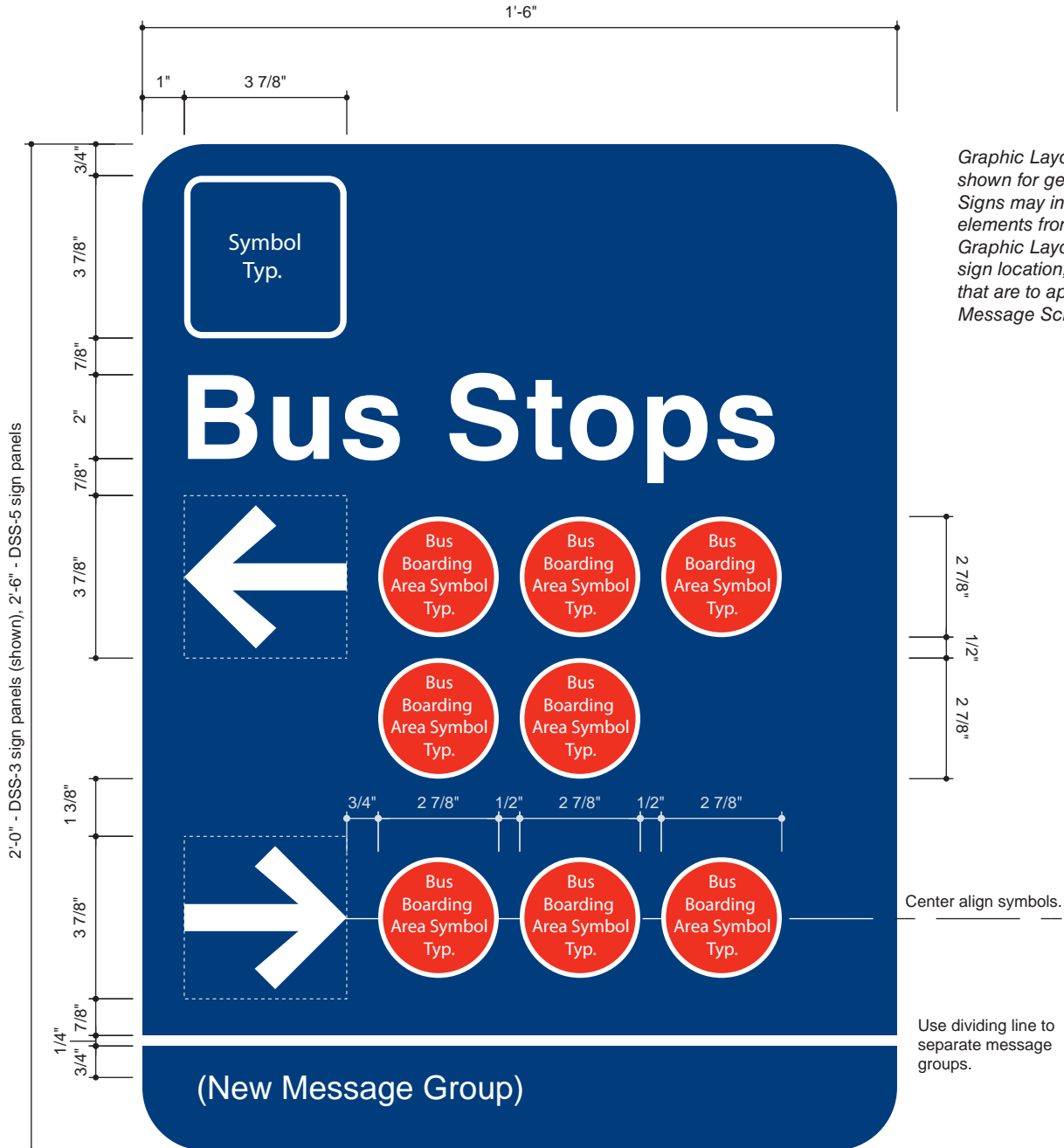
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Section D3
D3.44

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Large” Graphic Layout Example



Multiple arrows, multiple bus boarding area symbols

1 Elevation - Sign Types DSS-3 and 4 - Bus Message “Large” Layouts

Scale: 3" = 1'-0"



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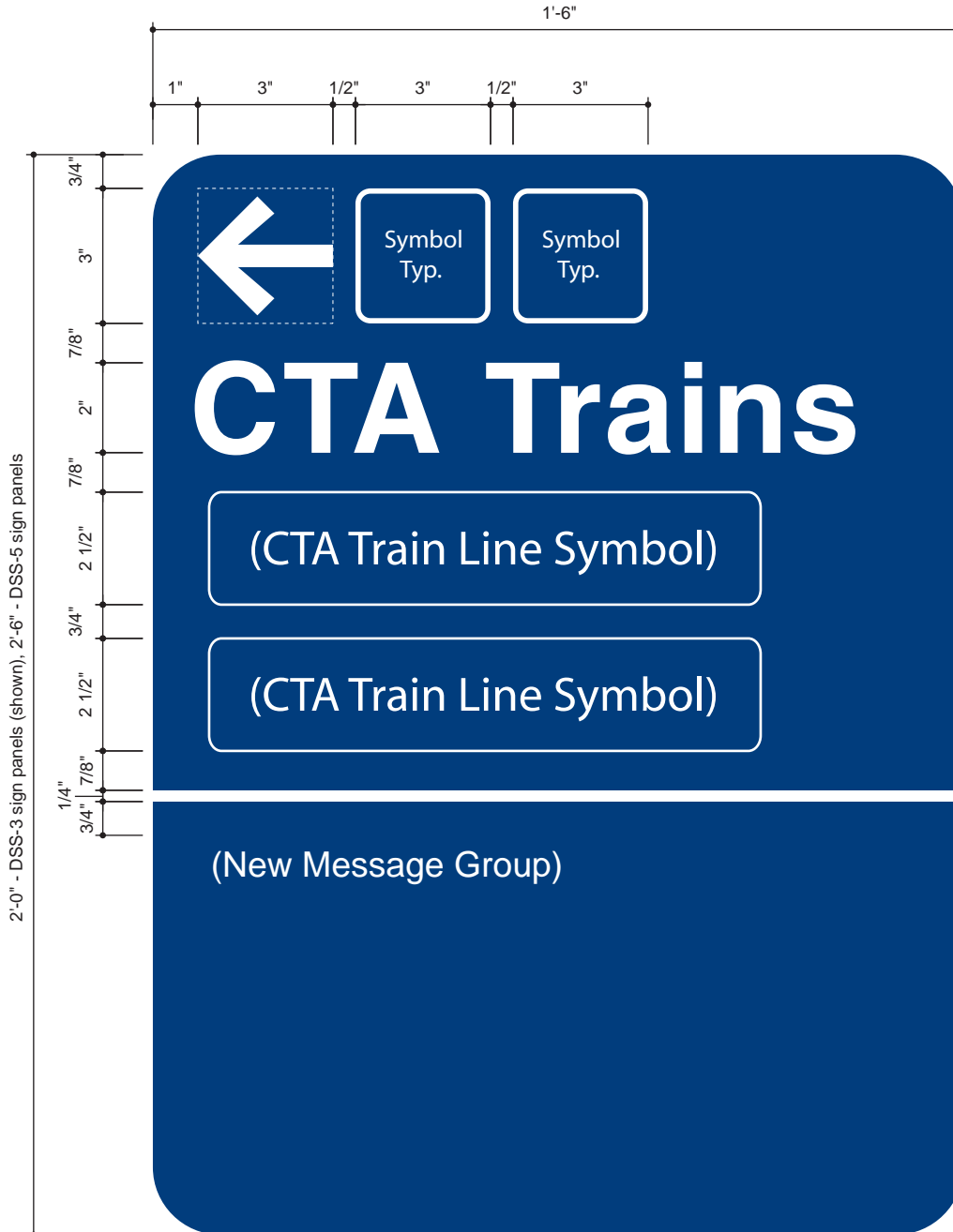
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Section D3
D3.45

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Medium” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, CTA 'L' line symbols with line names.

1 Elevation - Sign Types DSS-3 and 4 - CTA Train Message “Medium” Layouts

Scale: 3" = 1'-0"



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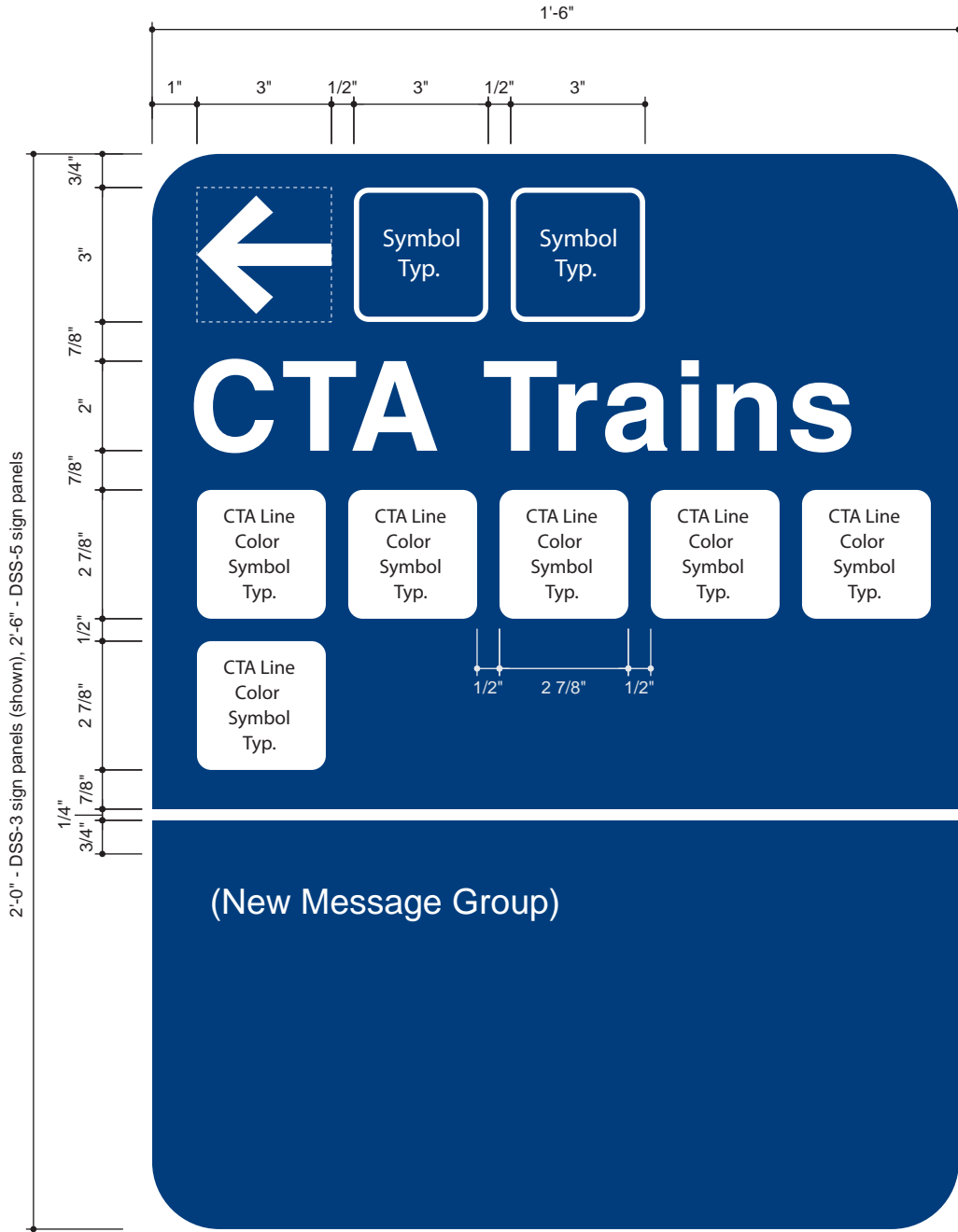
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04.17.19

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SECTION D3
Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Medium” Graphic Layout
Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, square CTA 'L' line symbols

1 Elevation - Sign Types DSS-3 and 4 - CTA Train Message “Medium” Layouts
Scale: 3" = 1'-0"



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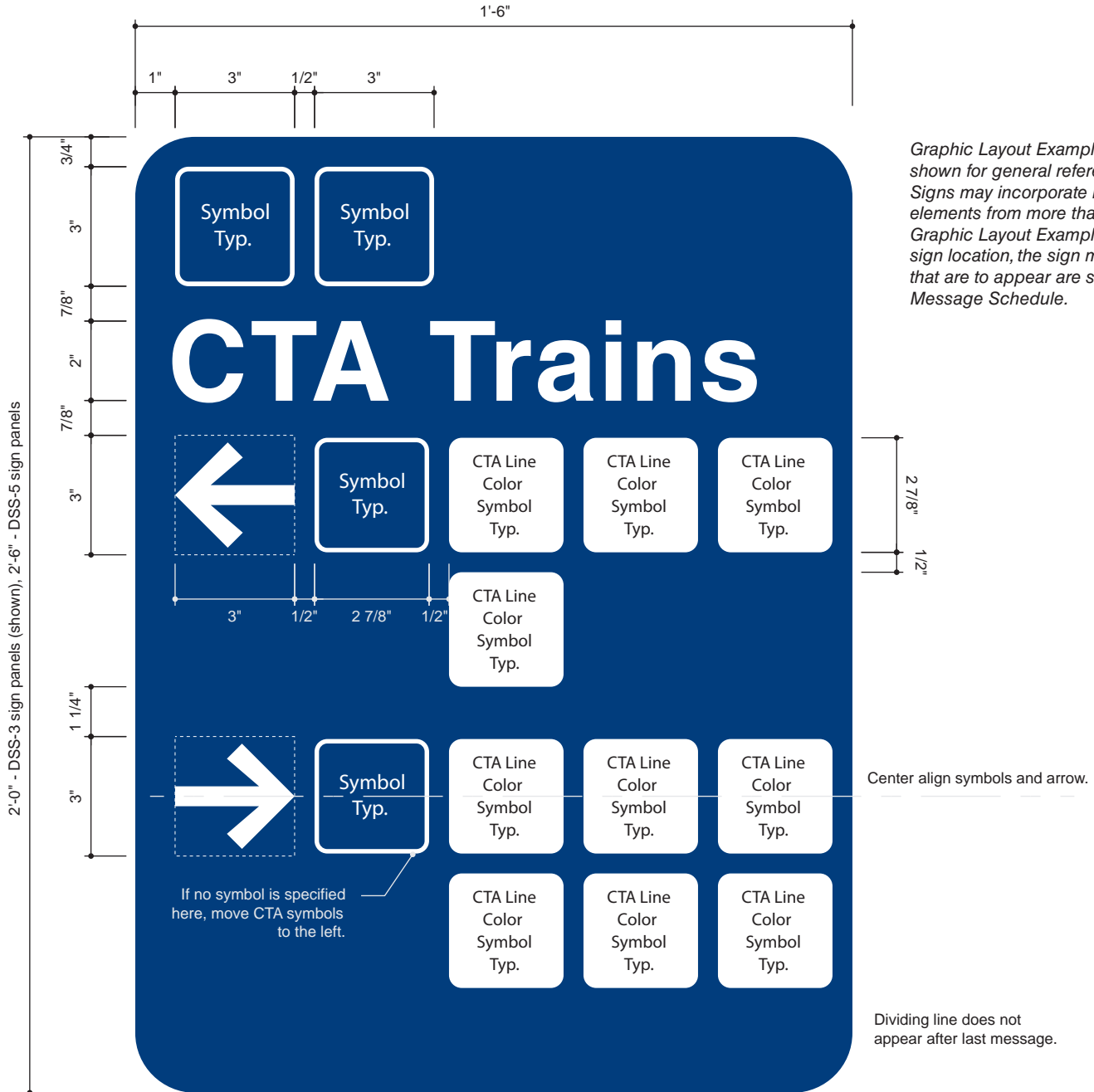
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04.17.19

Section D3
D3.47

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Medium” Graphic Layout Example

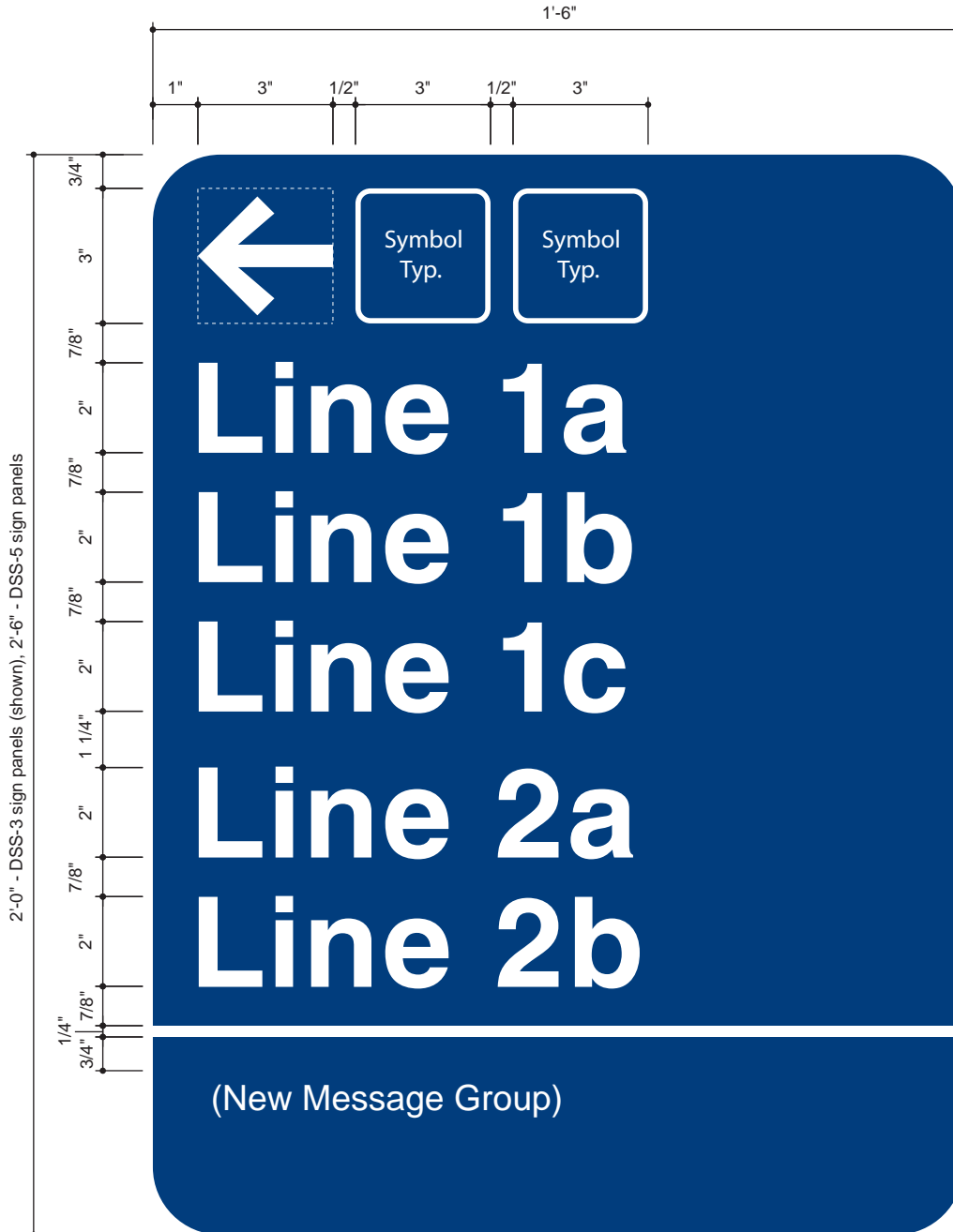


1 Elevation - Sign Types DSS-3 and 4 - CTA Train Message “Medium” Layouts
Scale: 3" = 1'-0"

SECTION D3 Directional Street Signs

"Sign Types DSS-3 and DSS-4"

"Medium" Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, one or multiple messages.

For Metra directionals, use this layout when there is one or more stations in the same direction.

1 Elevation - Sign Types DSS-3 and 4 - Metra Train / General Text Message "Medium" Layouts

Scale: 3" = 1'-0"



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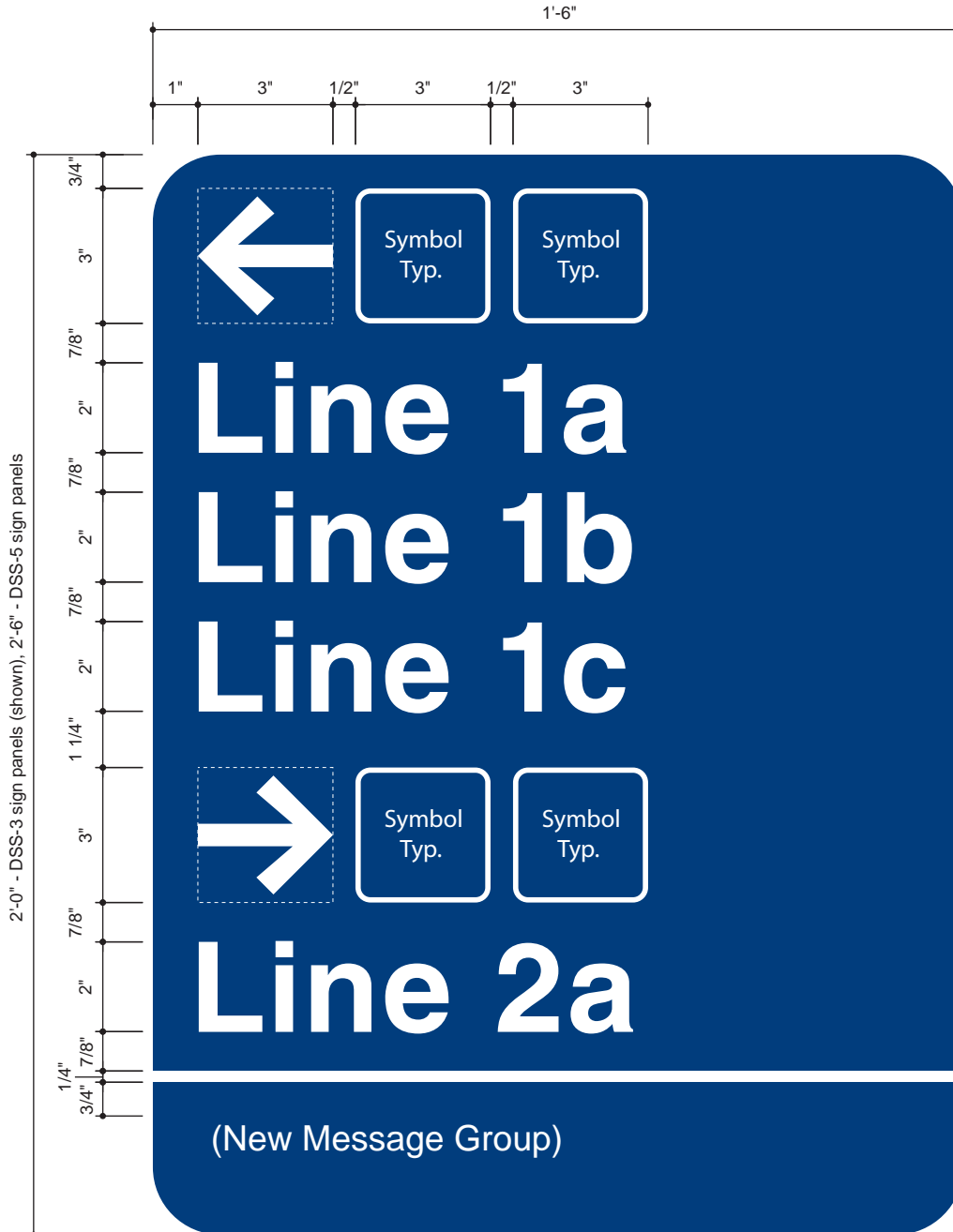
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Section D3
D3.49

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Medium” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

Multiple arrows, multiple messages.

For Metra directionals, use this layout when there is more than one station in multiple directions.

