Northstar Corridor

Northstar Corridor Development Authority
Minnesota Department of Transportation

Preliminary Engineering

System Signage and Graphics
Volume I - E

Northstar Corridor
Northstar Corridor Development Authority
Minnesota Department of Transportation
Preliminary Engineering
Graphics Standards and Directives

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Date: 06/01/01
Minnesota Department of Transportation
SP - 9901 - 01

Contents

I. Introduction

General

The purpose of this document is to establish uniform signing in and around the Northstar Commuter Rail facilities. The sign types are designed to provide uniform displays to varying conditions encountered by transit users and ensure their safe and efficient use of the rail transit system. The sign types utilize common sign materials and are designed to be economically fabricated and maintained. Adherence to the concepts during final design phases will help insure uniform appearance, fabrication economies, an ultimately a safe and pleasant commute for the transit patron.

Commuter rail is but one component of the regional transit program which includes bus and light rail transit modes - all of which can be used by the transit patron in a single trip. Graphics can help define this system and its components through the system logo and subsystem logos, vehicle graphics, color coding and route map design. Sign standards included in this document do not attempt to define the comprehensive identity or brand components, but do imply their use as sign elements. When developed, these systemwide identity components should be carefully integrated and coordinated with the wayfinding concepts to help ensure overall ease of public transit use for many years.

Classification of Signs / Viewing Criteria

Some of the sign types are sized according to the class of roadway from which they are view ed, as higher speed roads require larger signs with greater viewing distances. These signs are located typically along expressways and arterial and secondary roads. The class of roads and corresponding sign size references are:

Road/Size Class	Traffic Lanes	Speed
Class A -	2-lane low A.D.T.	35 or less
Class B -	2-lane low A.D.T.	40 - 55
	2-lane	35 or less
Class C -	2-lane	40 - 55
	Multi-lane	35 - 50

Compliance With Existing Sign Standards and Codes

All signs placed on state or federal roads and on-site traffic control signs shall comply with the guidelines and conventions of the *Manual of Uniform Traffic Control Devices* and most recent revisions and the Minnesota Department of Transportation (MNDOT)sign standards. On-site regulatory signs should however utilize sign supports, finishes and mounting devices consistent with the station and site sign components.

Site identification signs shall comply with the setback requirements of MNDOT as well as size and height requirements of applicable local sign ordinances. All on-site signs shall comply with the most current provisions of the Americans With Disabilities Act (A.D.A.).

Maintenance

It is common in large sign installations for signs to become weathered, damaged or vandalized over time. Often replacement signs are installed in haste by various local sign companies using materials and artwork that are not standard. A key recommendation of these directives is to, during the construction document phase, "design" a maintenance program that will insure continued system conformance, immediacy and economy of sign installation and replacement.

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Graphics Elements

Common graphics elements in the commuter transit system are composed of a) type or lettering style; b) symbols including icons, trademarks and arrows and; c)standard colors used for graphic elements or backgrounds. All graphics elements are available in digital format for enlargement. These graphics elements shall be reproduced by digital or photographic enlargement only - hand cut reproduction is not permitted.

The Typeface - Myriad Condensed - Bold, a Type 1 font, was selected because of its strong legibility due to the stroke (s) to height ratio of 7.5:1 and the high character ratio between lower and uppercase letters if 0.7 to 1. These characteristics will insure maximum legibility distance for available display areas. The typeface is commonly used in European highway sign programs.

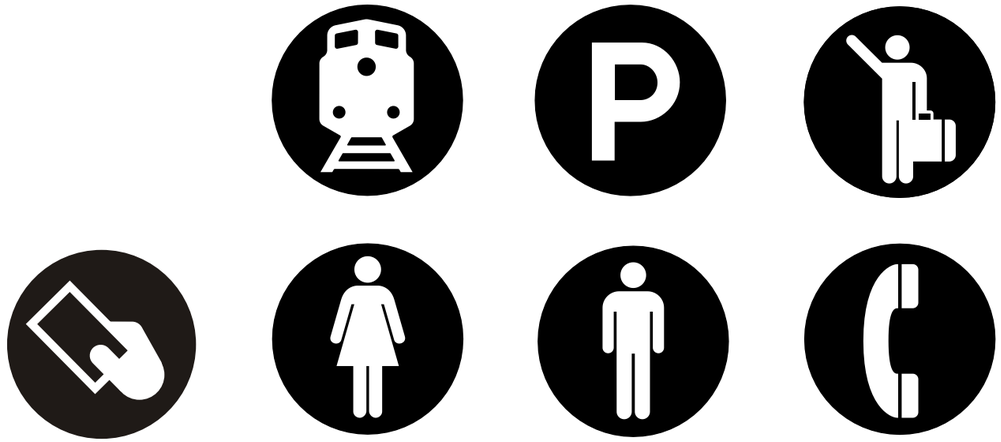
AaBbCcDdEeFfGgHhIi
JjKkLlMmNnOoPpQq
RrSsTtUuVvWwXxYy
Zz1234567890

2.1

Standard Symbols - Wayfinding
The following symbols are to be used throughout the rail system; in signage, maps and print graphic elements. All symbols shown here are available on CD in an EPS format.