1 Elevation - Sign Types DSS-3 and 4 - Metra Train / General Text Message “Medium” Layouts

Scale: 3" = 1'-0"



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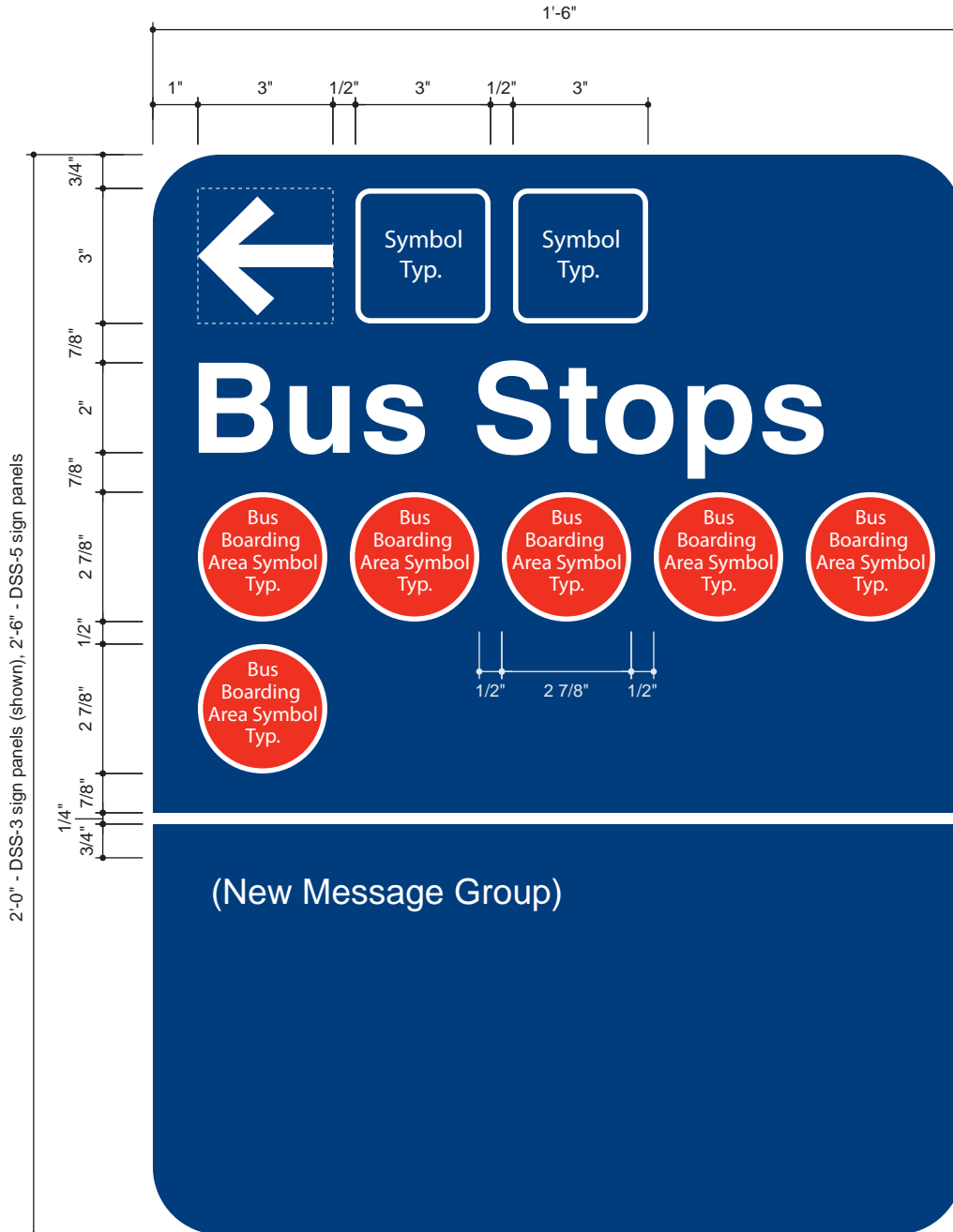
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Section D3
D3.50

SECTION D3 Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Medium” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Use dividing line to separate message groups.

One arrow, bus boarding area symbols symbols.

1 Elevation - Sign Types DSS-3 and 4 - Bus Message “Medium” Layouts

Scale: 3" = 1'-0"



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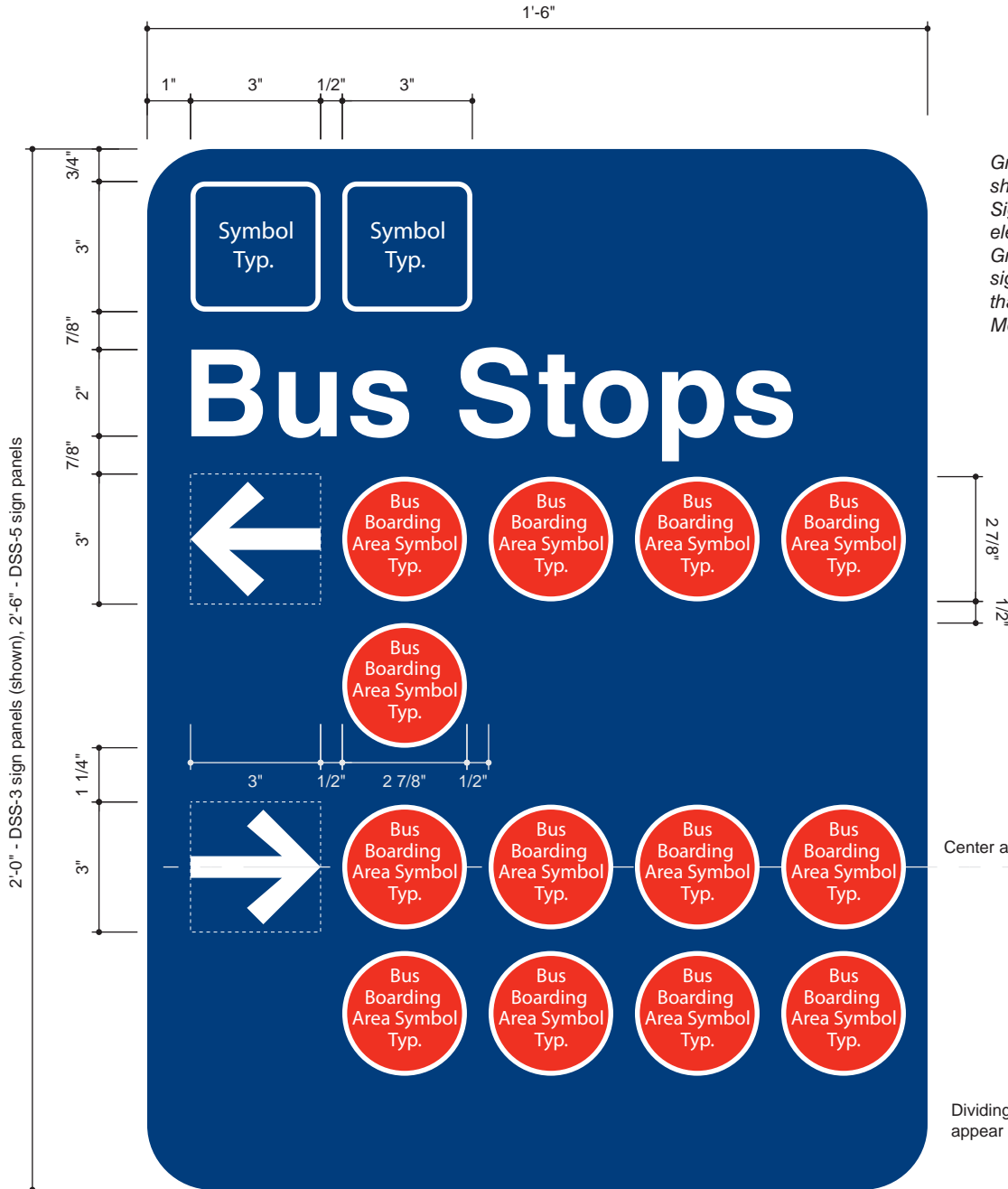
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04.17.19

Section D3
D3.51

SECTION D3 Directional Street Signs

"Sign Types DSS-3 and DSS-4"

"Medium" Graphic Layout Example



Multiple arrows, multiple bus boarding area symbols symbols.

1 Elevation - Sign Types DSS-3 and 4 - Bus Message "Medium" Layouts Scale: 3" = 1'-0"



RTA Interagency Signage
Standards Manual

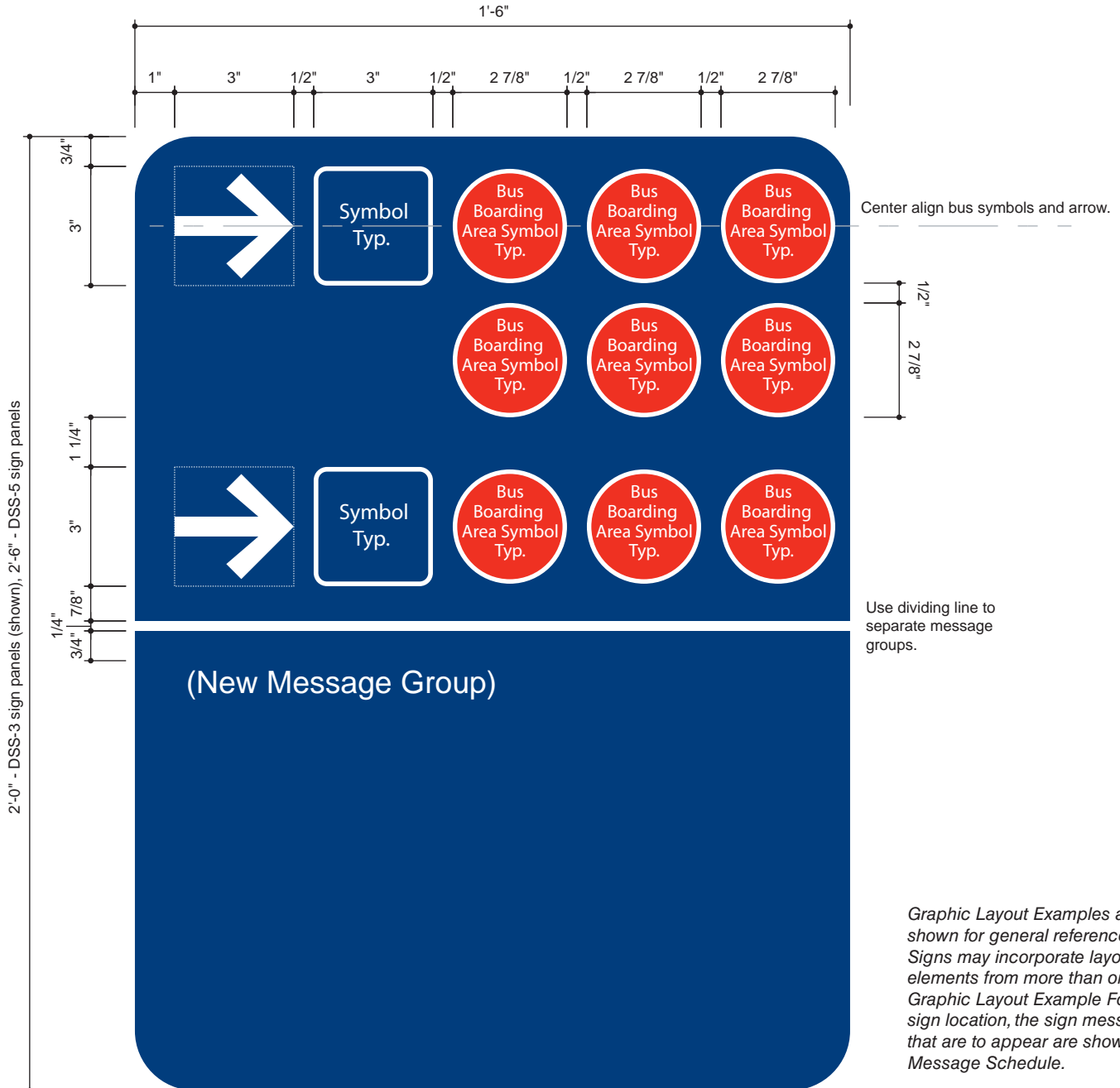
Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section D3
D3.52

SECTION D3 Directional Street Signs

"Sign Types DSS-3 and DSS-4

"Medium" Graphic Layout Example



Note: Use this layout only if there is not enough room on the sign panel to use a layout with text.

One or more arrows, bus boarding area symbols.

1 Elevation - Sign Types DSS-3 and 4 - Bus Message "Medium" Layouts

Scale: 3" = 1'-0"



RTA Interagency Signage
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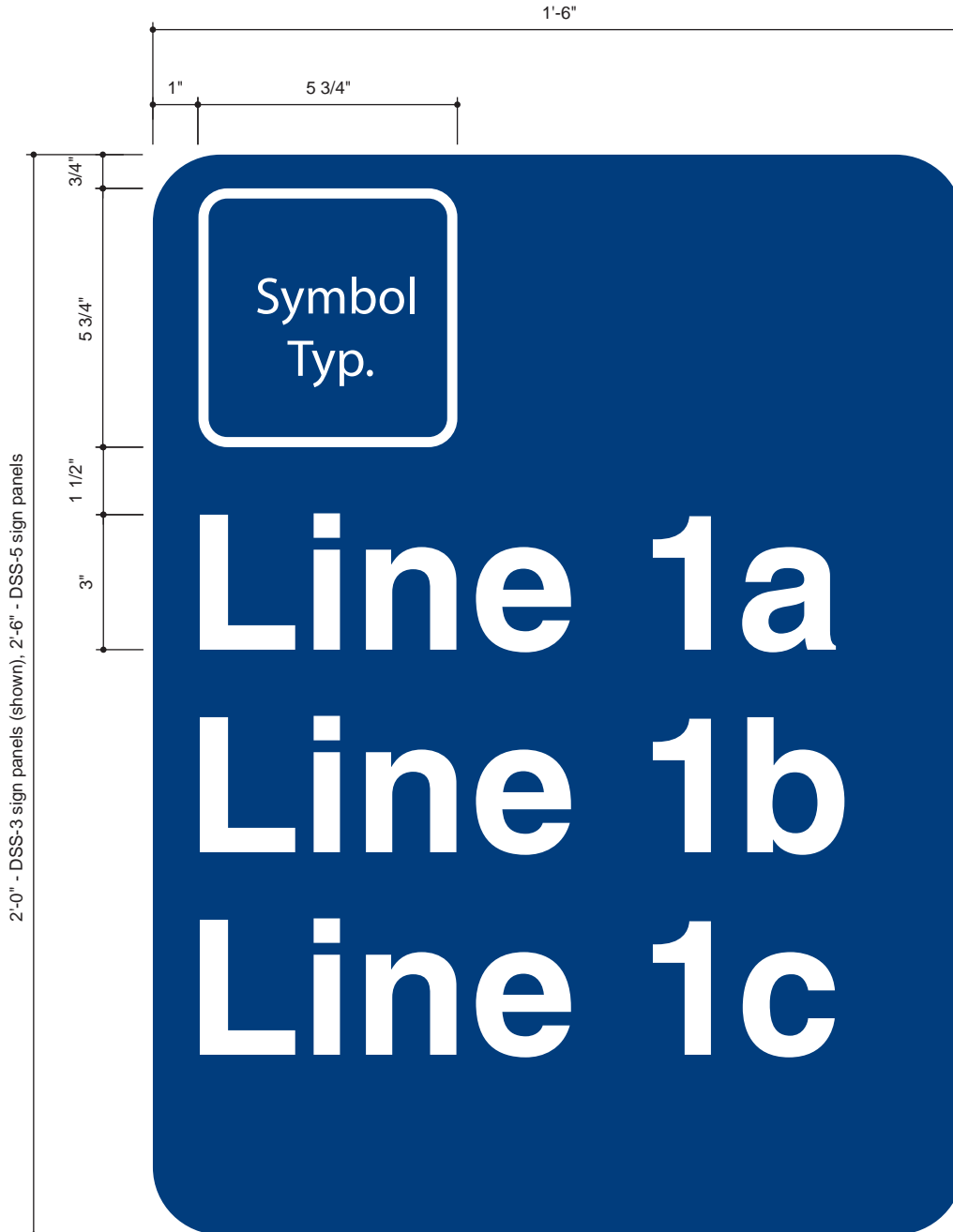
Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section D3
D3.53

SECTION D3
Directional Street Signs

“Sign Types DSS-3 and DSS-4

“Extra Large” Graphic Layout Example



Graphic Layout Examples are shown for general reference only. Signs may incorporate layout elements from more than one Graphic Layout Example. For each sign location, the sign messages that are to appear are shown in the Message Schedule.

Dividing line does not appear after last message.

No arrow, one message
Use this layout only for primary site identification.

1 Elevation - Sign Types DSS-3 and 4 – Metra Train / General Text Message “Extra Large” Layouts
Scale: 3" = 1'-0"



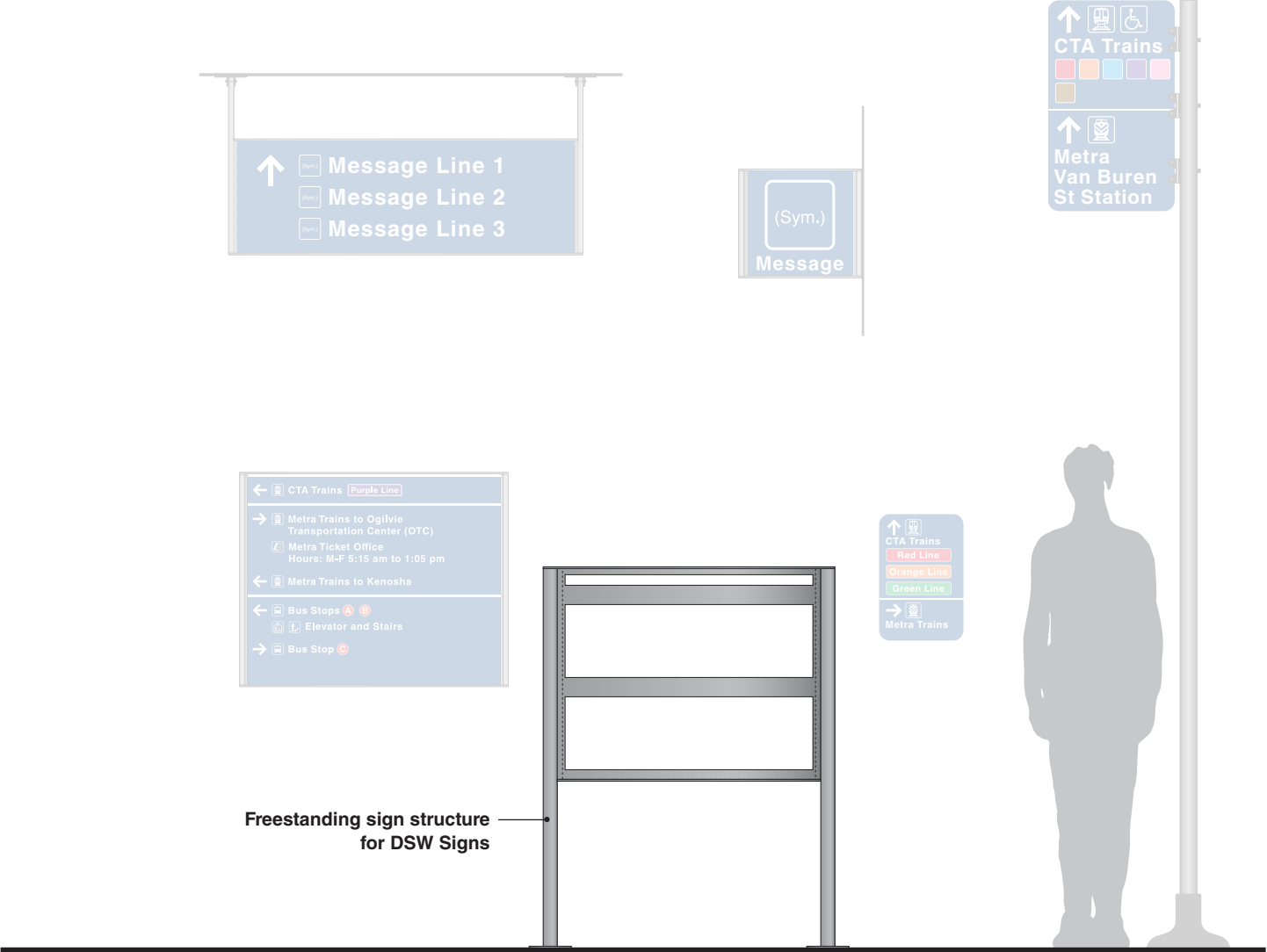
**RTA Interagency Signage
Standards Manual**

Date: 08.29.14
Revised: 07.22.16,
04.17.19

Section D3
D3.54

SECTION D4
Structures for Wall Signs

Section Introduction

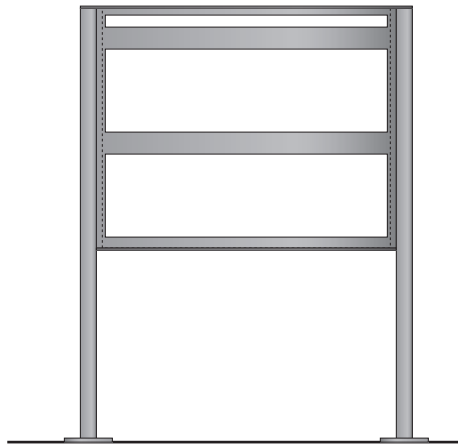


Description

General

Section D4 general reference.





SFD Sign Structure

Double sided with one DSW sign face panel per side.

SECTION D4
Structures for Wall Signs

Structure Overview

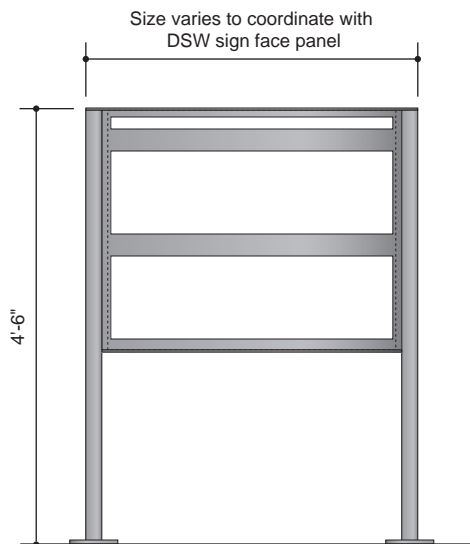
Description

General

The SFD sign structure supports two 1/2" thick DSW sign face panels.

Sign type DSW is described in Section D1.





SFD Sign Structure

SECTION D4 **Structures for Wall Signs**

Structure Size Summary

Description

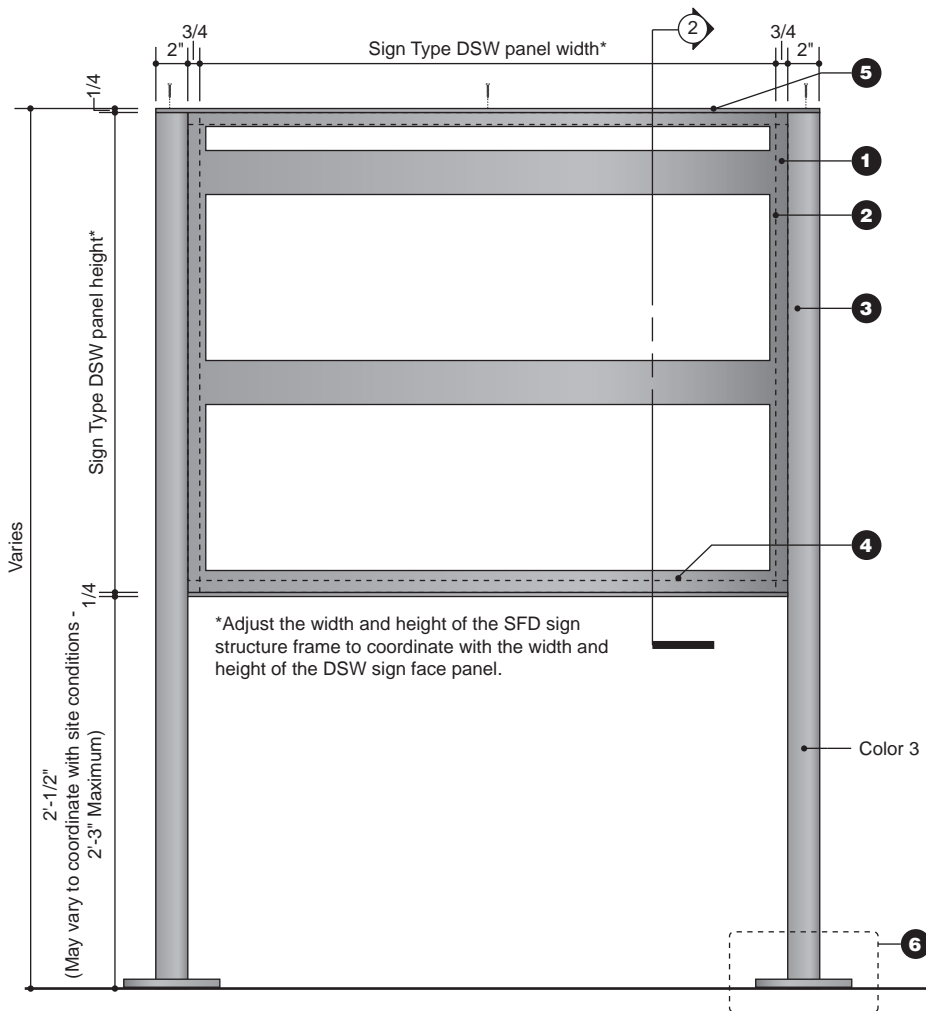
General

The SFD sign structure supports DSW sign face panels. The width of the SFD structure will vary to coordinate with the width of the DSW sign face panels.

To coordinate with site conditions and to maintain design intent, sign fabrication and mounting as outlined in these Guidelines may need to be revised.

See the Technical Specifications for additional information and requirements.



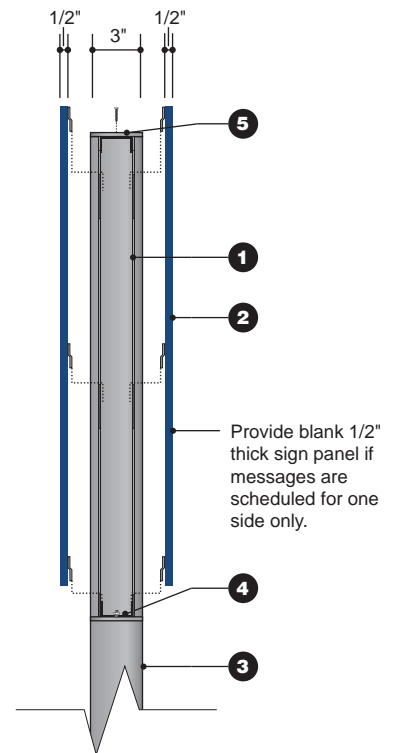


1 Elevation - SFD Sign Structure
Scale: 1" = 1'-0"

For Sign Face Layout Information:
See Section D1 for additional information on the types of messages that appear on sign type DSW and how to determine the correct size and layout for sign type DSW.

SECTION D4 Structures for Wall Signs

SFD Sign Structure



2 Section
Scale: 1" = 1'-0"

Associated Structure Mounting Information:
For information on mounting the SFD sign structure, see page D4.5 for additional information.

Description

General

The SFD sign frames are ground mounted, freestanding, sign support structures fabricated from aluminum. 1/2" thick sign type DSW sign panels are mounted to the SFD structures.

1 Aluminum Reveal Panel

Painted aluminum reveal panels support the removable sign face panels. The reveal panels are safely, securely, properly, and permanently mounted to the sign's internal framing. When the sign is complete, hardware shall not be visible on the reveal panels. The reveal panels shall have laser cut openings to accept the mounting clips on the backs of the sign face panels. Coordinate the size and location of the openings in the reveal panels with the sign panel mounting clips so that the clips properly engage with the reveal panels and so that the sign panels are safely, securely, and properly held in the correct position. Portions of the reveal panels will be visible between the sign

panels and the side bars.

2 DSW Series Sign Face Panels

1/2" thick sign type DSW sign face panels shall be mounted to both sides of the SFD frame with concealed hardware. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the DSW sign face panels for maintenance, repairs, and updates.

3 Aluminum Legs

Provide painted aluminum legs to properly, safely, and securely support the SFD structure and the sign types mounted to it. The tops of the legs shall be closed with flush aluminum caps. All welded frame joins shall be carefully ground smooth and painted for a seamless appearance and continuous finish.

4 Internal Framing

Provide internal framing and bracing as needed for the sign type SFD to be rigid and structurally sound and to properly, safely, and securely support the sign types mounted to the SFD frame. Internal framing shall not be visible when the DSW sign face panels are in position.

5 Removable Top Bar

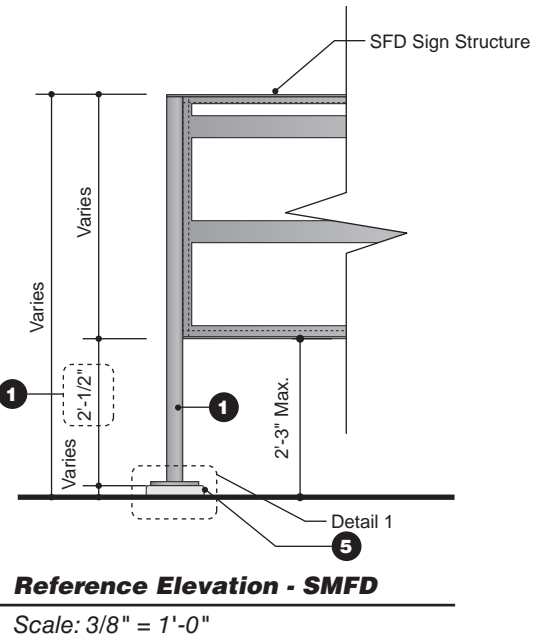
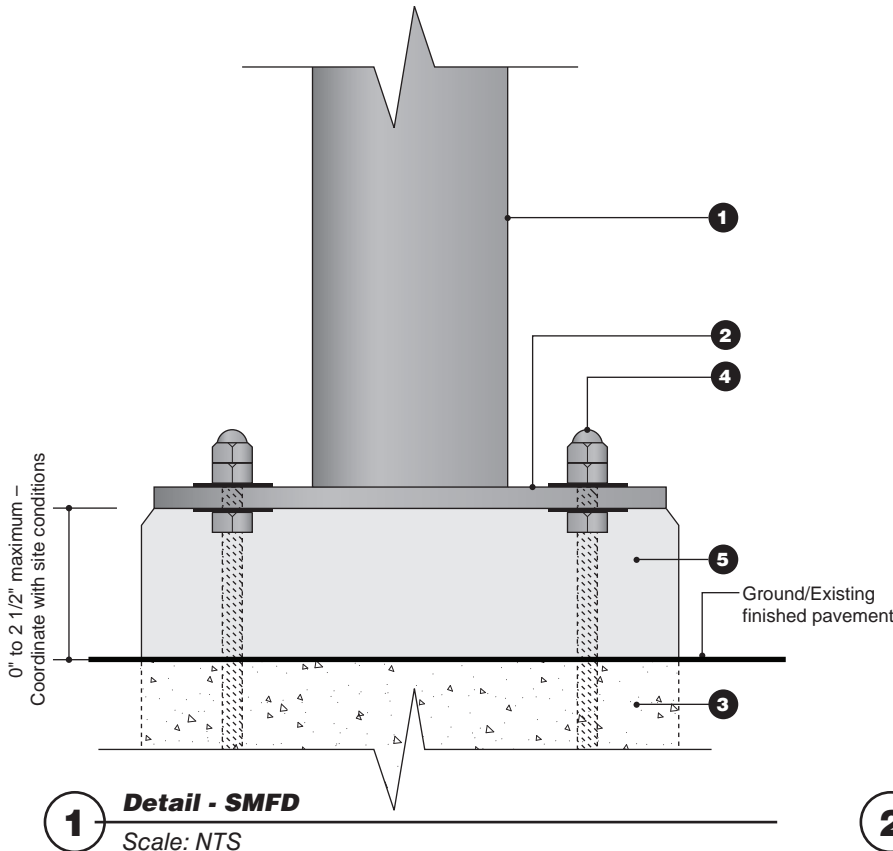
Removable painted aluminum bar locks the DSW panels in position. The bar shall be secured using flush, vandal-resistant, corrosion-resistant set screws.

6 Structure Mounting

Provide all mounting hardware and materials as needed to properly and securely mount the SFD sign structure. Coordinate the fabrication of the aluminum legs with the structure mounting and site conditions. See page D4.5 for additional information.

SECTION D4 Structures for Wall Signs

SMFD Structure Mounting



Associated Sign Structures:

The SMFD structure mounting can be used with the following sign structures:

SFD See page D4.4 for additional information.

Description

General

Structure mounting SMFD is for ground mounting the SFD sign structure.

1 Aluminum Legs From SFD Sign Structure

Coordinate the fabrication of the SFD sign structure with the SMFD sign mounting and foundation as needed to maintain the correct overall sign structure height and to not exceed the maximum distance from the ground to the bottom of the sign. Coordinate the SMFD structure mounting with the site conditions and the materials, finishes, and construction of the SFD aluminum legs as required. Prior to fabrication, inform the RTA of any conditions or locations that would cause the maximum distance from the ground to the bottom of the sign to be exceeded. The fabrication of the sign SFD sign structure may need to be revised to coordinate with the site conditions and to keep the distance from the ground to any point along the bottom of the sign at 2'-3" or less.

2 SFD Mounting Flanges

Provide an aluminum mounting flange for each of the legs of the sign structure. Weld the mounting flanges to the bases of the aluminum legs. All welded frame joins shall be carefully ground smooth and finished as needed for a seamless appearance and continuous finish. Size the mounting flanges as required to properly, safely, and securely support the entire sign.

3 Existing Floor / Pavement or New Concrete Foundations (if required)

If required, provide new, professionally engineered concrete foundations. Coordinate the size and type of foundations with the sign structure and with the existing conditions at each installation location. Coordinate the foundation with the required anchor bolts and mounting hardware as required to properly, safely, and securely anchor the entire sign. Verify on site the conditions at each installation location. At all locations, carefully finish exposed portions of the foundations to provide a neat, smooth, and finished appearance. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

4 Anchor Bolts & Mounting Hardware

Provide all anchor bolts and mounting hardware as needed to properly, safely, and securely mount the entire sign. Coordinate the anchor bolts and mounting hardware with the mounting surface and site conditions as required. Install signs plumb and level. Provide appropriate systems and set ups to accommodate uneven surfaces at installation locations. Provide leveling hardware as required. Secure the sign structure to the anchor bolts with appropriate locking nuts. Provide appropriate stainless steel acorn-type cap nuts, or similar finished stainless steel cap nuts accepted by the RTA, to finish the tops of the anchor bolts. Provide any additional bracing, framing, or other additional support and mounting components required to properly, safely, and securely support and install the entire sign.

5 Non-shrink Grout

Provide appropriate non-shrink grout to fill the space between the flanges and the tops of the foundations or finished floor / pavement as required.

PART E
Appendices



User Testing Information

The RTA engaged Centralis to conduct field-based user testing at two (Van Buren St and Davis St) of the four test locations for the Interagency Transit Passenger Information Design project. The goals of testing were to validate and help optimize final design and placement of signage based on several scenarios of transferring between different transit modes. A wide variety of participants were selected for the testing. The participants were asked how to navigate from one boarding location to another using the public transportation modes that were detailed on the interagency signage installed at the particular test location.

Key Findings from Centralis' Testing

- Participants felt that the interagency signage reflected well on Chicago as a city that cares about citizens and tourists.
- Overall, both wayfinding signs and map groupings were noticed and understood, with participants finding their destination much more easily than in previous testing. The consistent design and colors of the signage was appreciated.
- People were reassured by consistent wayfinding signage at close intervals, and only struggled at a 'decision point' if there was not a sign in immediate view. Participants expect clearer, easier to locate signage when moving from inside to outside when transferring to a different transit mode. Participants expect clear signage visible whenever they are required to make a turn when transferring to a different transit mode.
- Wayfinding signs organized by mode of transit functioned well, although sometimes they did not support awareness of the full range of choices within a mode of transit.
- Arrows and message dividing lines on directional signs proved to be confusing to some participants. The correct directional arrow was not always related to its correct directional message.
- While wayfinding signs provided information for those with limited mobility, it was sometimes overlooked because it was not connected closely enough to modes of transit. Certain map and schedule signs were placed too high for participants in wheelchairs to read all of the information on the sign. The type on some maps and schedules was too small for participants to easily read.
- Participants were less familiar with Metra conventions, and many felt that they would need additional signage to identify the correct platform for their direction of travel. Map signage should be placed adjacent to monitors.
- Most participants easily determined which map of a map grouping would be most useful for them, but had difficulty determining their current location on a chosen map due to the lack of a "you are here" indicator. Certain participants relied on wayfinding signage rather than maps to find their mode of transit, and others used the opposite approach. This results in maps being required at both the arrival and departure points. Train line maps should be orientated with north at the top. Multiple Metra train lines presented on a single map should be shown as separate routes. Add tourist destinations to maps.
- Participants continually missed references to bus boarding areas because they did not anticipate this convention and current signage did not emphasize it strongly enough.

Conclusion

As RTA's interagency signage and wayfinding program is expanded to new locations, the results from the user tests should be considered as new signs and graphics are developed and located.



APPENDIX E2
Legacy Sign Types

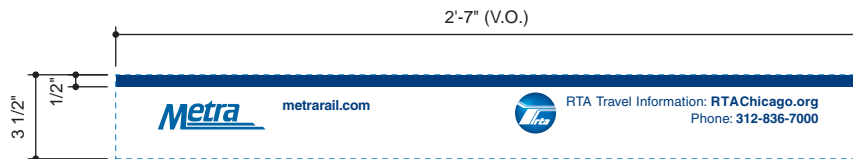
The following pages compile the design intent documentation for discontinued interagency sign types. The discontinued sign types will not be specified for use in future interagency locations.

The compiled documentation has been taken from earlier editions of the Interagency Standards Manual and shows design intent only. Some of the sign types included may have been produced and installed at interagency locations, and may still be in use. The documentation included in this section has been provided for reference only and does not show as-built or current conditions.

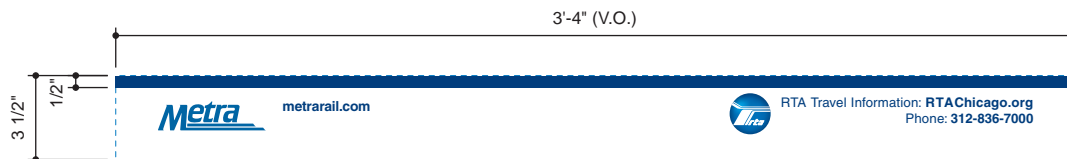


APPENDIX E2 Legacy Sign Types

Footer Layouts



1 Elevation - Typical Footer for Sign Type TR-5
Scale: 1 1/2" = 1'-0"



2 Elevation - Typical Footer for Sign Types TR-6, TT-4
Scale: 1 1/2" = 1'-0"

Description

General

Shown is the typical layout for the footer portion of the following sign types:

TR – Train Route (includes only Sign Types TR-5 and TR-6)

TT – Train Times (includes only Sign Type TT-4)

All footers shall include contact information for RTA Travel Information. The footer for Sign Types TR-5, TR-6, and TT-4 shall include the RTA and Metra logos and the Metra web address. Footers at locations where Metra and South

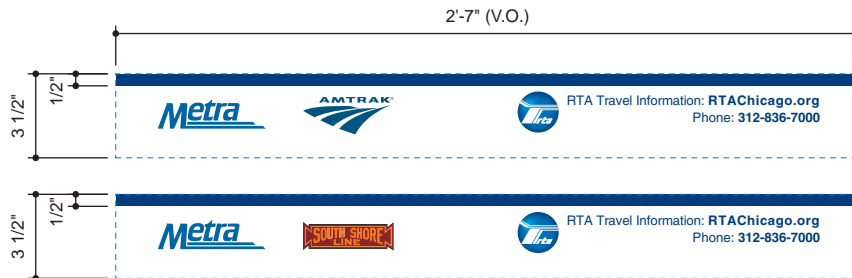
Shore stations are co-located shall also include the South Shore logo (see page E2.3). Footers at locations where Metra and Amtrak stations are co-located shall also include the Amtrak logo (see page E2.3).

A digital base art file, for use when developing final art for footer graphics, shall be provided by the RTA.

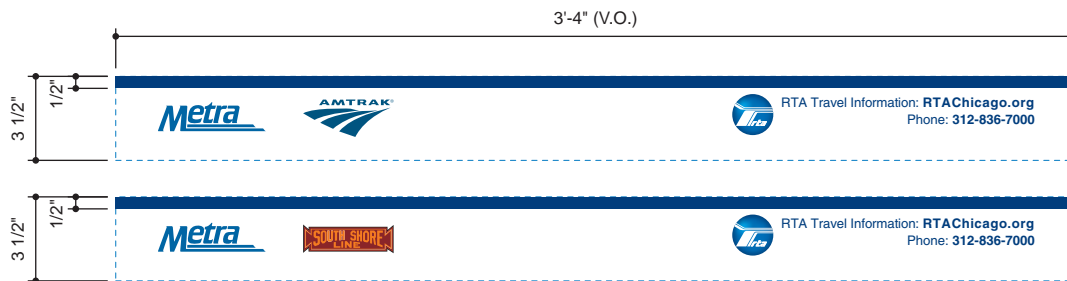


APPENDIX E2 Legacy Sign Types

Footer Layouts



1 Elevation - Typical Footer for Sign Type TR-5 with South Shore or Amtrak Logo
Scale: 1 1/2" = 1'-0"



2 Elevation - Typical Footer for Sign Types TR-6, TT-4 with South Shore or Amtrak Logo
Scale: 1 1/2" = 1'-0"

Description

General

Shown are the special layouts for the footer portion of the following sign types:

TR – Train Route (includes only Sign Types TR-5 and TR-6)

TT – Train Times (includes only Sign Type TT-4)

All footers shall include contact information for RTA Travel Information. The footer for Sign Types TR-5, TR-6, and TT-4 shall include the RTA and Metra logos and the Metra web address. Footers at locations where Metra and South

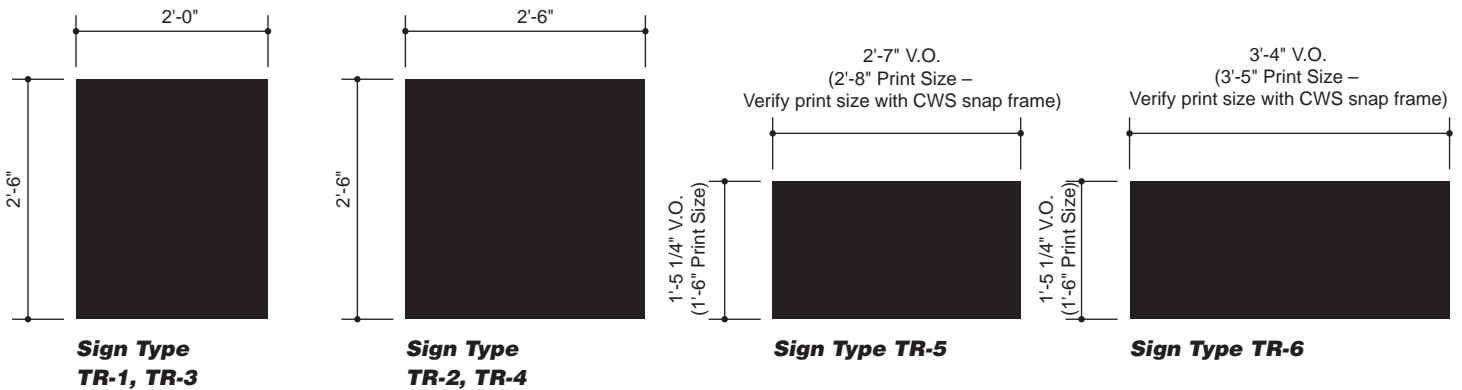
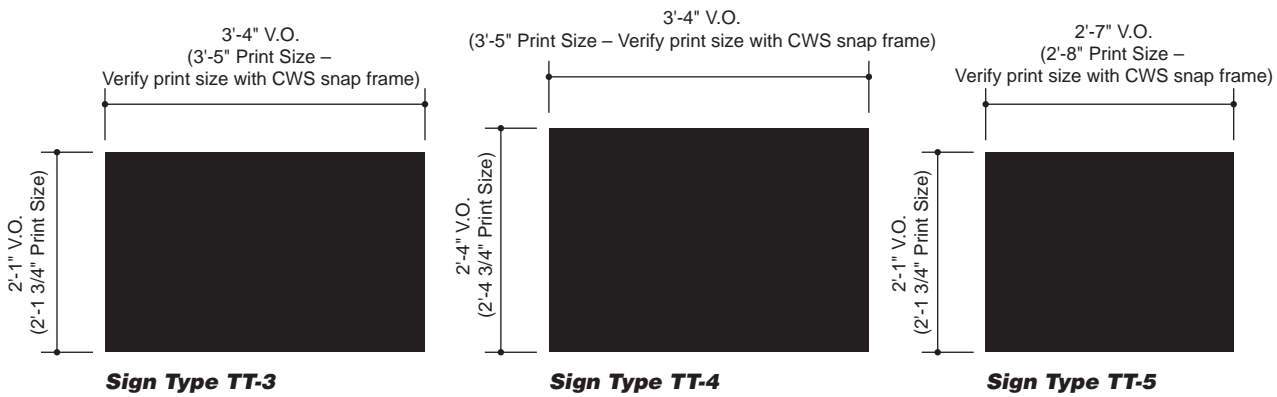
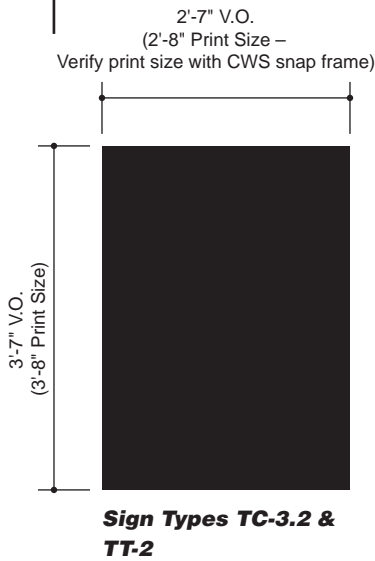
Shore stations are co-located shall also include the South Shore logo. Footers at locations where Metra and Amtrak stations are co-located shall also include the Amtrak logo.

A digital base art file, for use when developing final art for footer graphics, shall be provided by the RTA.



**APPENDIX E2
Legacy Sign Types**

Standard Size Summary



Description

General

Information Graphics Standard Size Summary.

(V.O. = Visual Opening)

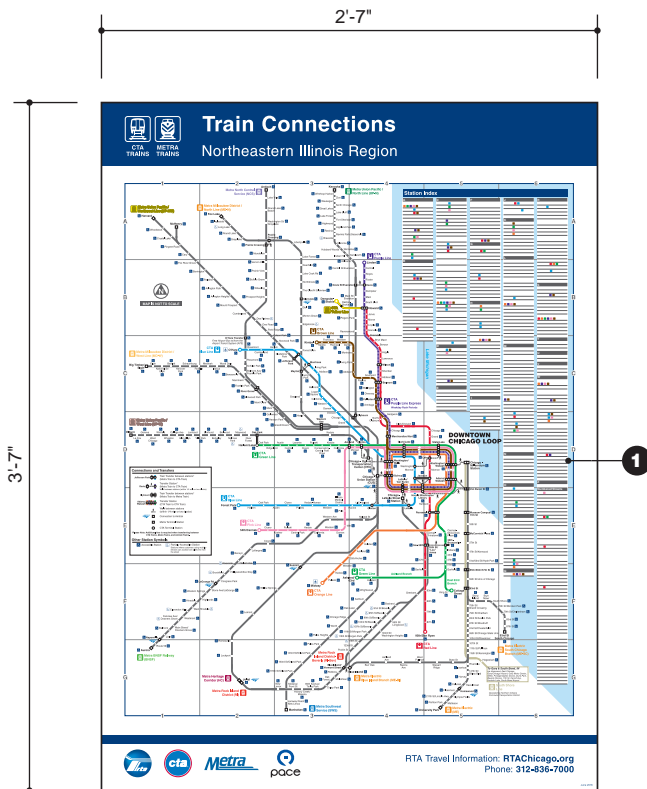
Print size indicated is for artwork used in CWN sign cabinets. Verify the print size required for use in CWS snap frames.

APPENDIX E2

Legacy Sign Types

Train Connections Map Laminated Digital Print Sign Type TC-3.2

General Information



1

Elevation - Sign Type TC-3.2

Scale: 1" = 1'-0"

Sign Mounting Information:

New Location and Installation:

Sign type TC-3.2 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape or other appropriate adhesive and/or double face tape.

Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.

Description

General

Sign type TC-3.2 provides information on regional Metra and CTA train connections and routes. Sign type TC-3.2 content will not vary with location. See page E2.6 for Design and Layout Notes.

1 Train Connections Graphic

The TC-3.2 graphic shall be digitally printed at high resolution onto heavy bright white paper using UV resistant inks. The printed piece shall be laminated on both sides with an encapsulated edge seal.

The graphic shown is for reference only. The content for each sign type TC-3.2 shall not vary with location. Digital art for sign type TC-3.2 shall be provided by the RTA. If directed to do so by the RTA, incorporate content revisions into the existing art. These revisions may include, but shall not be limited to, changes to the Stations Index, revisions to the train route diagrams, or changes to the stations shown in the route diagrams. All new TC-3.2 graphics must be reviewed and accepted by the RTA prior to

production of the final signs.

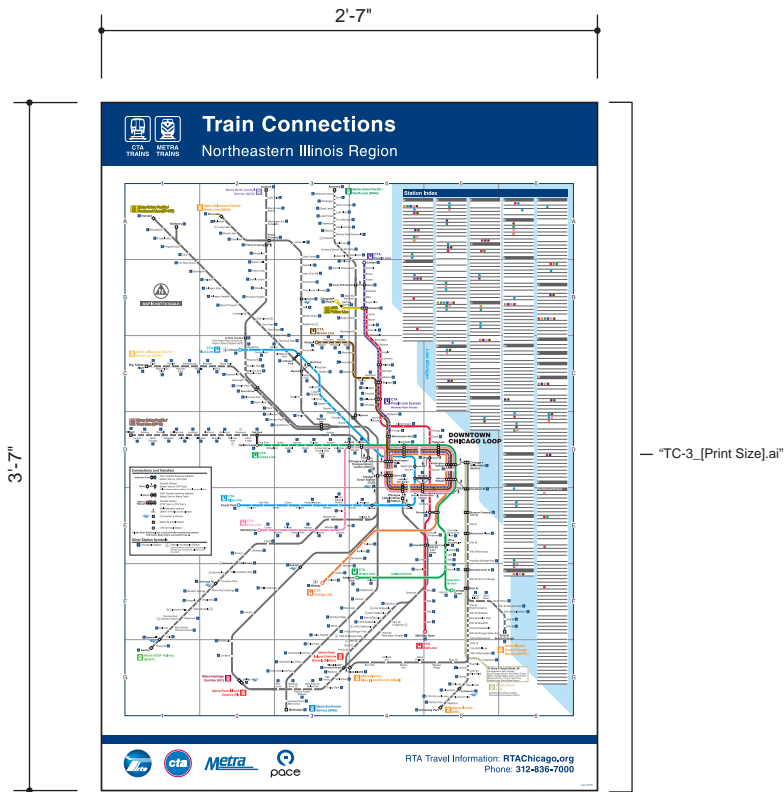
The typical size for sign type TC-3.2 is shown. The size may need to be adjusted to respond to specific conditions at each installation location.

Coordinate the TC-3.2 graphic and the overall panel size with the mounting conditions at each installation location.

APPENDIX E2 Legacy Sign Types

Train Connections Map Laminated Digital Print Sign Type TC-3.2

Design and Layout Notes



1 Elevation - Sign Type TC-3.2 Scale: 1" = 1'-0"

Description

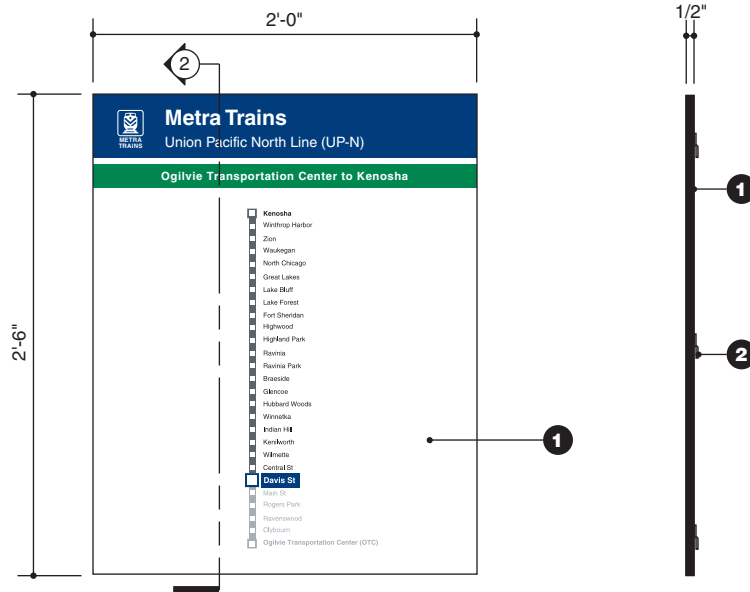
General Design and Layout Information - TC Signs

- Sign type TC is typically a single Adobe Illustrator file.
- TC signs have a standard layout and generally do not change with location.
- TC signs may require minor corrections or adjustment to reflect facility changes, or other rail service changes.

APPENDIX E2

Legacy Sign Types

Train Route Diagram - 24" Used with Sign Frame Sign Type TR-1



1 Elevation - Sign Type TR-1
Scale: 1" = 1'-0"

2 Section - Sign Type TR-1
Scale: 1" = 1'-0"

Associated Sign Structure Information:

New Location and Installation:

Sign type TR-1 is typically mounted using a SWD sign structure.

For information on SWD, See Section D1.

Description

General

Sign type TR-1 provides Metra train route information. Sign type TR-1 contents will vary with location.

Sign type TR-1 panels are used only at locations where walls can be drilled and the panel and sign frame can be mounted using appropriate mechanical anchors and fasteners.

Sign type TR-1 panels are 1/2" thick and are mounted to fabricated sign frames using appropriate hardware.

1 Sign Face Panel

Sign type TR-1 panels shall be 1/2" thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-1 is a Metra route schematic. Sign type TR-1 is the typical sign type for the display of Metra route

diagrams. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-1 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-1 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and

location-specific graphics using existing TR-1 signs as precedents for layout. Basic route information, digital template files for the TR-1 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-1 signs shall be prepared using Adobe Illustrator. All new TR-1 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

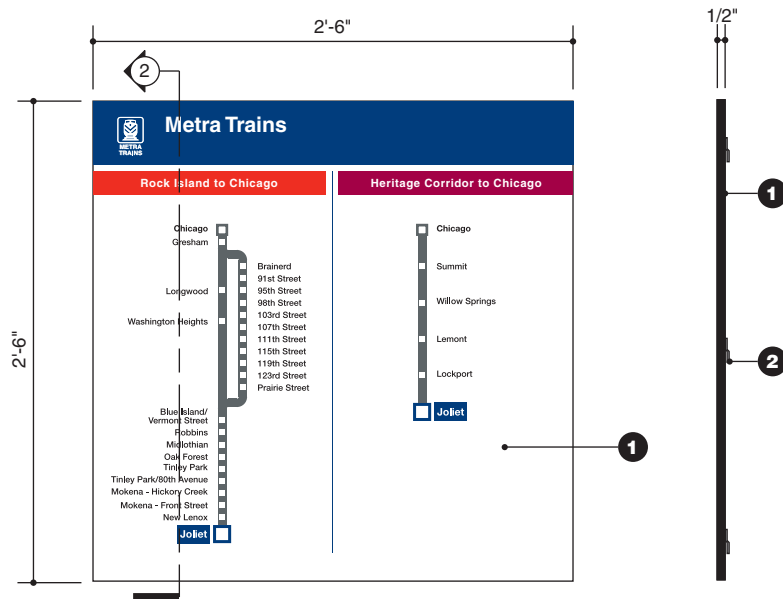
2 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWD sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant, corrosion-resistant, and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.

APPENDIX E2

Legacy Sign Types

Train Route Diagram - 30" Used with Sign Frame Sign Type TR-2



1 Elevation - Sign Type TR-2
Scale: 1" = 1'-0"

2 Section - Sign Type TR-2
Scale: 1" = 1'-0"

Associated Sign Structure Information:

New Location and Installation:

Sign type TR-2 is typically mounted using a SWD sign structure.

For information on SWD, See Section D1.

Description

General

Sign type TR-2 provides Metra train route information. Sign type TR-2 contents will vary with location.

Sign type TR-2 panels are used only at locations where walls can be drilled and the panel and sign frame can be mounted using appropriate mechanical anchors and fasteners.

Sign type TR-2 panels are 1/2" thick and are mounted to fabricated sign frames using appropriate hardware.

1 Sign Face Panel

Sign type TR-2 panels shall be 1/2" thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-2 is a Metra route schematic. Sign type TR-2 is used when the rail route information cannot be properly

displayed on sign type TR-1. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-2 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-2 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and

location-specific graphics using existing TR-2 signs as precedents for layout. Basic route information, digital template files for the TR-2 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-2 signs shall be prepared using Adobe Illustrator. All new TR-2 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

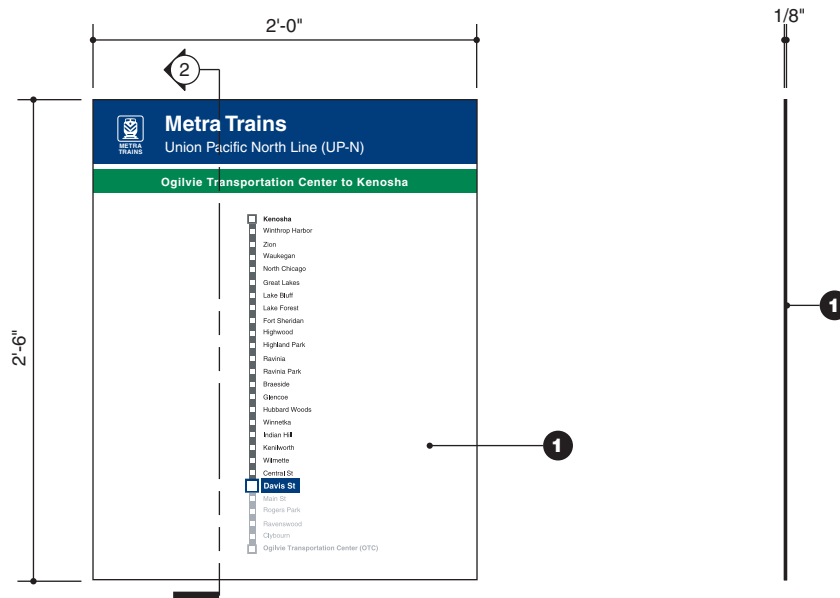
2 Concealed Mounting Hardware

Provide concealed mounting hardware as required to properly, safely, and securely mount the sign panel to the SWD sign structure. The mounting hardware shall not be visible after the sign face has been installed. All mounting hardware shall be vandal-resistant, corrosion-resistant, and suitable for use in exterior applications. Coordinate the mounting hardware with the sign frame as required.

APPENDIX E2

Legacy Sign Types

Train Route Diagram - 24" Used with Wall Mounted Back Panel Sign Type TR-3



1 Elevation - Sign Type TR-3
Scale: 1" = 1'-0"

2 Section - Sign Type TR-3
Scale: 1" = 1'-0"

Associated Sign Structure Information:

Sign type TR-3 is mounted using an SWA or SWG sign structure. See Section D1 for additional information.

Description

General

Sign type TR-3 provides Metra train route information. Sign type TR-3 contents will vary with location.

Sign type TR-3 panels are 1/8" thick and are to be used only at locations where walls cannot be drilled and the panel and sign structure must be mounted using appropriate adhesive and/or double face tape.

1 Sign Face Panel

Sign type TR-3 panels shall be 1/8" thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-3 is a Metra route schematic. Sign type TR-3 is used to display Metra route diagrams when it is inappropriate or otherwise unacceptable to use

sign type TR-1. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-3 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-3 may be provided by the RTA. When directed to do so by the RTA,

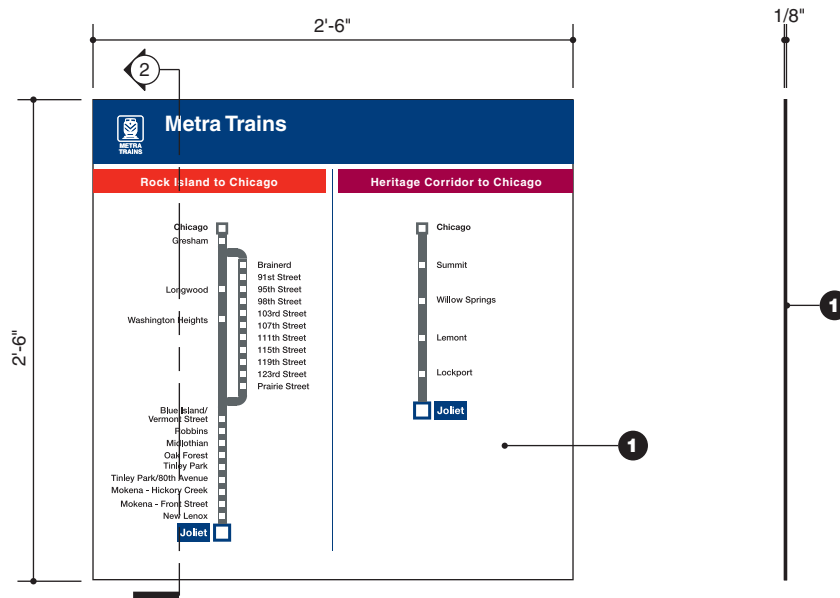
determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-3 signs as precedents for layout. Basic route information, digital template files for the TR-3 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-3 signs shall be prepared using Adobe Illustrator. All new TR-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

Sign type TR-3 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape, double-face tape, or other appropriate adhesive. Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.

APPENDIX E2

Legacy Sign Types

Train Route Diagram - 30" Used with Wall Mounted Back Panel Sign Type TR-4



1 Elevation - Sign Type TR-4
Scale: 1" = 1'-0"

2 Section - Sign Type TR-4
Scale: 1" = 1'-0"

Associated Sign Structure Information:

Sign type TR-4 is mounted using an SWA or SWG sign structure. See Section D1 for additional information.

Description

General

Sign type TR-4 provides Metra train route information. Sign type TR-4 contents will vary with location.

Sign type TR-4 panels are 1/8" thick and are to be used only at locations where walls cannot be drilled and the panel and sign structure must be mounted using appropriate adhesive and/or double face tape.

1 Sign Face Panel

Sign type TR-4 panels shall be 1/8" thick exterior grade Rhino panel, or an equivalent panel with embedded UV resistant graphics accepted by the RTA. Sign type TR-4 is a Metra route schematic. Sign type TR-4 is used to display Metra route diagrams when it is inappropriate or otherwise unacceptable to use

sign type TR-2. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-4 sign along a particular line shall show the entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order, starting with the northernmost or easternmost station. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

Digital art for sign type TR-4 may be provided

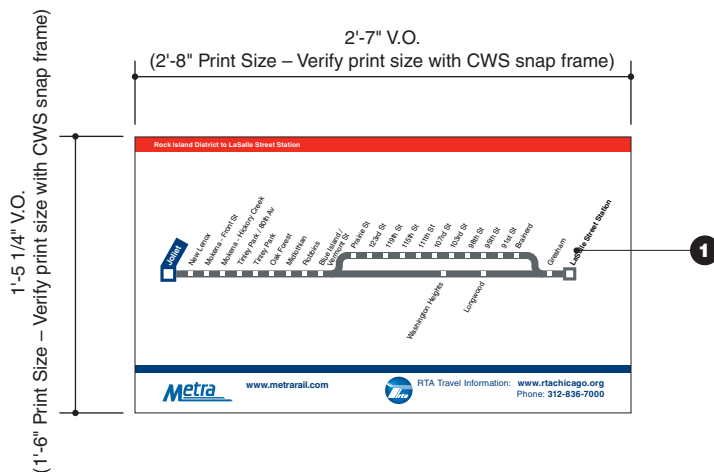
by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required route schematic and location-specific graphics using existing TR-4 signs as precedents for layout. Basic route information, digital template files for the TR-4 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-4 signs shall be prepared using Adobe Illustrator. All new TR-4 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

Sign type TR-4 is mounted directly to walls or other surfaces using high strength hook and loop fastener tape, double-face tape, or other appropriate adhesive. Verify the conditions at each installation location and determine the appropriate adhesive and/or tape.

APPENDIX E2

Legacy Sign Types

Train Route Diagram - 31" Used with Sign Cabinet Sign Type TR-5



1

Elevation - Sign Type TR-5

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:

Sign type TR-5 is typically mounted using a CWN-3.2 sign cabinet with sign type TT-5.

Sign type TR-5 can also be mounted using a CWS-1 snap frame when printed with sign type TT-5.

For information on CWS-1, see Section B2. For information on CWN-3.2, see Section E2.

Description

General

Sign type TR-5 provides Metra train route information. Sign type TR-5 contents will vary with location. Sign type TR-5 typically appears in conjunction with sign type TT-5.

1 Train Route Graphic

Sign type TR-5 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TR-5 is a Metra route schematic. Sign type TR-5 is the typical sign type for the display of Metra route diagrams in CWN-3.2 sign cabinets and CWS-1 snap frames when a Train Times product is also specified. The route information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each TR-5 sign along a particular line shall show the

entire line, but the graphics will vary depending on where the sign is located.

The route schematic will list all the stations along the line, in order. When TR-5 is used on a platform, the stations shall be listed to reflect the typical direction of travel for trains boarded from the platform. When not used on a platform, the diagram shall start with the line's northernmost and westernmost stations on the left. The graphics will highlight the station in which the sign is located, and, depending on where the sign is located, indicate a typical direction of travel by highlighting the stations down the line in the direction of travel. Stations that offer transfers to other rail service will be indicated with the additional rail service available.

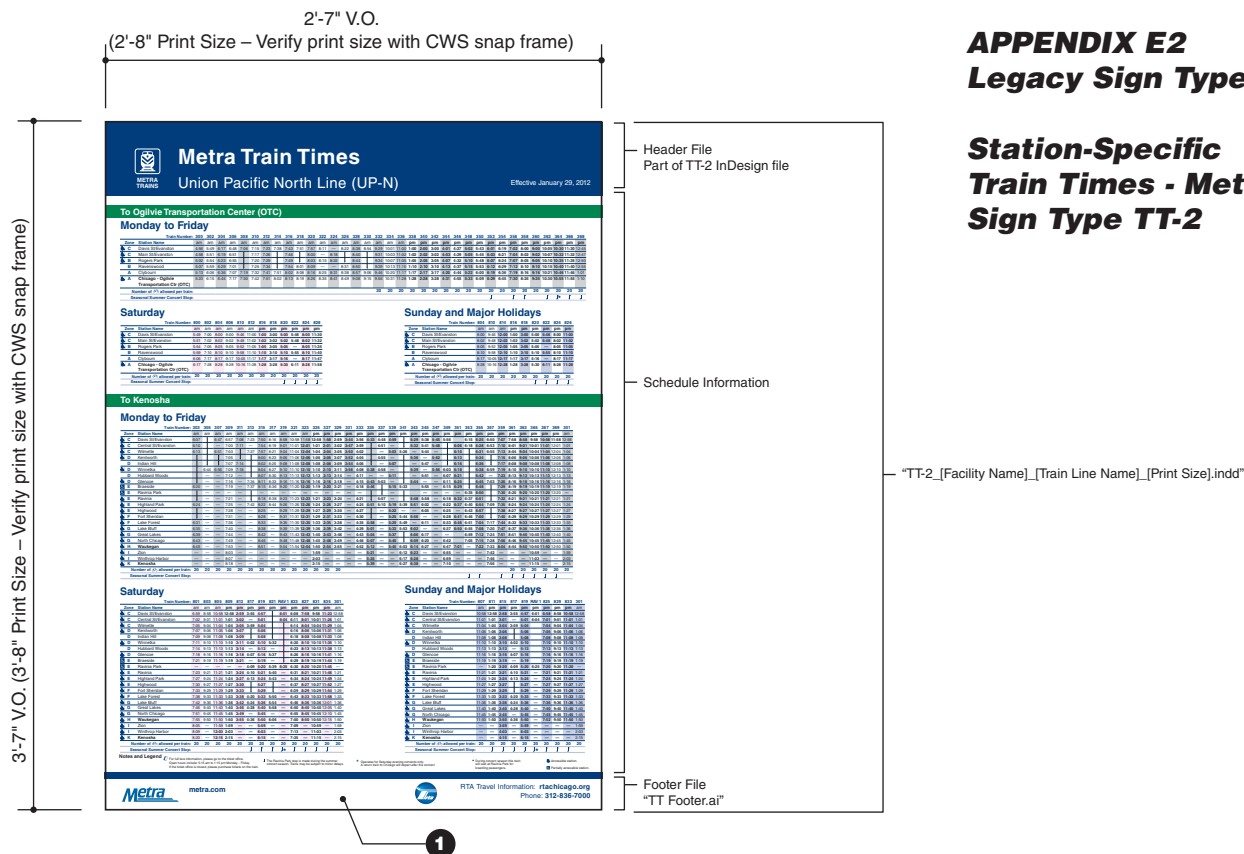
Digital art for sign type TR-5 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the

final art for the required route schematic and location-specific graphics using existing TR-5 signs as precedents for layout. Basic route information, digital template files for the TR-5 graphics, and base art files for the header graphics shall be provided by the RTA. Digital art for new TR-5 signs shall be prepared using Adobe Illustrator. All new TR-5 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TR-5 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TR-5 graphic and the overall panel size with the mounting conditions and hardware at each installation location.





APPENDIX E2 Legacy Sign Types

Station-Specific Train Times - Metra Sign Type TT-2

1

Elevation - Sign Type TT-2

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:

Sign type TT-2 is typically mounted using a CWN-3.1 sign cabinet or CWS-1 snap frame.

For information on CWS-1, see Section B2. For information on CWN-3.1, see Section E2.

Description

General

Sign type TT-2 provides Metra schedule information. Sign type TT-2 content will vary with location. Sign type TT-2 shall be used at locations where Station-Specific Timetables are allowed.

Each sign type TT-2 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

1 Station-Specific Train Times Graphic

Sign type TT-2 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-2 is a Metra train schedule. The schedule information for each of the Metra Rail Lines is different and each line is identified by a unique color. Each sign type TT-2 shall provide schedule information based on the station in which the sign is located. For each station, train times to the appropriate terminal stations will be listed separately and the times will start at the station in which the TT-2 is located. Digital art for sign type TT-2 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the

required line-specific graphics using existing TT-2 signs as precedents for layout. The schedule information to be presented, digital template files for the TT-2 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-2 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

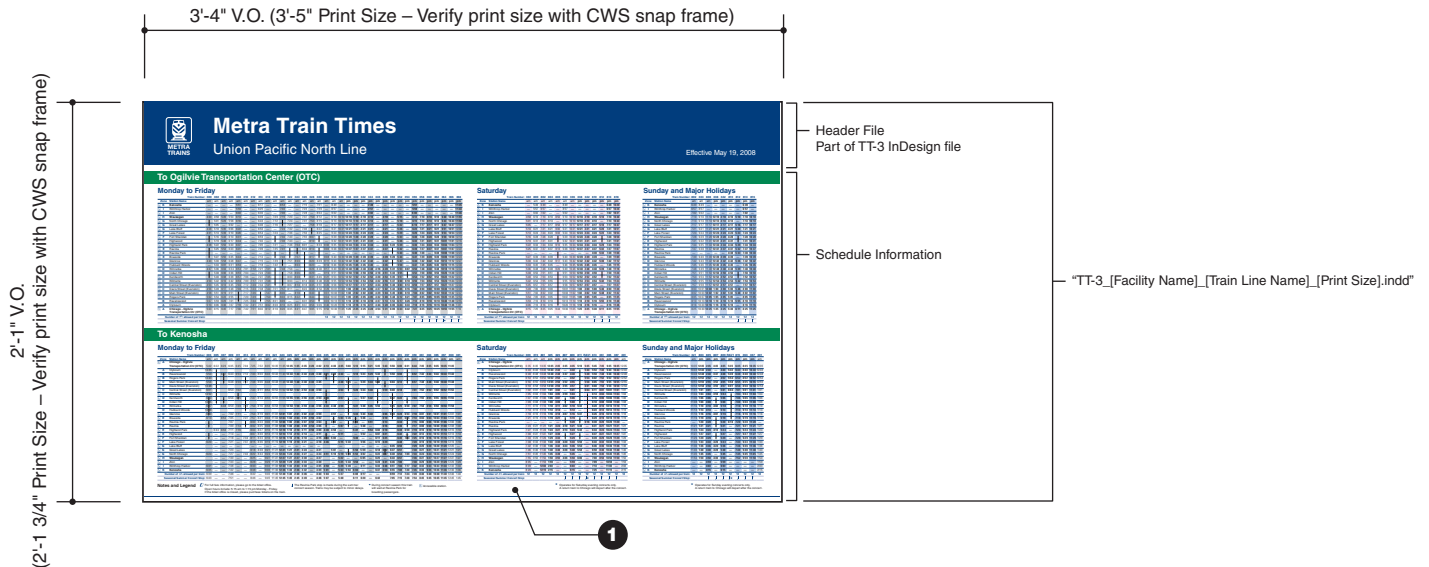
The typical visual opening (V.O.) size shown applies when sign type TT-2 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-2 graphic and the overall panel size with the mounting conditions and hardware at each installation location.



APPENDIX E2 Legacy Sign Types

Train Times - Metra Sign Type TT-3



1

Elevation - Sign Type TT-3

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:

Sign type TT-3 is typically mounted using a CWN-7 sign cabinet or a CWS-7 snap frame with sign type TR-6. For information on CWN-7 and CWS-7, See Section E2.

Existing Cabinet Installation:

When installed within an existing Metra schedule cabinet, sign type TT-3 is mounted using the existing Metra cabinet hardware. Coordinate print size with existing cabinet.

Description

General

Sign type TT-3 provides Metra schedule information. Sign type TT-3 content will vary with location. Sign type TT-3 typically appears in conjunction with sign type TR-6.

Each sign type TT-3 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

1 Train Times Graphic

Sign type TT-3 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-3 is a Metra train schedule. Sign type TT-3 is used for Metra Rail Lines with full schedules that have a large number of trains and stops. The schedule information for each of the Metra Rail Lines is different, but all of the TT-3 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-3 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing

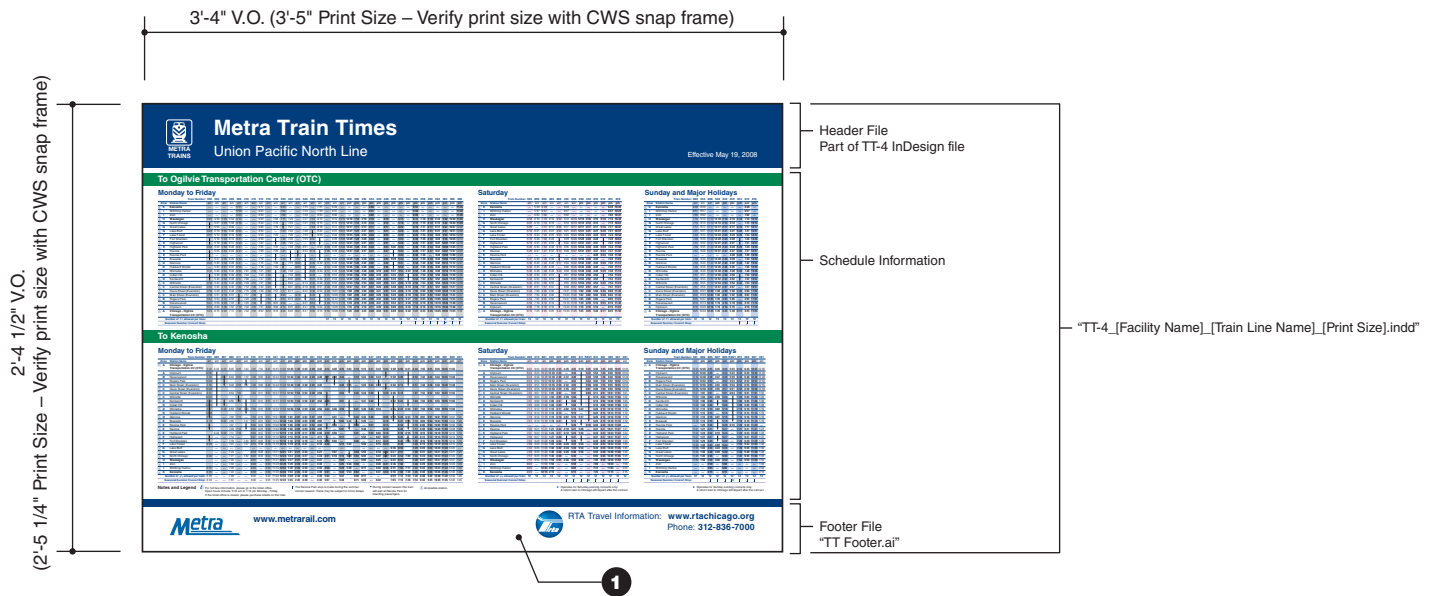
TT-3 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-3 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-3 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-3 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-3 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

APPENDIX E2 Legacy Sign Types

Train Times - Metra Sign Type TT-4



1

Elevation - Sign Type TT-4

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:

Sign type TT-4 is typically mounted using a CWN-6 sign cabinet or a CWS-6 snap frame.
For information on CWN-6 and CWS-6, See Section E2.

Existing Cabinet Installation:

When installed within an existing Metra schedule cabinet, sign type TT-4 is mounted using the existing Metra cabinet hardware.
Coordinate print size with existing cabinet.

Description

General

Sign type TT-4 provides Metra schedule information. Sign type TT-4 content will vary with location.

Each sign type TT-4 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

1 Train Times Graphic

Sign type TT-4 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-4 is a Metra train schedule. Sign type TT-4 is used for Metra Rail Lines with full schedules that have a large number of trains and stops. Sign type TT-4 is typically used independent of other ITPID graphics. The schedule information for each of the Metra Rail Lines is different, but all of the TT-4 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-4 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing TT-4 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-4 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All

new TT-4 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

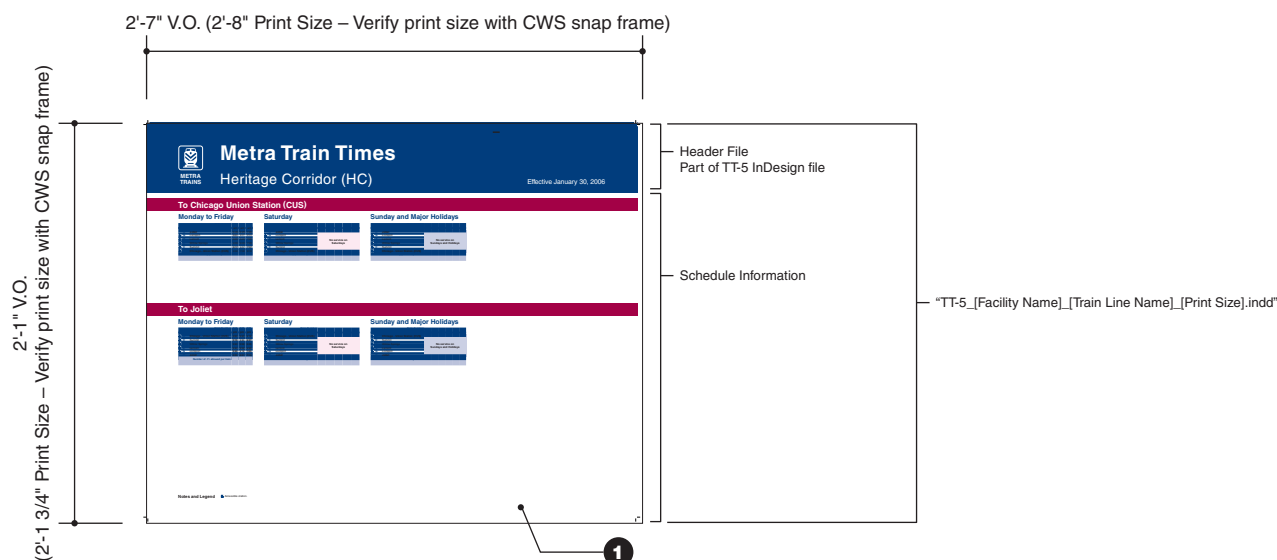
The typical visual opening (V.O.) size shown applies when sign type TT-4 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-4 graphic and the overall panel size with the mounting conditions and hardware at each installation location.



APPENDIX E2 Legacy Sign Types

Train Times - Metra Sign Type TT-5



1

Elevation - Sign Type TT-5

Scale: 1" = 1'-0"

Associated Sign Cabinet / Frame Information:

New Location and Installation:

Sign type TT-5 is typically mounted using a CWN-3.2 sign cabinet with sign type TR-5.

Sign type TT-5 can also be mounted using a CWS-1 snap frame when printed with sign type TR-5.

For information on CWS-1, see Section B2. For information on CWN-3.2, see Section E2.

Existing Cabinet Installation:

When installed within an existing Metra schedule cabinet, sign type TT-5 is mounted using the existing Metra cabinet hardware.

Coordinate print size with existing cabinet.

Description

General

Sign type TT-5 provides Metra schedule information. Sign type TT-5 content will vary with location. Sign type TT-5 typically appears in conjunction with sign type TR-5.

Each sign type TT-5 may include separate file components that are linked into a single, master product file using Adobe InDesign software.

When developing art for TT signs, schedule information shall be provided by the RTA. Import the schedule information into formatted InDesign template files provided by the RTA.

1 Train Times Graphic

Sign type TT-5 shall be digitally printed at high resolution using UV resistant inks directly onto a substrate specified by the RTA.

The graphic shown is for reference only. Sign type TT-5 is a Metra train schedule. Sign type TT-5 is used for Metra Rail Lines with limited schedules that do not have a large number of trains and stops. The schedule information for each of the Metra Rail Lines is different, but all of the TT-5 locations along a particular line shall have the same schedule information. Each line is identified by a unique color. Digital art for sign type TT-5 may be provided by the RTA. When directed to do so by the RTA, determine the final content and develop the final art for the required line-specific graphics using existing

TT-5 signs as precedents for layout. Schedule information to be presented, digital template files for the TT-5 graphics, and base art files for the header and footer graphics shall be provided by the RTA. All new TT-5 graphics must be reviewed and accepted by the RTA prior to production of the final signs.

The typical visual opening (V.O.) size shown applies when sign type TT-5 appears in a CWN sign cabinet or CWS snap frame. The print size may need to be adjusted to coordinate with CWS snap frames or to respond to specific conditions at each installation location.

Coordinate the TT-5 graphic and the overall panel size with the mounting conditions and hardware at each installation location.

APPENDIX E2 Legacy Sign Types

Sign Cabinet Introduction



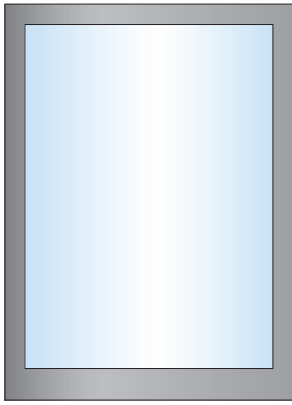
Description

General

Section B2 general reference.

**APPENDIX E2
Legacy Sign Types**

Sign Cabinet Overview

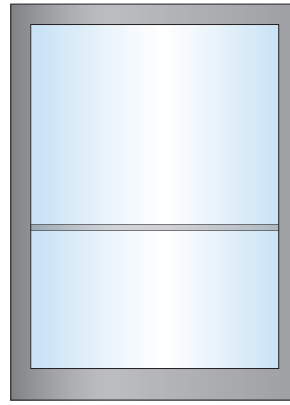


**CWN Series Sign Cabinet
Single Graphic Display**

The cabinet will hold non-illuminated Information Graphics.

The graphics are described in Sections B1 and E2.

The cabinet can be mounted onto a freestanding structure or a wall structure.

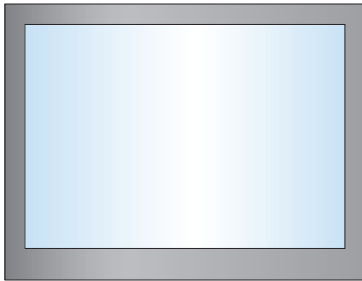


**CWN Series Sign Cabinet
Double Graphic Display**

The cabinet will hold non-illuminated TT-5 Train Times / Metra Schedule and non-illuminated TR-5 Train Route Diagram.

The graphics are described in Section E2.

The cabinet can be mounted onto a freestanding structure or a wall structure.

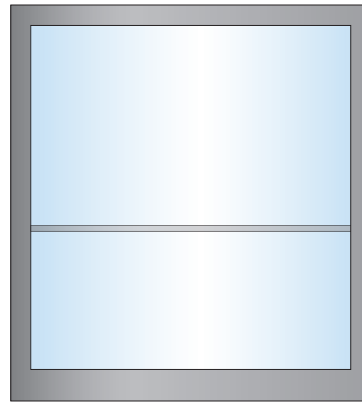


**CWN Series Sign Cabinet
Single Graphic Display -
Metra Schedule**

The cabinet will hold non-illuminated TT-4 Train Times / Metra Schedule.

The graphics are described in Section E2.

The cabinet can be mounted onto a freestanding structure or a wall structure.



**CWN Series Sign Cabinet
Double Graphic Display -
Metra Schedule**

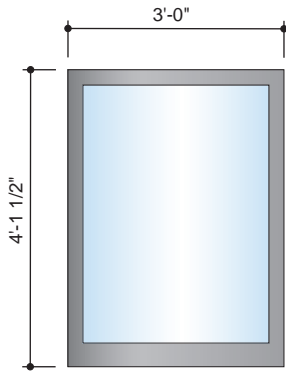
The cabinet will hold non-illuminated TT-3 Train Times / Metra Schedule and non-illuminated TR-6 Train Route Diagram.

The graphics are described in Section E2.

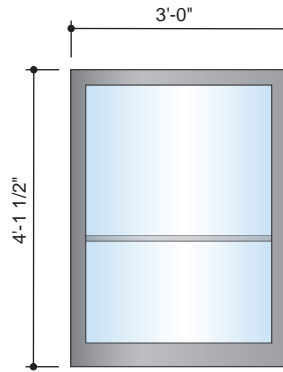
The cabinet can be mounted onto a freestanding structure or a wall structure.

APPENDIX E2
Legacy Sign Types

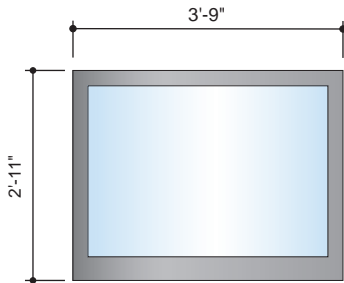
Sign Cabinet
Size Summary



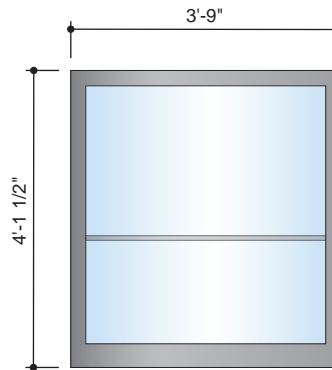
CWN-3.1
Sign Cabinet for
Single Graphic Display



CWN-3.2
Sign Cabinet for
Double Graphic Display -
TT-5 Train Times / Metra Schedule
and TR-5 Train Route Diagram



CWN-6
Sign Cabinet for
Single Graphic Display -
TT-4 Train Times / Metra Schedule



CWN-7
Sign Cabinet for
Double Graphic Display -
TT-3 Train Times / Metra Schedule
and TR-6 Train Route Diagram

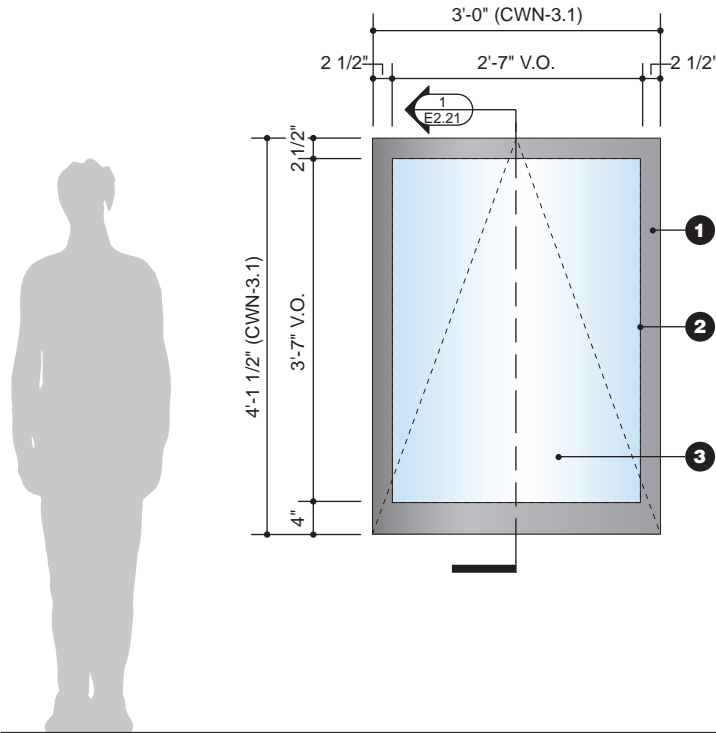
In sign cabinets where two information products are displayed, each product is printed on a separate substrate.

Sign cabinet and frame fabrication and mounting as outlined in this Manual may need to be revised in order to coordinate with site conditions and maintain design intent.

See the Technical Specifications for additional information and requirements.

APPENDIX E2 Legacy Sign Types

CWN-3.1 Cabinet Front Elevation



1

Front Elevation - CWN-3.1 Cabinet

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWN-3.1 sign cabinet:

- Sign Type BC-6 - See Section B1
- Sign Type ID-6 - See Section B1
- Sign Type MD-6 - See Section B1
- Sign Type MN-6 - See Section B1
- Sign Type TC-6 - See Section B1
- Sign Type TR-6 - See Section B1

Associated Sign Structures:

The CWN-3.1 sign cabinet can be mounted to the following sign structures:

- Sign Type SFM - See Section B3
- Sign Type SPY- See Section B3
- Sign Type SWM - See Section B4

Description

General

The CWN-3.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-3.1 cabinet is used to display sign type BC-6, ID-6, MD-6, MN-6, TC-6, and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Stainless Steel Sign Cabinet

The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2 Opening in the CWN Face

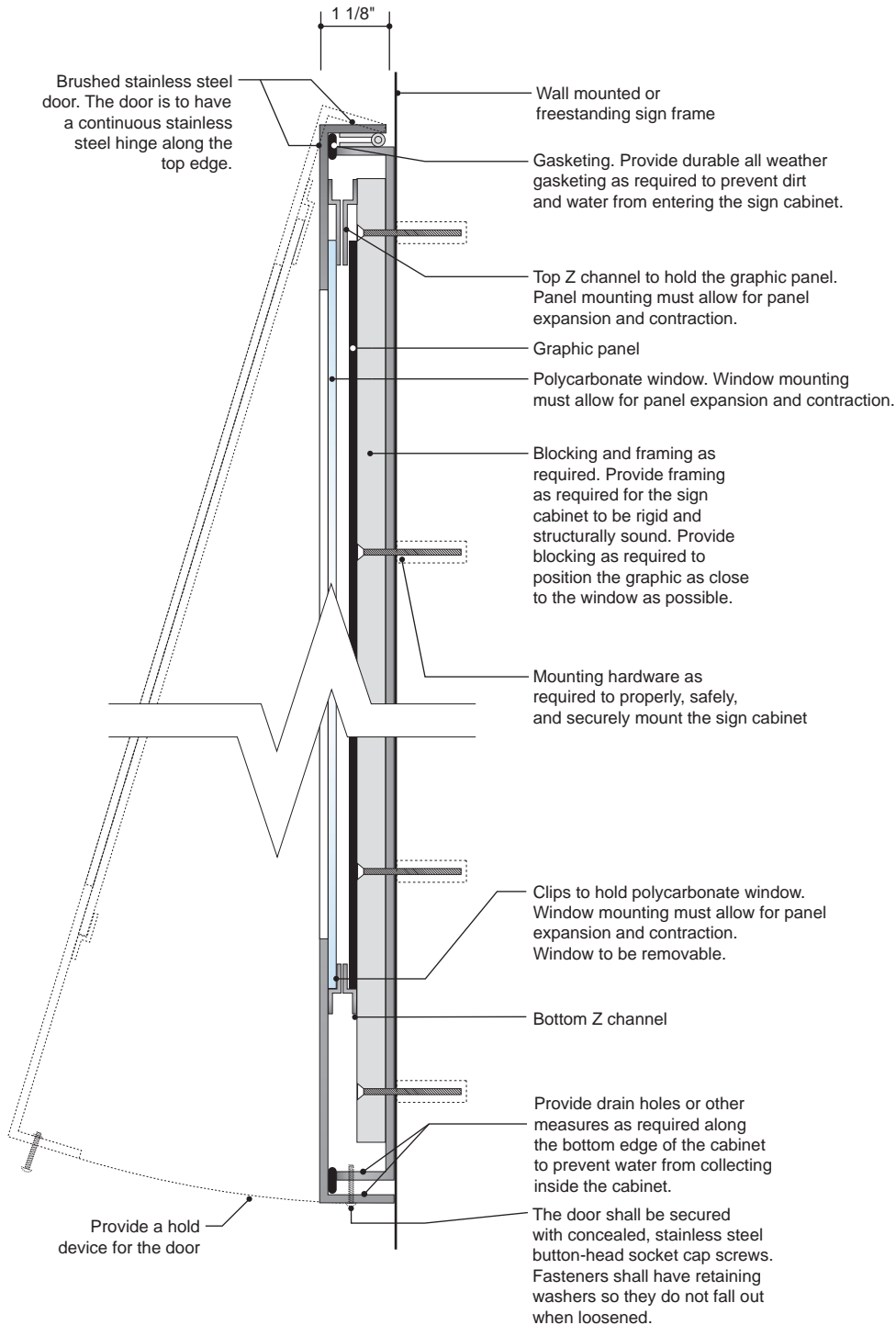
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3 Polycarbonate Window

Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.

**APPENDIX E2
Legacy Sign Types**

**CWN-3.1 Cabinet
Section**



1 Section View: CWN-3.1 Cabinet
Scale: N.T.S.

Description

General

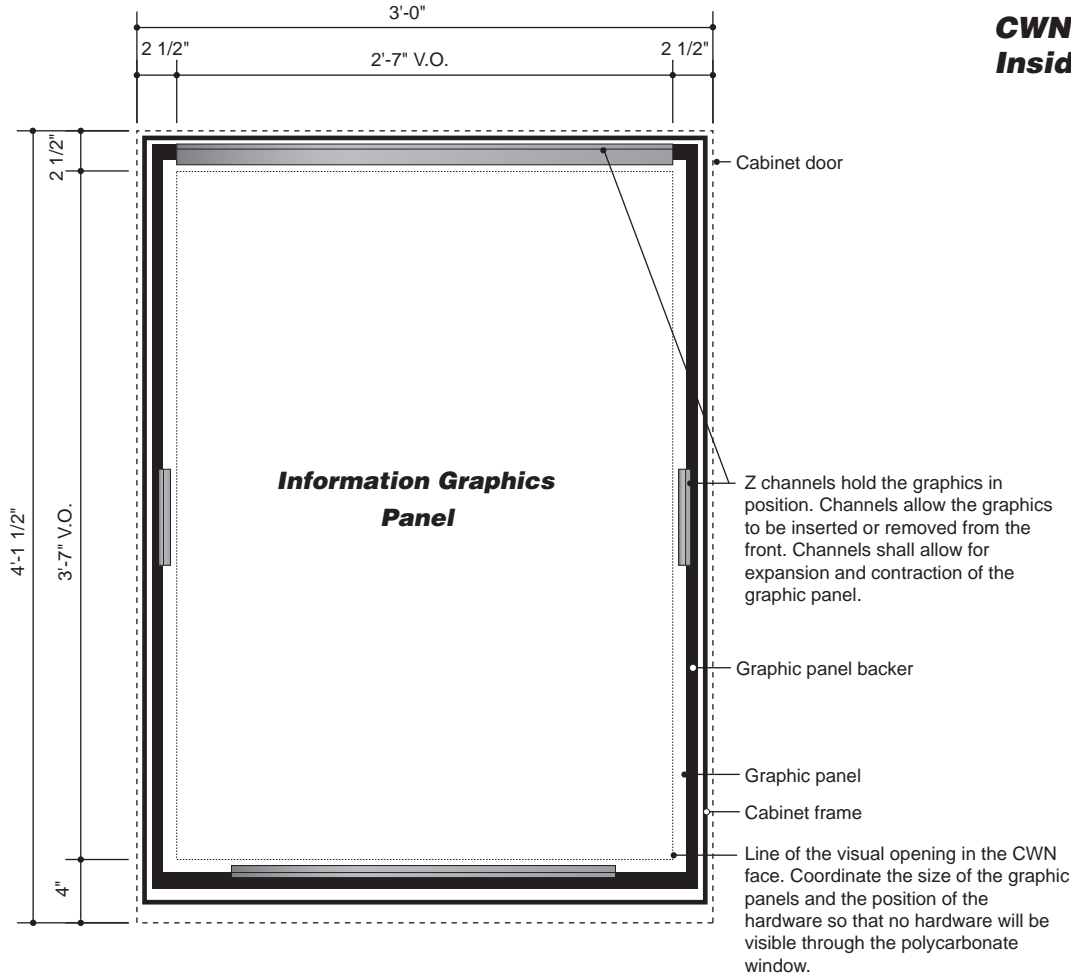
The CWN-3.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-3.1 cabinet is used to display sign type BC-6, ID-6, MD-6, MN-6, TC-6, and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

APPENDIX E2
Legacy Sign Types

CWN-3.1 Cabinet
Inside Elevation



1

Inside Elevation: CWN-3.1 Cabinet (Cabinet shown with door removed)

Scale: 1" = 1'-0"

Description

General

The CWN-3.1 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-3.1 cabinet is used to display sign type BC-6, ID-6, MD-6, MN-6, TC-6, and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.



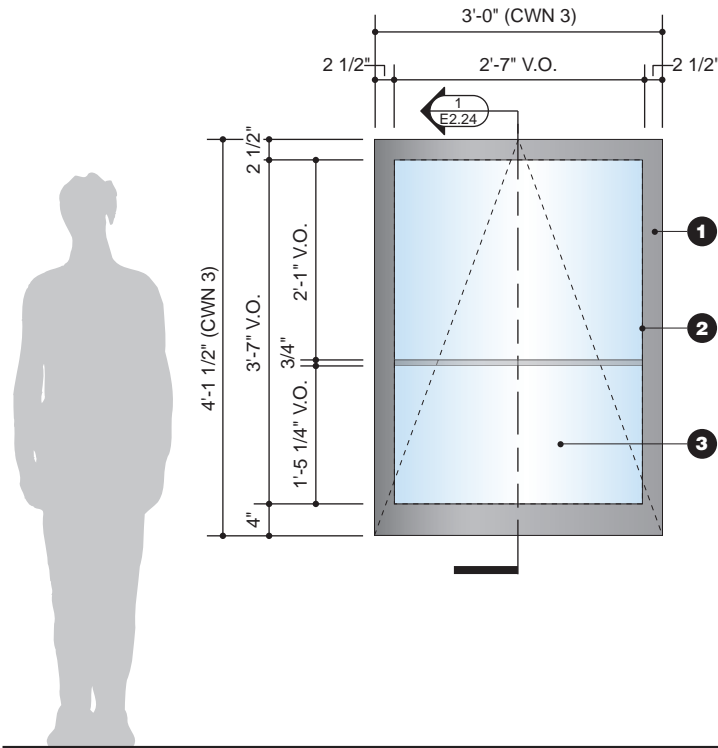
RTA Interagency Signage
Standards Manual

Date: 08.29.14
Revised: 07.22.16,
04.17.19

Appendix E2
E2.22

APPENDIX E2 Legacy Sign Types

CWN-3.2 Cabinet Front Elevation



1

Front Elevation: CWN-3.2 Cabinet

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWN-3.2 sign cabinet:

Sign Type TT-5 - See Section E2
Sign Type TR-5 - See Section E2

Associated Sign Structures:

The CWN-3.2 sign cabinet can be mounted to the following sign structures:

Sign Type SFM - See Section B3
Sign Type SPY- See Section B3
Sign Type SWM - See Section B4

Description

General

The CWN-3.2 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-3.2 cabinet is used to display sign type TT-5 and TR-5 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Stainless Steel Sign Cabinet

The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2 Opening in the CWN Face

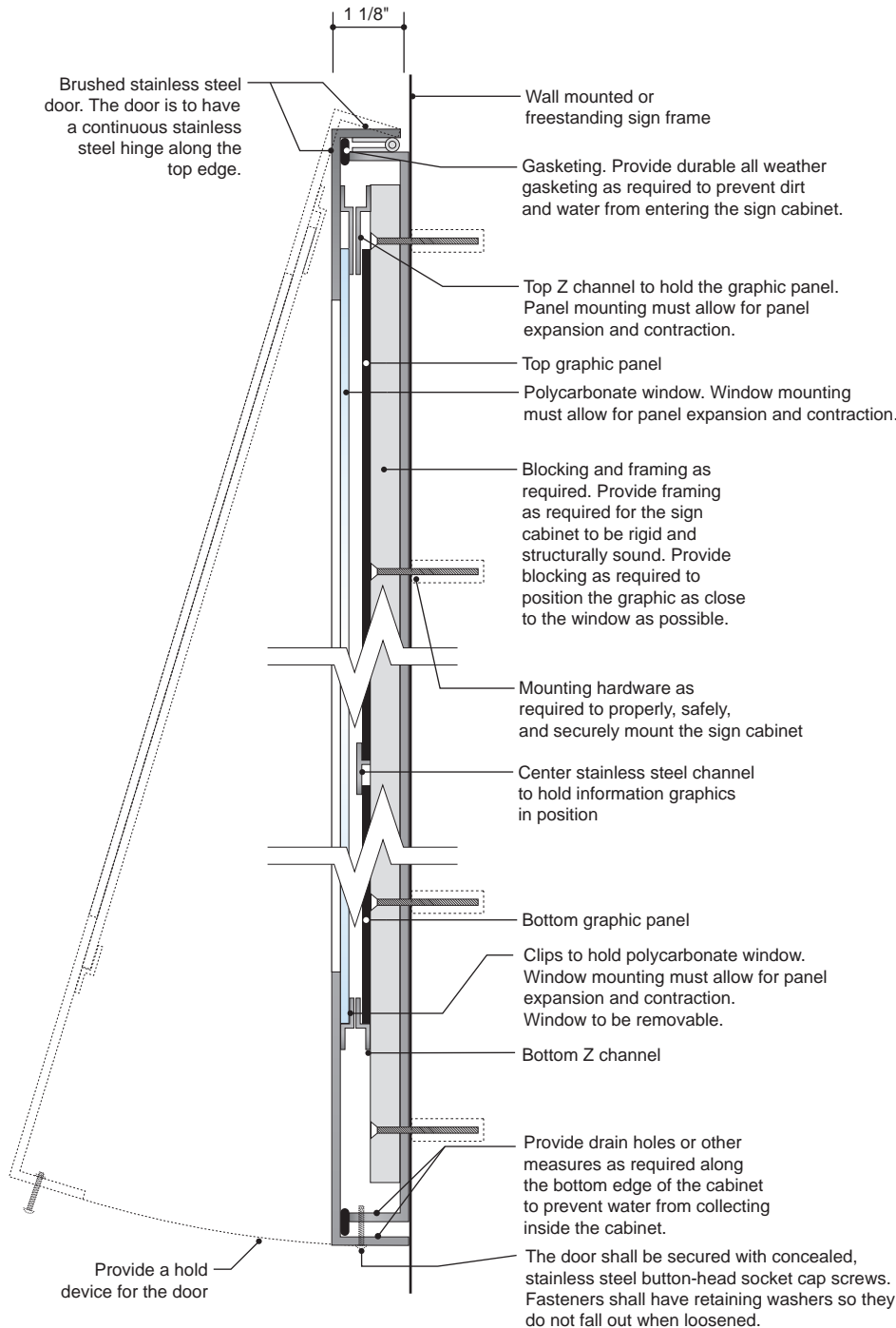
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3 Polycarbonate Window

Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.

**APPENDIX E2
Legacy Sign Types**

**CWN-3.2 & CWN-7 Cabinet
Section**



1

Section View: CWN-3.2, CWN-7 Cabinets

Scale: N.T.S.

Description

General

The CWN-3.2 & CWN-7 sign cabinets are custom fabricated from stainless steel and display two graphic panels.

The CWN-3.2 cabinet is used to display sign type TT-5 and TR-5 panels.

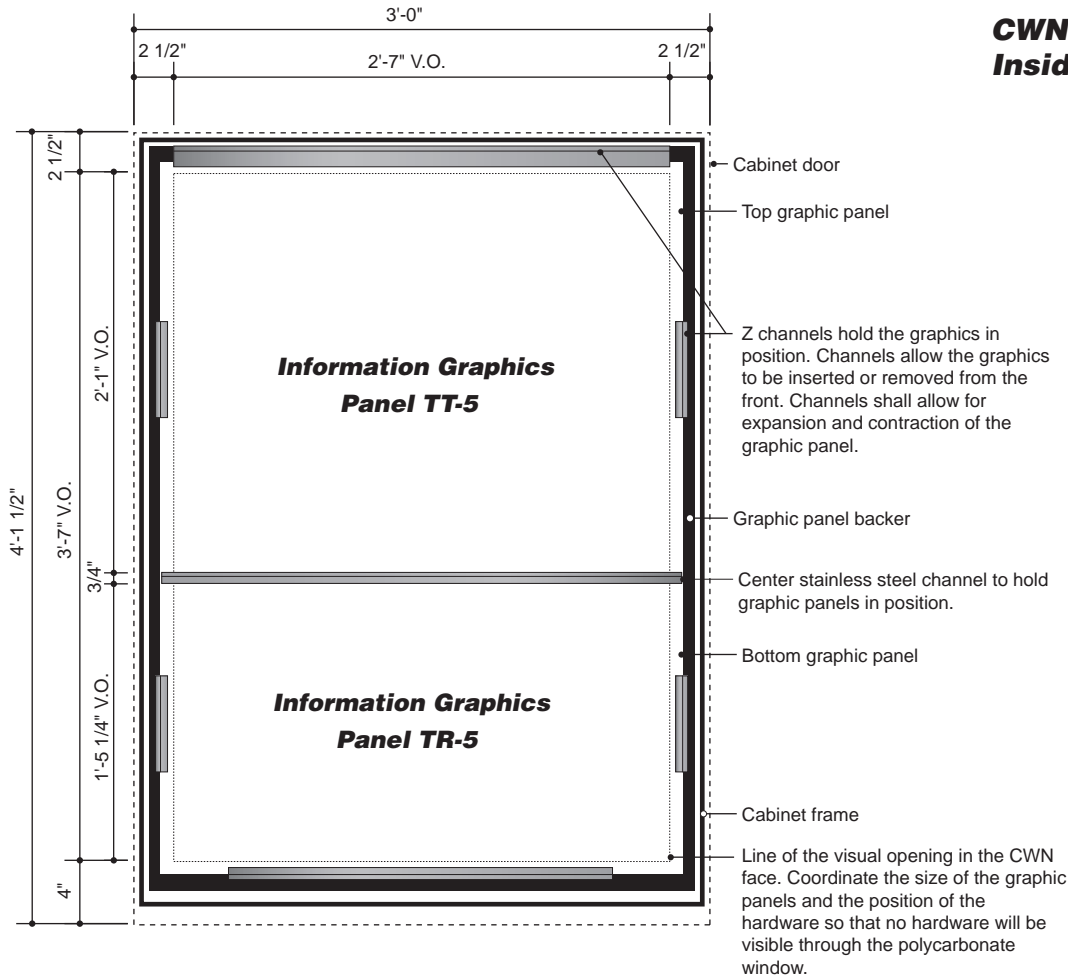
The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.



APPENDIX E2 Legacy Sign Types

CWN-3.2 Cabinet Inside Elevation



1

Inside Elevation: CWN-3.2 Cabinet (Cabinet shown with door removed)

Scale: 1" = 1'-0"

Description

General

The CWN-3.2 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

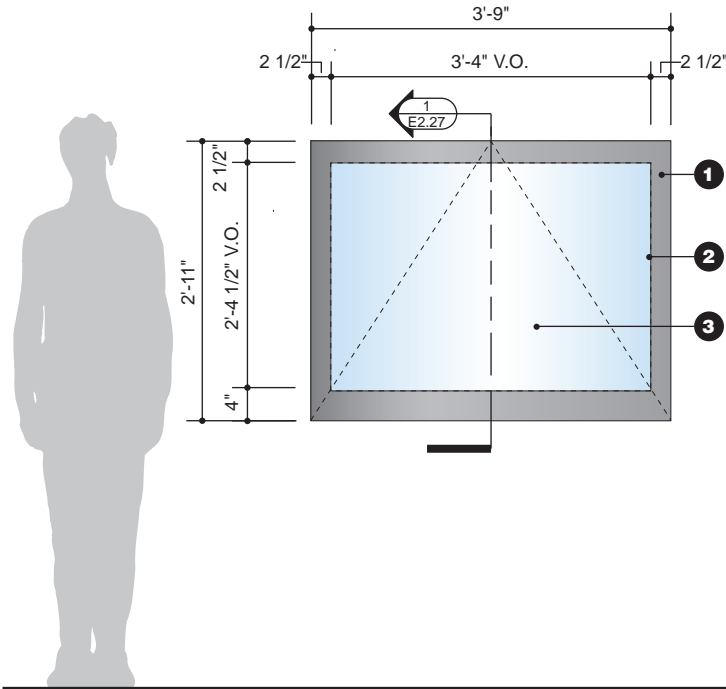
The CWN-3.2 cabinet is used to display sign types TT-5 and TR-5 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.



APPENDIX E2 Legacy Sign Types

CWN-6 Cabinet Outside Elevation



1

Elevation - CWN-6 Cabinet

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWN-6 sign cabinet:

Sign Type TT-4 - See Section E2

Associated Sign Structures:

The CWN-6 sign cabinet can be mounted to the following sign structures:

Sign Type SFM - See Section B3

Sign Type SPY- See Section B3

Sign Type SWM - See Section B4

Description

General

The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

Sign type CWN sign cabinets mount to SWM, SFM, and SPY sign structures.

(V.O. = Visual Opening)

1 Stainless Steel Sign Cabinet

The CWN sign cabinet shall be fabricated stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2 Opening in the CWN Face

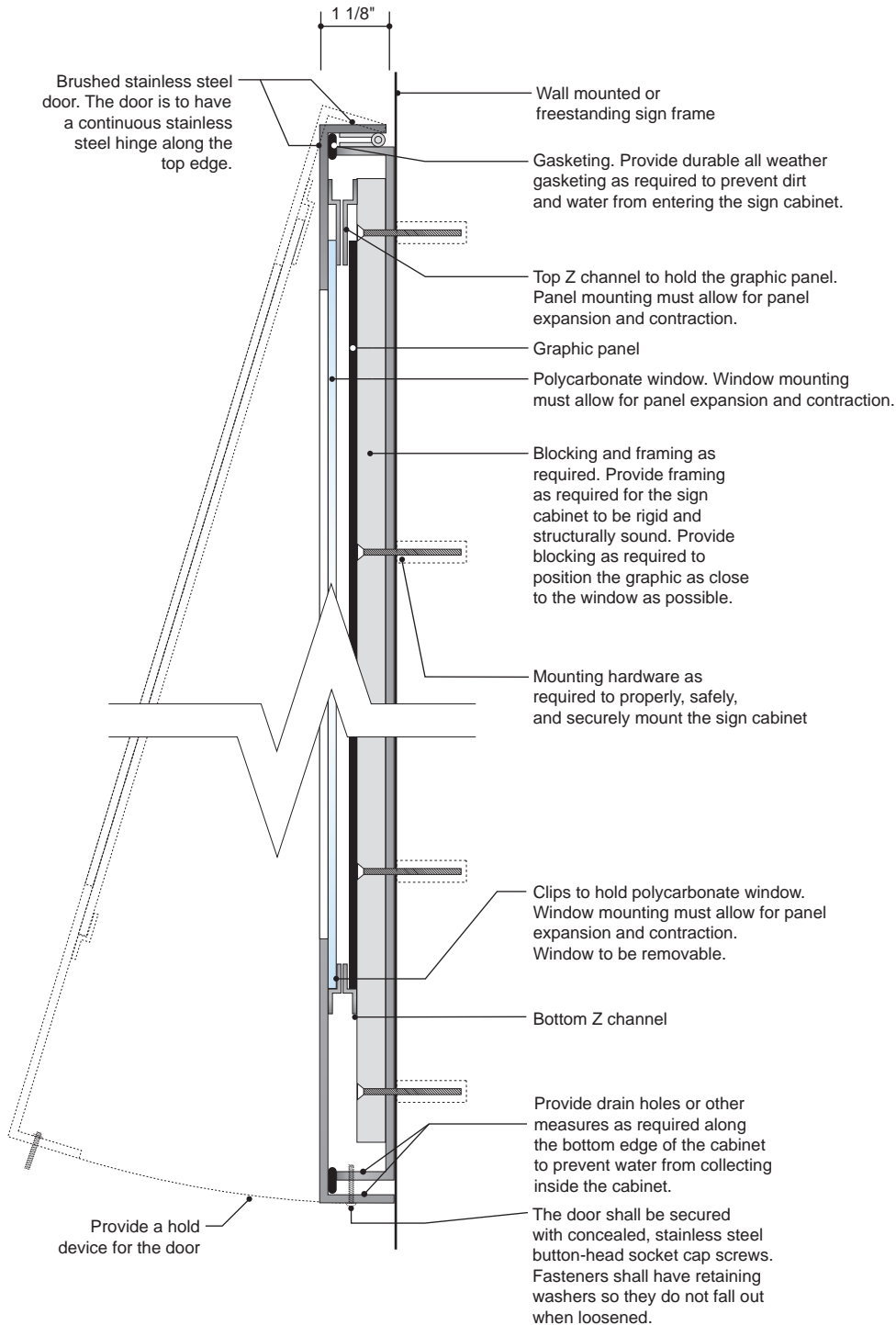
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3 Polycarbonate Window

Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.

**APPENDIX E2
Legacy Sign Types**

**CWN-6 Cabinet
Section**



1 Section View: CWN-6 Cabinet
Scale: N.T.S.

Description

General

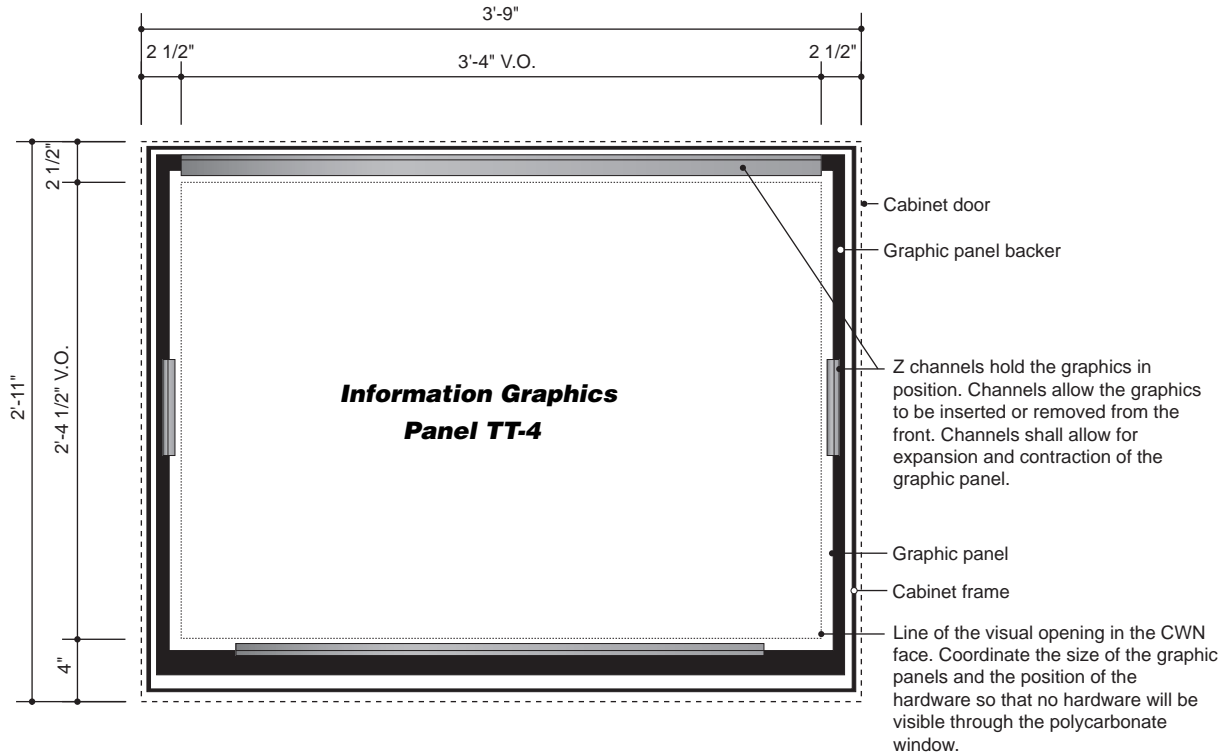
The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

APPENDIX E2 Legacy Sign Types

CWN-6 Cabinet Inside Elevation



1 **Inside Elevation: CWN-6 Cabinet** (Cabinet shown with door removed)
Scale: 1" = 1'-0"

Description

General

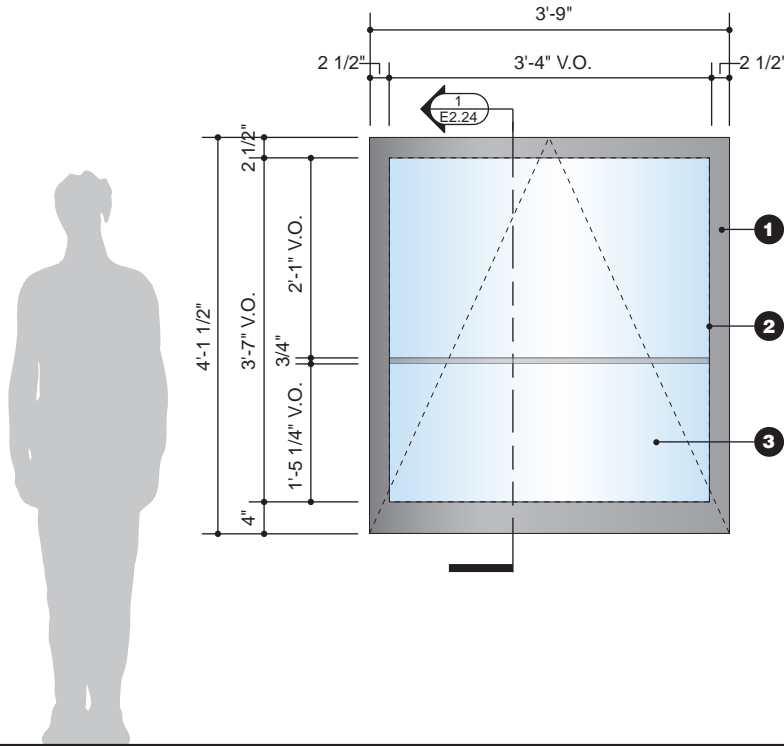
The CWN-6 sign cabinet is custom fabricated from stainless steel and displays a single graphic panel.

The CWN-6 cabinet is used to display sign type TT-4 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

APPENDIX E2 Legacy Sign Types

CWN-7 Cabinet Outside Elevation



1 Front Elevation: CWN-7 Cabinet

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWN-7 sign cabinet:

Sign Type TT-3 - See Section E2

Sign Type TR-6 - See Section E2

Associated Sign Structures:

The CWN-7 sign cabinet can be mounted to the following sign structures:

Sign Type SFM - See Section B3

Sign Type SPY- See Section B3

Sign Type SWM - See Section B4

Description

General

The CWN-7 sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Stainless Steel Sign Cabinet

The CWN sign cabinet shall be fabricated from stainless steel. Visible surfaces shall have a brushed finish, horizontal grain. The face of the cabinet shall be hinged to provide access to the cabinet interior and the graphics mounted inside the cabinet, behind the polycarbonate window. Provide internal framing and bracing as needed to keep the face smooth and flat and to properly, safely, and securely support the sign types that are mounted within the sign cabinet. No hardware shall be visible on the CWN face. Provide weep holes as required.

2 Opening in the CWN Face

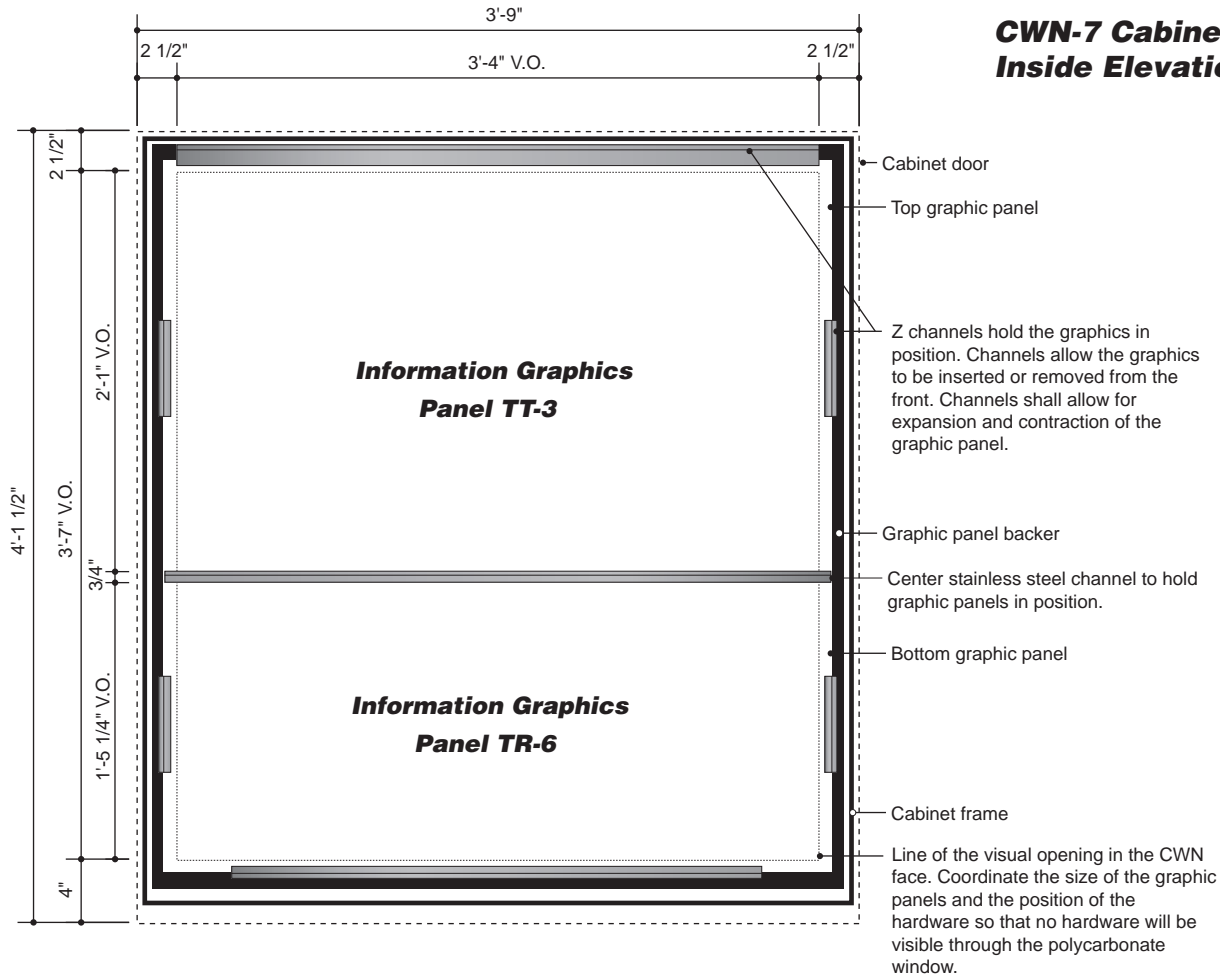
Provide a precisely cut opening in the face of the CWN cabinet. The opening shall be backed up by a clear polycarbonate panel.

3 Polycarbonate Window

Provide a clear scratch-resistant polycarbonate window behind the opening in the face of the CWN cabinet. The polycarbonate shall be mounted flush to the back of the face. The mounting for the polycarbonate shall allow the polycarbonate to be removed and replaced for maintenance.

APPENDIX E2 Legacy Sign Types

CWN-7 Cabinet Inside Elevation



1 **Inside Elevation: CWN-7 Cabinet** (Cabinet shown with door removed)
Scale: 1" = 1'-0"

Description

General

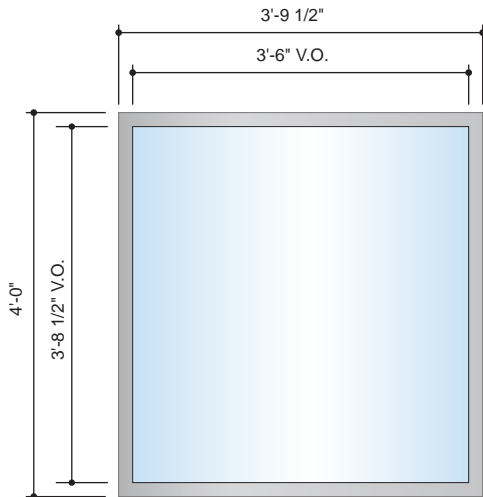
The CWN-7 series sign cabinet is custom fabricated from stainless steel and displays two graphic panels.

The CWN-7 cabinet is used to display sign type TT-3 and TR-6 panels.

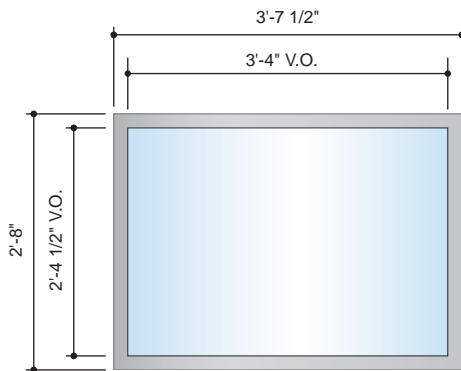
The CWN sign cabinets mount to the SWM, SFM, or SPY sign structures.

APPENDIX E2 Legacy Sign Types

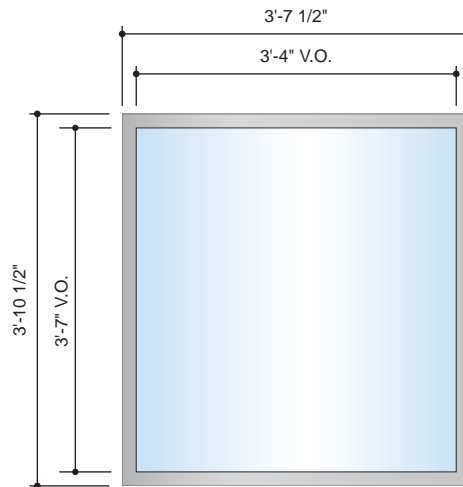
Snap Frame Size Summary



CWS-2
Snap Frame for Double Graphic
Display - TT-3 Train Times / Metra
Schedule and TR-6 Train Route Diagram



CWS-6
Snap Frame for Single Graphic
Display - TT-4 Train Times / Metra Schedule



CWS-7
Snap Frame for Double Graphic
Display - TT-3 Train Times / Metra
Schedule and TR-6 Train Route Diagram

Overall frame sizes are based on the Alpina Security FlipUp snap frame.

(V.O. = Visual Opening)

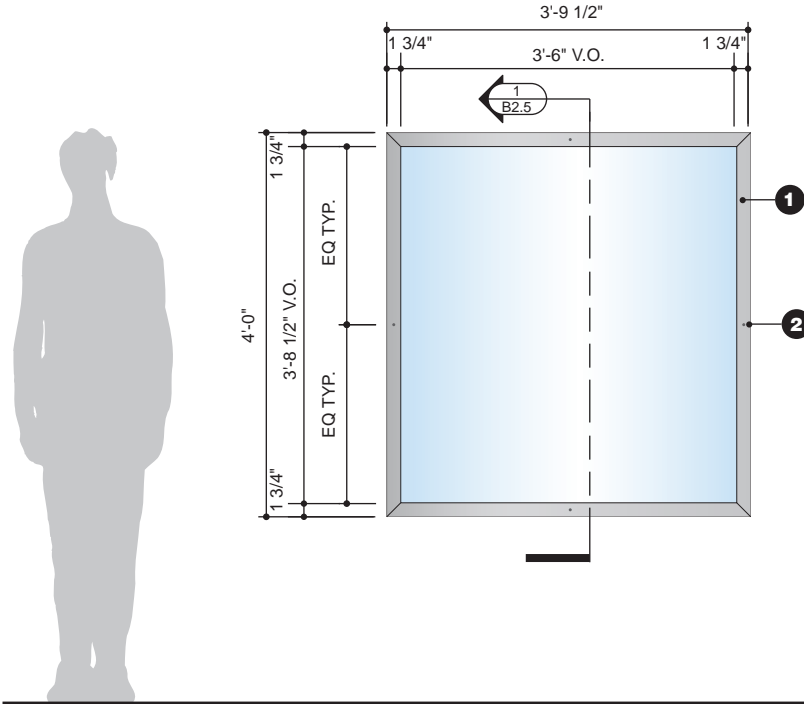
In snap frames where two information products are displayed, both products are printed on a single substrate.

Frame fabrication and mounting as outlined in this Manual may need to be revised in order to coordinate with site conditions and maintain design intent.

See the Technical Specifications for additional information and requirements.

APPENDIX E2 Legacy Sign Types

CWS-2 Snap Frame Outside Elevation



1

Front Elevation - CWS-2 Snap Frame

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWS-2 snap frame:

Sign Type TR-6 - See Section E2
Sign Type TT-3 - See Section E2

Associated Sign Structures:

The CWS-2 snap frame can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY- See Section B3
Sign Type SWM - See Section B4

Description

General

The CWS-2 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-2 snap frame is used to display sign type TR-6 / TT-3 panels (when displayed in the CWS-2 frame, TT-3 and TR-6 graphics are printed on a single substrate).

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Snap Frame

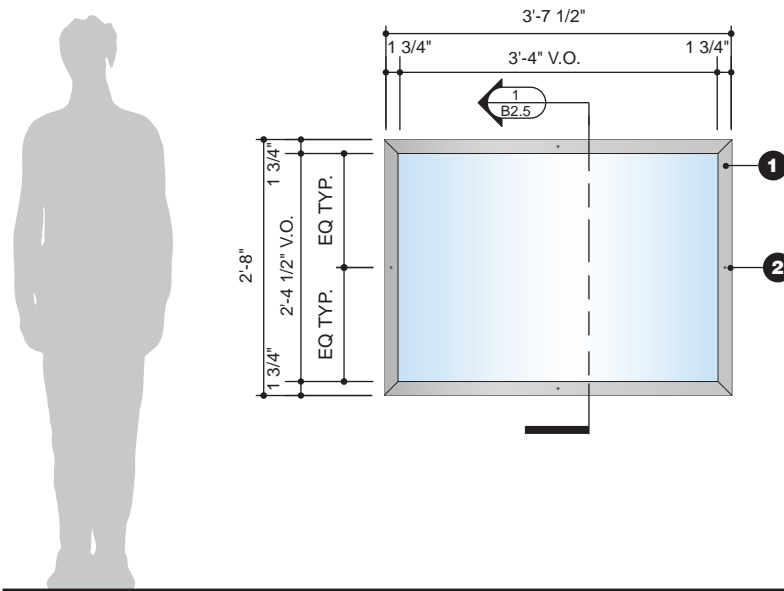
CWS-2 shall be a custom-sized Alpina "FlipUp" "Deep Bottom" FF-RP snap frame cabinet with 1.75" round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8" clear polycarbonate overlay window, and 0.040" black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

2 Security Screws

Frame shall have tamper-resistant, stainless steel, 10-24 pin-in hex drive security locking screws.

APPENDIX E2 Legacy Sign Types

CWS-6 Snap Frame Outside Elevation



1 Front Elevation - CWS-6 Snap Frame

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWS-6 snap frame:
Sign Type TT-4 - See Section E2

Associated Sign Structures:

The CWS-6 snap frame can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY- See Section B3
Sign Type SWM - See Section B4

Description

General

The CWS-6 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-6 snap frame is used to display sign type TT-4 panels.

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Snap Frame

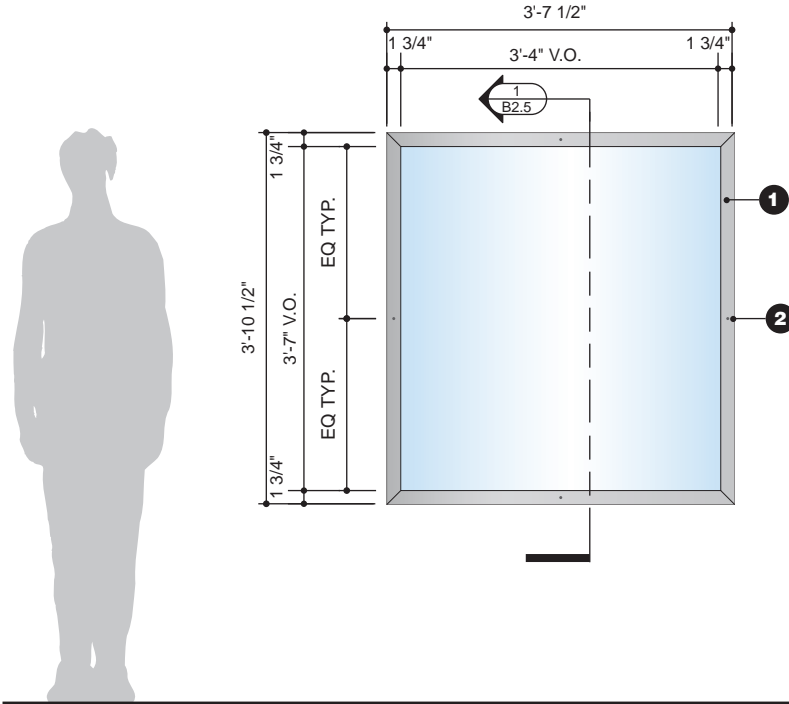
CWS-6 shall be a custom-sized Alpina "FlipUp" "Deep Bottom" FF-RP snap frame cabinet with 1.75" round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8" clear polycarbonate overlay window, and 0.040" black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

2 Security Screws

Frame shall have tamper-resistant, stainless steel, 10-24 pin-in hex drive security locking screws.

APPENDIX E2 Legacy Sign Types

CWS-7 Snap Frame Outside Elevation



1 Front Elevation - CWS-7 Snap Frame

Scale: 1/2" = 1'-0"

Associated Printed Graphics:

The following information graphics are used with the CWS-7 snap frame:

Sign Type TR-6 - See Section E2
Sign Type TT-3 - See Section E2

Associated Sign Structures:

The CWS-7 snap frame can be mounted to the following sign structures:
Sign Type SFM - See Section B3
Sign Type SPY- See Section B3
Sign Type SWM - See Section B4

Description

General

The CWS-7 frame is a custom snap frame fabricated from aluminum and displays a single graphic panel.

The CWS-7 snap frame is used to display sign type TR-6 / TT-3 panels (when displayed in the CWS-7 frame, TT-3 and TR-6 graphics are printed on a single substrate).

The CWS snap frames mount to the SWM, SFM, or SPY sign structures.

(V.O. = Visual Opening)

1 Snap Frame

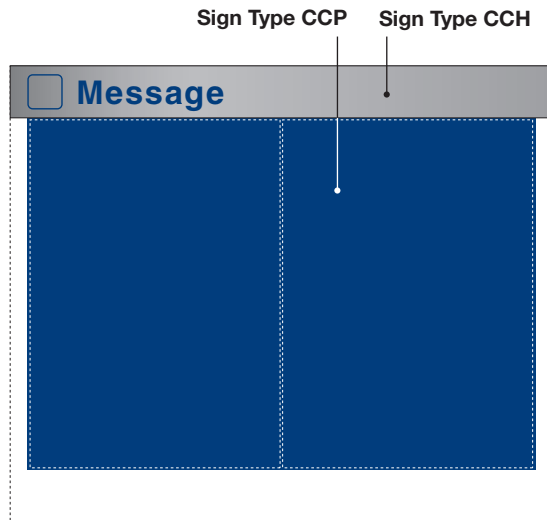
CWS-7 shall be a custom-sized Alpina "FlipUp" "Deep Bottom" FF-RP snap frame cabinet with 1.75" round / security edge profile, or an equivalent vandal-resistant aluminum snap frame accepted by the RTA. Frame is fabricated using single faced opening; four hinged, round profile, vandal-resistant security frame extrusions, 1/8" clear polycarbonate overlay window, and 0.040" black styrene backer sheet. An ABS spatula, or similar tool, required to open the vandal-resistant frame, shall be provided with each frame. Frame shall have a silver, exterior-grade, vandal-resistant, anodized aluminum finish.

2 Security Screws

Frame shall have tamper-resistant, stainless steel, 10-24 pin-in hex drive security locking screws.

APPENDIX E2 Legacy Sign Types

CTA Case Build-Out Overview



Information Graphics in Existing CTA Cabinets

Sign Type CCP

This is an internal support structure installed within existing CTA cabinets to hold graphic display panels closer to the glass front.

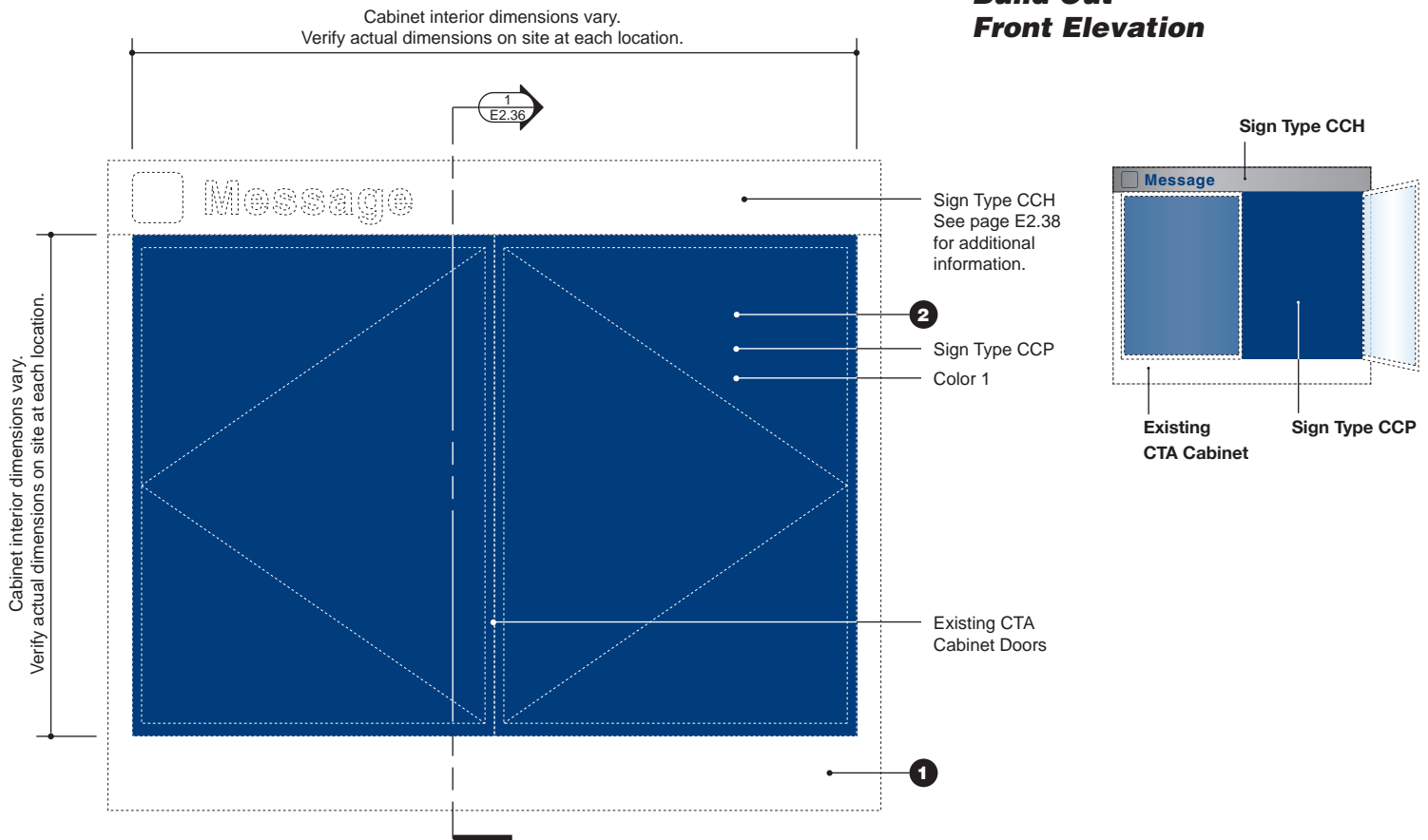
Sign Type CCH

This is a header panel which mounts to the existing CTA cabinets.

All are custom sized to respond to the existing CTA cabinet sizes.

APPENDIX E2 Legacy Sign Types

CCP-1 CTA Case Build-Out Front Elevation



1 Elevation - Sign Type CCP-1 Scale: N.T.S.

Description

General

Sign type CCP-1 is a custom sign support structure installed within existing CTA Transit Information cabinets.

Information graphic sign types are mounted to the face of sign type CCP-1.

1 Existing CTA Transit Info Cabinet

Verify on site the conditions, dimensions, and materials used in the existing CTA Transit Information Cabinet (CTA sign type P-18 or similar) at each location. Remove any existing graphics from the cabinet and clean and prepare the cabinet interior to receive the CCP sign structure.

2 New Cabinet Interior Back Wall

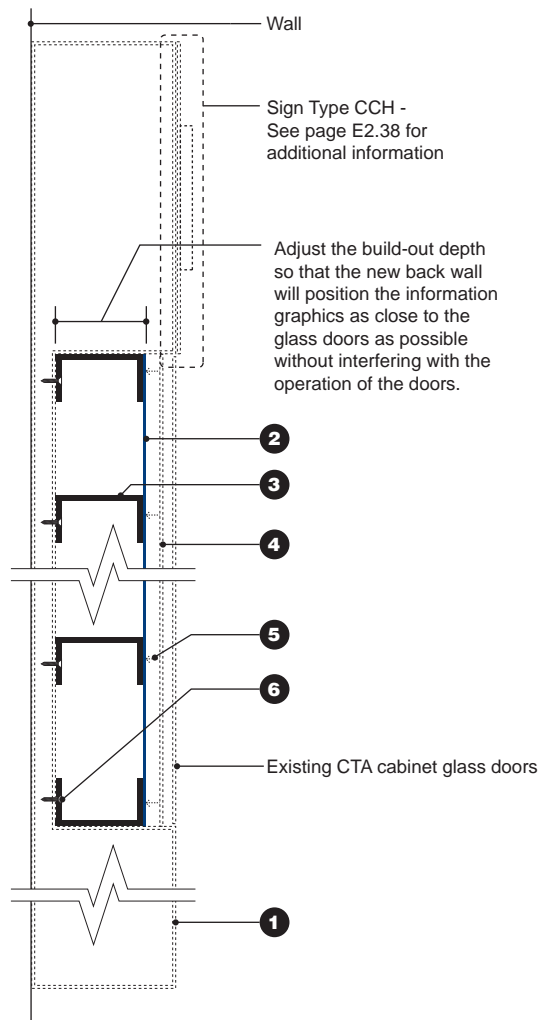
Provide a new cabinet back wall. Position the new back wall so the faces of the mounted information graphic panels are as close to the existing glass doors as possible without interfering with the operation of the doors.

The new back wall shall be vandal-resistant and permanently mounted in position. The new back wall shall be smooth and precisely fitted to the interior of the existing sign cabinet. If

possible, the new back wall shall not have seams. If seams are needed, use the minimum number possible and position them to be hidden as much as possible. Hardware shall not be visible on the face of the new back wall when the other sign types are mounted to it. The new back wall shall be painted aluminum.

APPENDIX E2 Legacy Sign Types

CCP-1 CTA Case Build-Out Section



1

Section - CCP-1 Sign Structure

Scale: 3" = 1'-0"

Description

General

Sign type CCP-1 is a custom sign support structure installed within existing CTA Transit Information cabinets. Information graphics are mounted to the face of sign type CCP.

1 Existing CTA Transit Info Cabinet

Verify on site the conditions, dimensions, and materials used in the existing CTA Transit Information Cabinet (CTA sign type P-18 or similar) at each location. Remove any existing graphics from the cabinet and clean and prepare the cabinet interior to receive the CCP sign structure.

2 New Cabinet Interior Back Wall

Provide a new cabinet back wall. Position the new back wall so the faces of the mounted information graphic panels are as close to the

existing glass doors as possible without interfering with the operation of the doors.

The new back wall shall be vandal-resistant and permanently mounted in position. The new back wall shall be smooth and precisely fitted to the interior of the existing sign cabinet. If possible, the new back wall shall not have seams. If seams are needed, use the minimum number possible and position them to be hidden as much as possible. Hardware shall not be visible on the face of the new back wall when the other sign types are mounted to it. The new back wall shall be painted aluminum.

3 Internal Framing

Provide concealed internal framing and bracing as needed for the CCP sign structure to be rigid and structurally sound, to be properly positioned, and to properly, safely, and securely

support the sign types mounted to the CCP face.

4 Information Graphic Panels

Sign types like TC, BC, and MN shall be mounted to the CCP face using high strength hook and loop tape (Velcro). See the Message Schedule for the exact sign types to be included at each CCP location.

5 High Strength Hook & Loop Tape

Provide high strength hook and loop tape to securely adhere sign panels to the new back wall.

6 Mounting Hardware

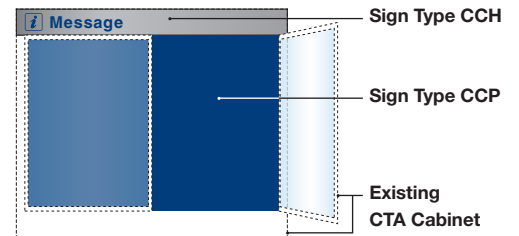
Provide mounting hardware as required to properly, safely, and securely mount the CCP sign structure within the existing display case.



APPENDIX E2

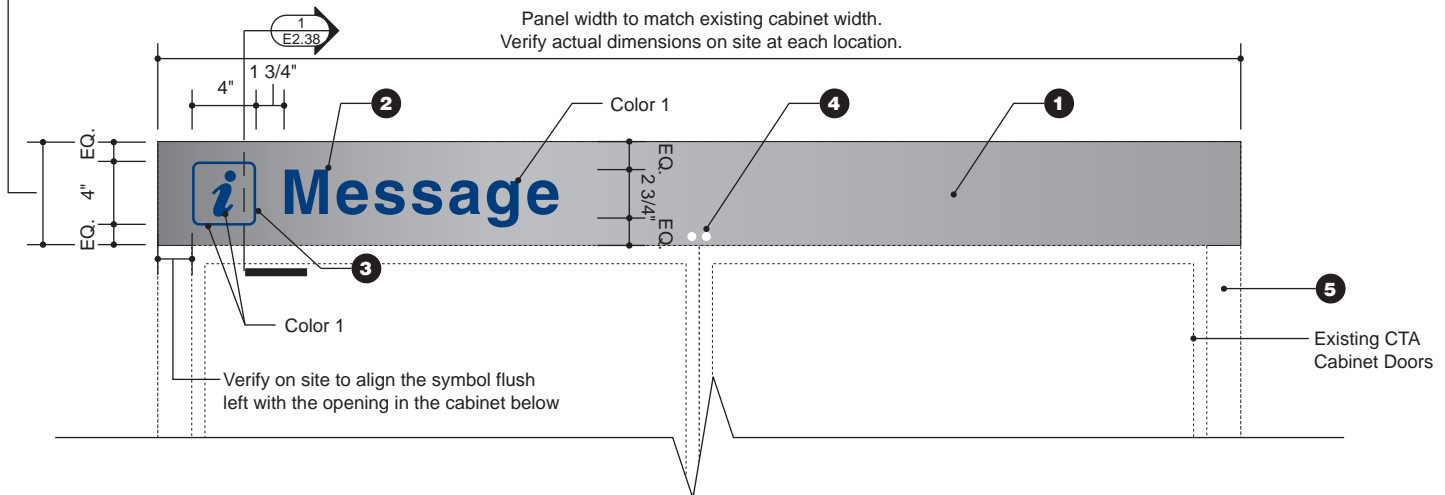
Legacy Sign Types

Sign Type CCH-2
Front Elevation



The new sign panel is to align flush with the top of the cabinet and flush with the top of the cabinet opening. Verify actual dimensions on site at each location.

Panel width to match existing cabinet width.
Verify actual dimensions on site at each location.



1 Elevation - Sign Type CCH-2

Scale: 1" = 1'-0"

Description

General

Sign type CCH-2 is a custom fabricated brushed stainless steel panel with cut out acrylic letters and a milled acrylic symbol panel with a stainless steel insert. The panel shall be mounted to the front of an existing CTA Transit Information display case to act as the header panel when new interagency information graphics are installed within the case.

1 Sign Panel

The sign panel shall be 1/8" thick stainless steel with a brushed finish, horizontal grain. The panel shall be properly, safely, securely and permanently mounted to the face of an existing CTA Transit Information case (CTA sign type P-18 or similar). The top and sides of the panels shall align exactly with the top and sides of the cabinet. The bottom edge of the panel shall

align with the top of the openings in the cabinets.

2 Cut-out Letters

1/4" thick water-jet cut out acrylic letters shall be permanently mounted flush to the face of the sign panel. The letters shall have a painted finish.

3 Milled Acrylic Symbol Panel With Stainless Steel Insert

1/4" thick milled acrylic symbol panel with 1/8" thick raised symbol and border. The acrylic panel shall have painted finish (all surfaces) and shall be permanently pin mounted to the sign structure. Symbol background shall be a cut-out 16 gauge stainless steel insert with a horizontal brushed finish. Stainless steel shall be precisely cut-out to fit within the acrylic

panel and around the raised symbol.

4 Openings for Existing Locks

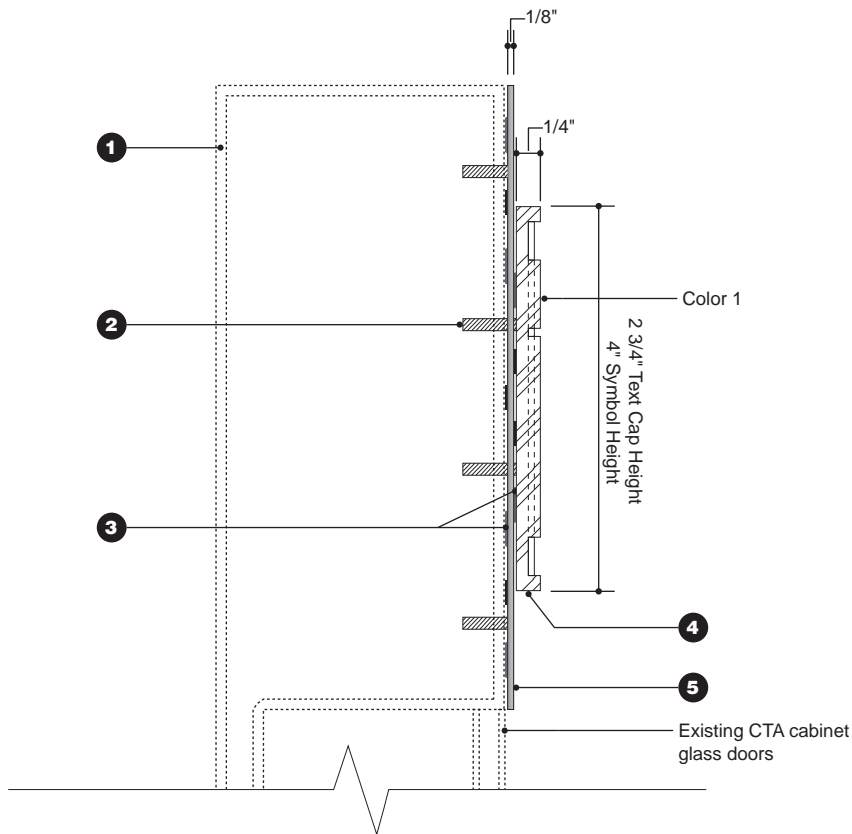
Provide openings in the panels as required to permit access to existing cabinet locks. The openings shall be precisely sized and located so that they align exactly with the locks.

5 Existing CTA Transit Info Cabinet

Coordinate the panel dimensions and fabrication with existing conditions and dimensions. Prior to fabrication, verify on site the conditions, dimensions, and materials of the existing cabinets at each location where a sign type CCH is to be installed. Verify if there are existing locks or other existing features that will need to be coordinated with the sign fabrication and/or installation.

APPENDIX E2 Legacy Sign Types

CCH-2 Cabinet Section



1

Section - Sign Type CCH-2

Scale: 1/2" = 1"

Description

General

Sign type CCH-2 is a custom fabricated brushed stainless steel sign panel with painted cut out acrylic letters and a milled acrylic symbol panel with a stainless steel insert mounted to an existing CTA Transit Information display case.

1 Sign Cabinet/Wall

Verify the materials and construction used at each existing location where new letters, symbol, and sign panel are to be pin mounted.

2 Stainless Steel Mounting Pins

Provide threaded stainless steel mounting pins as needed to properly, safely, and securely mount the cut out letters, symbol, and sign panel. Coordinate the quantity, size, and length of the pins with the size and weight of the letters, symbol, and sign

panel and with the materials and conditions at each of the locations where the letters, symbol and sign panel shall be mounted. Properly and permanently secure the mounting pins to the backs of the letters, symbol, and sign panel. Provide the appropriate high strength, exterior grade, permanent adhesive to permanently secure the mounting pins. Determine the correct adhesive for each location where the letters, symbol, and sign panel are to be pin mounted. All mounting materials and adhesives shall be suitable for use in exterior locations.

3 VHB Tape and Silicone Adhesive

Cut out letters, symbol, and sign panel shall be adhered in position using high strength VHB tape and silicone adhesive. Carefully apply the tape and adhesive to the backs of the letters, symbol,

and sign panel. Tape and adhesive shall not be visible when the letters, symbol, and sign panel are in position. Coordinate the tape and adhesive as needed with the materials that the letters, symbol, and sign panel are to be mounted to at each location. Use tape and adhesive suitable for exterior locations.

4 Cut-out Acrylic Letters

Water jet cut out letters from acrylic. Letters shall have a painted finish on the faces and returns. See pages B3.13 and B3.14 in Section B3 for additional information.

5 Stainless Steel Sign Panel

The sign panel shall be 1/8" stainless steel with a brushed finish, horizontal grain. See Page E2.37 for additional information.

APPENDIX E3

Interagency Location Abbreviations

The following abbreviations have been established for interagency locations that have received signage, or where signage is planned. These abbreviations are for use with the sign location numbers as well as document labeling. For future interagency locations, choose abbreviations that will not conflict with the existing abbreviations.

35th St/Lou Jones: SX	Healy: HE
47th St/Kenwood: KN	Homewood: HM
55th/56th/57th St: HP	Irving Park: IP
63rd St: WL	Jefferson Park: JP
59th St/Univ of Chicago: UC	Joliet: JS
79th St/Chatham: CH	Lake-Cook: LC
87th St/Woodruff: WD	LaSalle Street: LS
95th St/Chicago State University: CS	Lisle: LI
95th and Western: WT	Main Street/Evanston: MN
103rd St/Rosemoor: RM	Mayfair-Montrose: MA
111th St/Pullman: PL	Millennium Station: MS
Auburn Park: AP	Museum Campus/11th Street: MC
Aurora: AU	Naperville: NA
Blue Island: BI	Oak Park Transportation Center: OP
CDOT Walk to Transit: CD	Ogilvie Transportation Center: OT
Chicago Union Station: CU	Peterson Ridge: PR
Cicero: CI	Ravenswood: RV
Clybourn: CL	Rogers Park: RP
Davis: DS	Rosemont: RO
Des Plaines: DP	Route 59: RT
Elgin: EL	Van Buren: VB
Forest Park: FP	Waukegan: WK
Grayland: GL	Western (MDN, MDW, NCS): WM
Gresham: GR	Western (BNSF): WB
Harvey: HA	Wheaton: WH

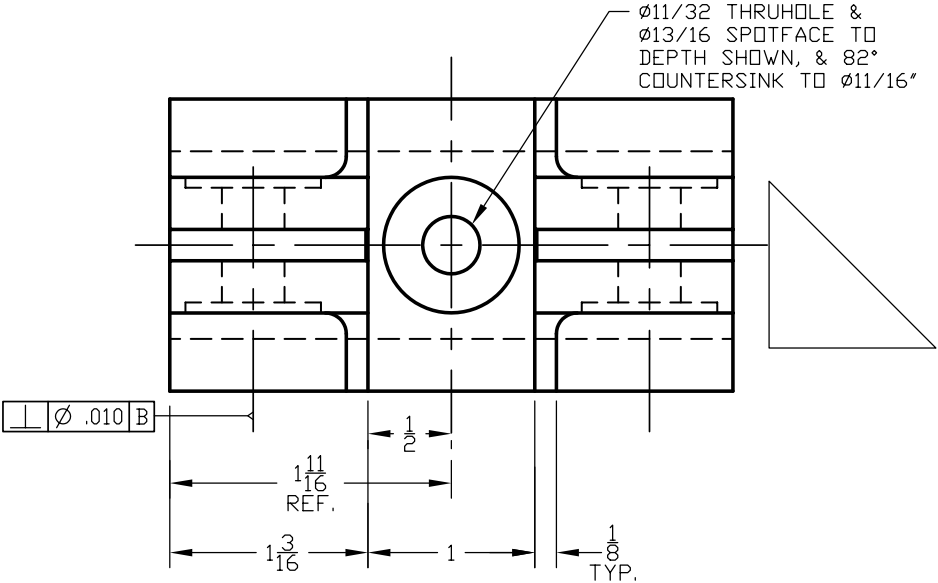


APPENDIX E4

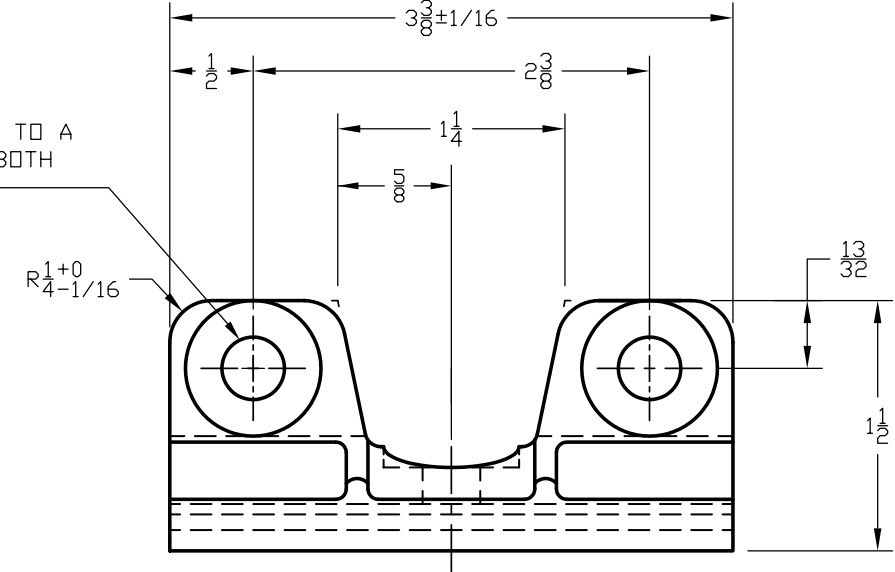
CTA Sign Mounting Bracket
CTA Item No. 2100361

Drawing shown for
reference only.

Not to scale.



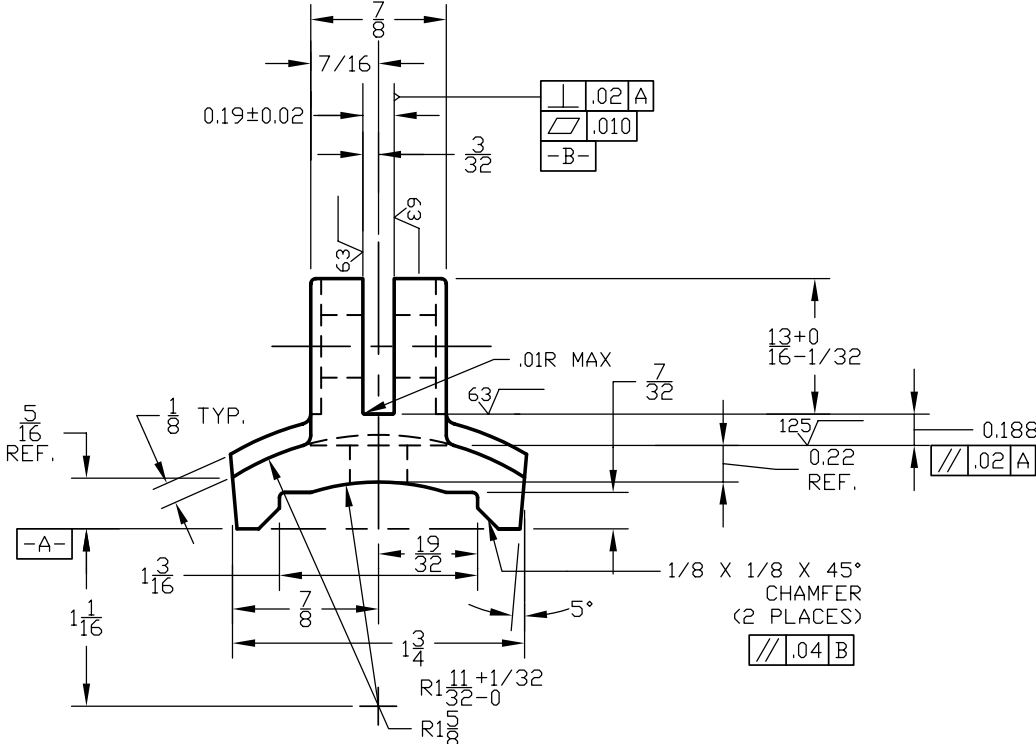
3/8 THRUHOLE &
 $\phi 13/16$ SPOTFACE TO A
DEPTH OF $1/16$ " BOTH
SIDES TYPICAL




MATERIAL:
CAST ALUMINUM, ANSI H35.1 ALLOY 713.0
TEMPER: T5
WEIGHT: 5 OUNCES (APPROX.)

FINISH:
CATHODIC ACRYLIC ELECTROCOAT (UV CORRECTED)
COLOR: BLACK
THICKNESS: 0.6-0.8 MIL

- NOTES:
- 1) $1/32$ X 45° CHAMFER ON ALL HOLES.
THRU HOLES: CHAMFER BOTH SIDES.
 - 2) REMOVE ALL BURRS AND SHARP EDGES.
 - 3) $1/16$ " CASTING RADIUS UNLESS OTHERWISE SPECIFIED.
 - 4) MAXIMUM CASTING DRAFTS 3° UNLESS OTHERWISE SPECIFIED.
 - 5) WORK TO DIMENSIONS. DO NOT SCALE DRAWING.



REV. 2 REDRAWN ON CAD W/ CHANGES ON 2/15/06
BY AOL/PF.
REV. 1 REDRAWN ON CAD W/ CHANGES ON 6/18/03
BY JSC.
SUPERCEDES DR'G A-534

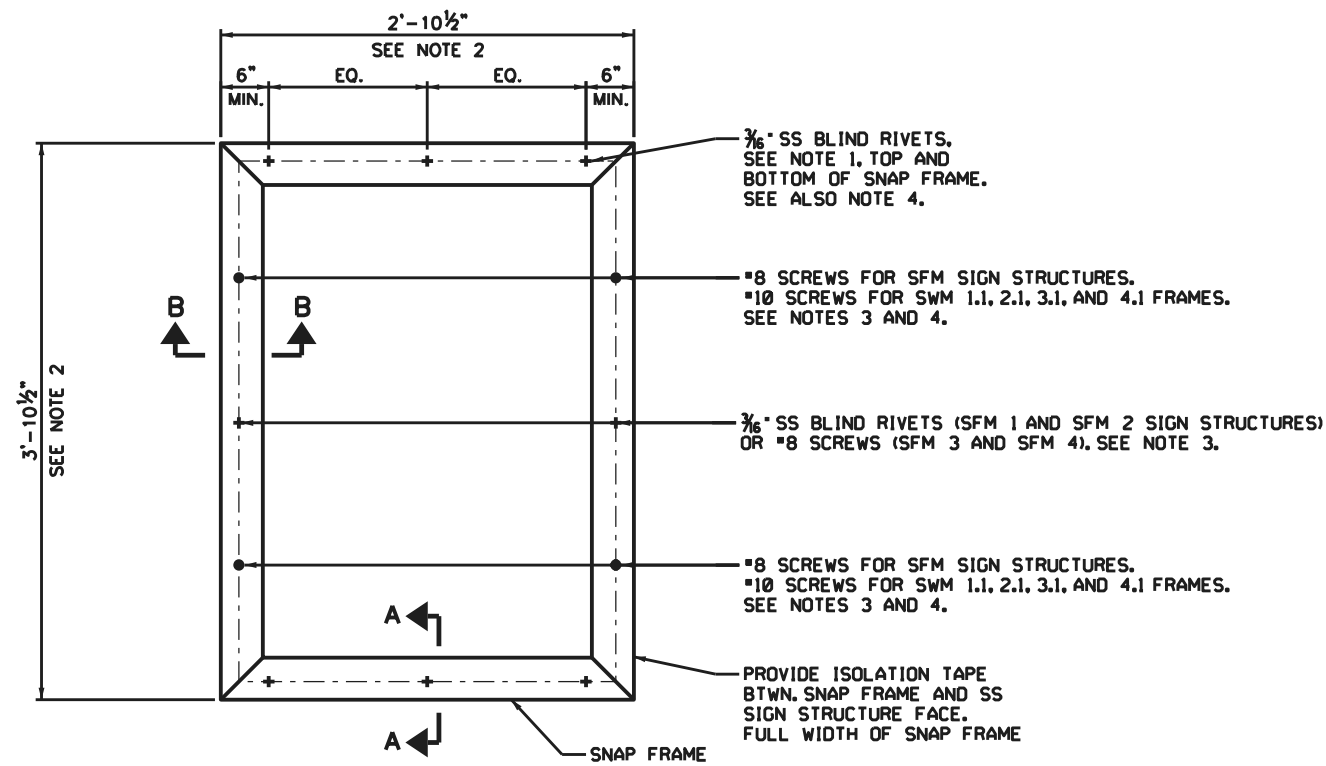
THIRD ANGLE PROJECTION	DIMENSIONING & TOLERANCING PER ANSI (USAS) Y14.5M-1982	 PLANNING FACILITIES DEVELOPMENT
	UNLESS OTHERWISE SPECIFIED SURFACE FINISH DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $\pm 2'$ FRACTIONS: $\pm 1/32$ DECIMALS: .XX $\pm .02$ DECIMALS: .XXX $\pm .005$ RIVET & BOLT EDGE MARGIN $\pm .05$ BEND RADIUS: .01 ON .03 & .06 $\pm .03$ ON .09 & GREATER SHEET METAL CORNER RADIUS INT .19 EXT .25 .16 .00	
	Drawn JMT Scale 1-1/2=1 Date 4/12/63	Checked 8/4/7/8/03 Approved C-534

APPENDIX E4

Details of installation of CWS
snap frames on SFM, SPY,
and SWM sign structures

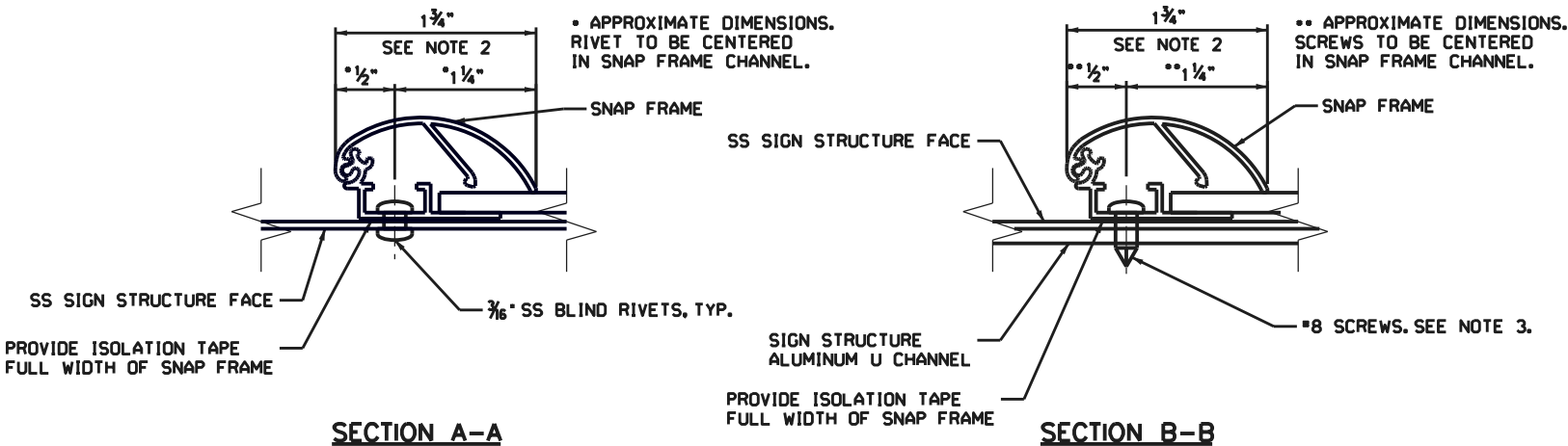
Drawing shown for
reference only.

Not to scale.



SNAP FRAME ATTACHMENT

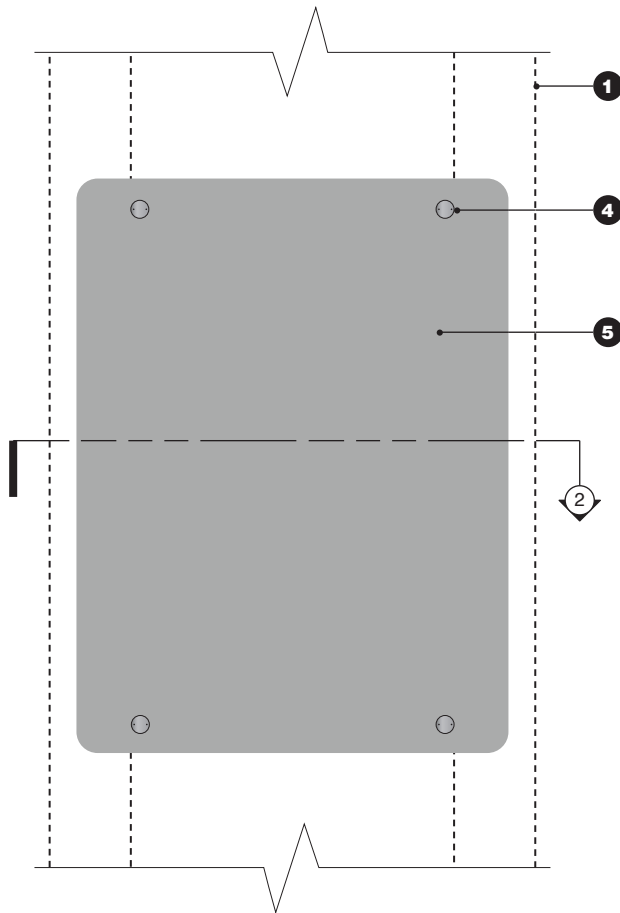
(SNAP FRAME SHALL BE ALPINA FLIP-UP DEEP BOTTOM FF-RP 1.75")



- NOTES:
1. LOCATE RIVETS TO MISS CORNER PLATES AND COMPONENTS OF THE SNAP FRAME.
 2. DIMENSIONS SHOWN ARE PER RTA INFORMATION DESIGN STANDARD MANUAL.
 3. COORDINATE SCREW OR RIVET LOCATIONS WITH CENTERS OF SFM AND SWM CHANNEL LEGS.
 4. FOR SWM FRAME, USE *8 S.S. SELF DRIVING SCREWS PER FACE PLATE DETAILS, IP1-058.
 5. FOR DIRECT MOUNT OF FRAME TO CONCRETE WALL, USE 3/16" DIA. S.S. HEX HEAD CONCRETE SCREWS WITH MANUFACTURER'S MINIMUM EMBEDMENT DEPTH AND 1 1/2" MINIMUM CONCRETE EDGE DISTANCE.

APPENDIX E4

CMPC Type Bracket Assembly



1 Elevation - CMPC Bracket Assembly
Scale: 1 1/2" = 1'-0"

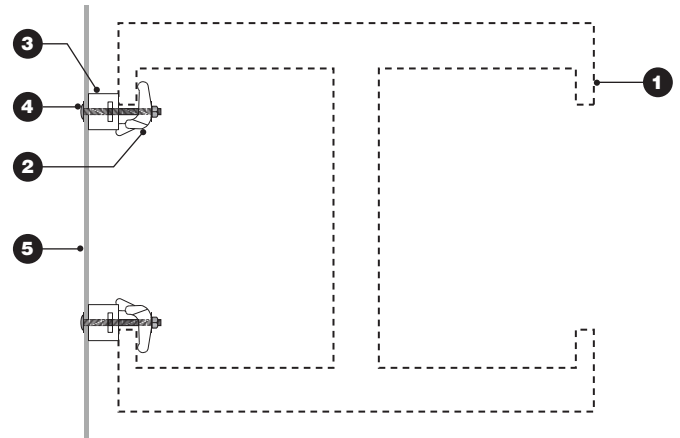
Associated Sign Types:

The following sign types can be mounted using the CMPC type bracket assembly:

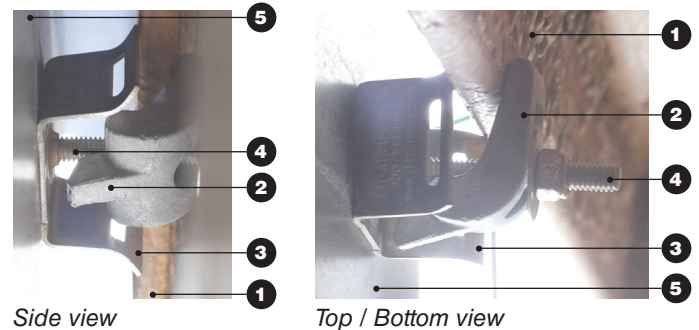
Sign Type BS - See Section C1

Sign Type DSS - See Section D3

Sign Types ID-1 and ID-2 - See Section B1



2 Section - CMPC Bracket Assembly
Scale: 1 1/2" = 1'-0"



3 Photo Examples of CMPC Bracket Installation
Scale: NTS

Description

General

The CMPC type bracket assembly is a sign bracket assembly that consists of a combination of a standard stainless steel post clip and a standard stainless steel sign bracket used for banded signs. The CMPC bracket assembly is suitable for mounting sign panels to the open side of CTA elevated columns and similar structures. The drawing and photo examples above demonstrate how the two pieces are used to install the sign panels.

1 Existing CTA Elevated Train Support Column or Similar Structures

Verify on site the existing conditions at each mounting location.

2 Stainless Steel Post Clip

3 Stainless Steel Mounting Bracket

4 Mounting Hardware

Provide stainless steel screws, flat washers, lock washers, and nylon washers as needed to properly, safely, and securely mount the aluminum sign panel to the CMPC bracket assembly. Install washers in the following order: 1) screw head, 2) lock washer, 3) flat washer, 4) nylon washer, 5) sign panel. All mounting hardware and components shall be vandal-resistant and suitable for exterior use. The mounting hardware shall allow for removal of the sign panels for maintenance, repairs, and updates.

5 Aluminum Sign Panel

The CMPC type bracket assembly securely mounts aluminum sign panels including, but not

limited to, sign types BS, DSS, ID-1, and ID-2 to existing CTA columns and similar structures. Coordinate the bracket quantity, size, and configuration with the type and quantity of signs to be attached to the column. Coordinate location of mounting holes in the sign panel with the size and configuration of the existing column at each installation location. See the Message Schedule for information on the type and quantity of signs requiring CMPC bracket assemblies at each sign location.

APPENDIX E5

Examples of Interagency Signage Installations

The following photographs show examples of various types of interagency signage that have been installed at several interagency locations.



CWS snap frames on SFM support structure, installed with SMAB mounting on concrete sidewalk
Location: Lake Cook Road



CWS snap frame on SWM support structure
Location: Harvey



DSO sign installed with SON support structure
Location: Naperville



APPENDIX E5

Examples of Interagency Signage Installations

The following photographs show examples of various types of interagency signage that have been installed at several interagency locations.



Two DSS-4 sign panels installed on a CTA elevated structure column with CMCC mounting brackets.
Location: LaSalle Street



Two DSS-4 sign panels installed on a light pole with CMFS mounting brackets.
Location: 95th and Western



DSO sign installed with SOS support structure
Location: Van Buren

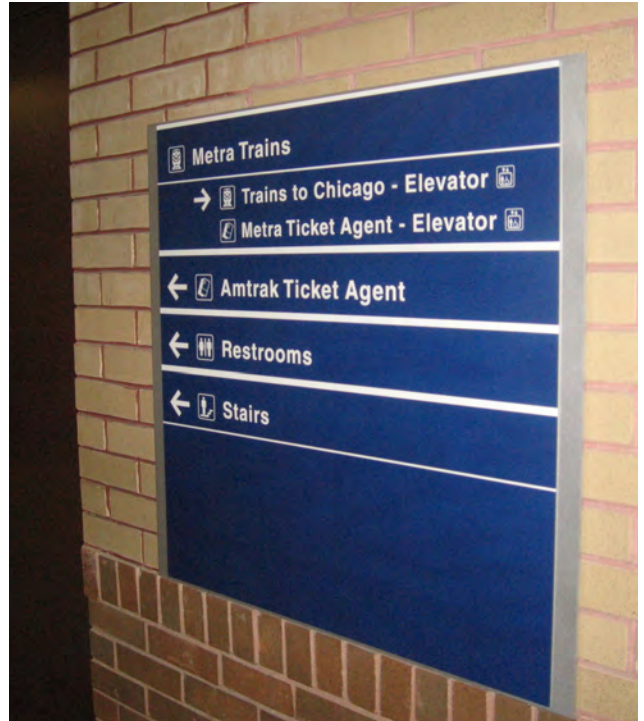
APPENDIX E5

Examples of Interagency Signage Installations

The following photographs show examples of various types of interagency signage that have been installed at several interagency locations.



DSS-1 sign panel installed on a light pole with CMCS mounting brackets.
Location: LaSalle Street



DSW sign installed with SWD support structure
Location: Joliet

APPENDIX E5

Examples of Interagency Signage Installations

The following photographs show examples of various types of interagency signage that have been installed at several interagency locations.



- BB and BS sign panels installed on SRSP post with CMFB mounting brackets
- BA and BT products installed in CPN cabinets with CMBP mounting bracket
- SRSP post installed with SMCB base on concrete sidewalk

Location: Lake Cook Road