Contact the Northstar Corridor Commuter Line Director of Graphics.

Symbols should not be reproduced from these manual pages. Only use image in EPS format.



Standard Symbols - Regulatory

The following symbols are to be used throughout the rail system; in signage, maps and print graphic elements. All symbols shown here are available on CD in an EPS format.

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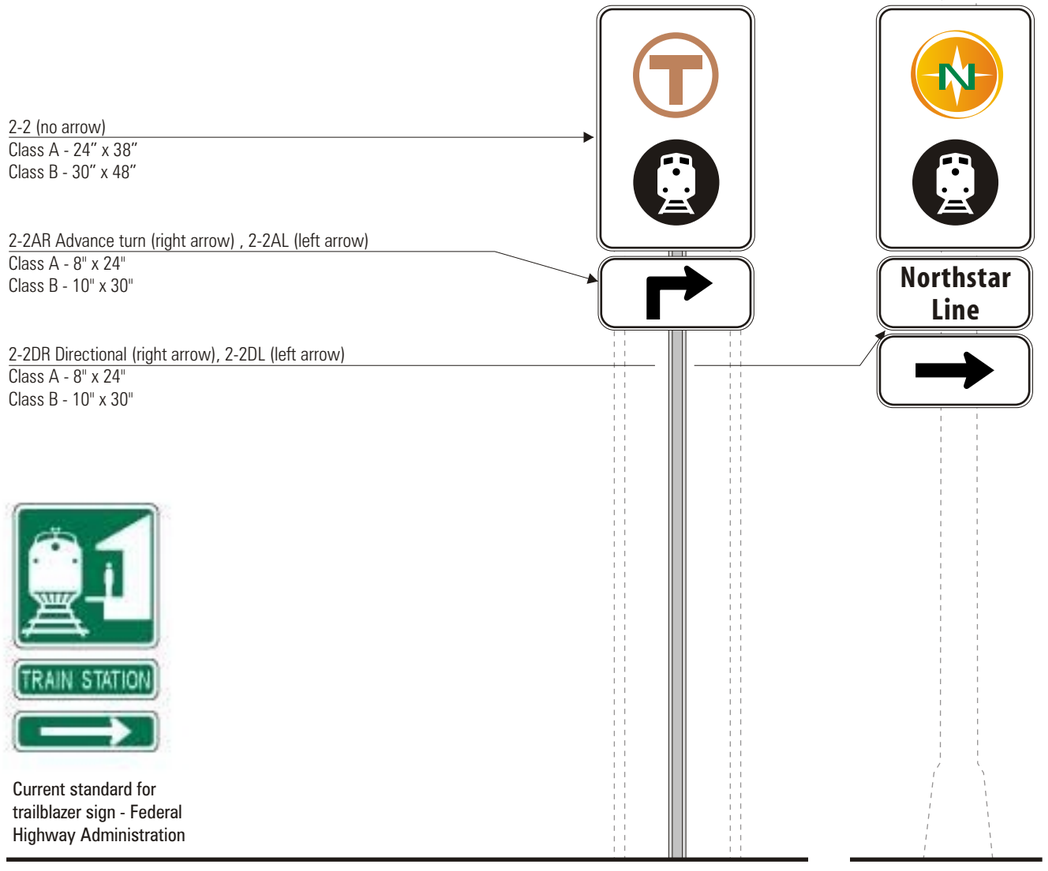
Trailblazer Sign Type 2-2

This sign is used to guide motorists to nearby commuter train stations and shall conform to MNDOT standards for location of trailblazer signs.

Fabrication Materials
Sign: Aluminum, 0.125 with white reflective film applied to face
Mounting: Single post, yielding breakaway, galv stl 7' min clr
Graphics: Silkscreen ink, vinyl film, various colors
Fasteners: Stainless stl.
Applicable mounting and placement standards: MNDOT

Final graphic elements are subject to development and approval of a standard symbol for commuter rail transit, which may be an extension of existing public transit identity or a variation of it to distinguish commuter rail from bus and light rail facilities, and may include identification of the specific commuter rail line. Some stations however may serve more than one commuter line and could serve both public and private transportation. These variables need to be addressed and resolved for the final design of trailblazer signs and will require approval and adoption of a standard by MNDOT for use on Federal and State roadways.



2-2 (no arrow)
Class A - 24" x 38"
Class B - 30" x 48"

2-2AR Advance turn (right arrow) , 2-2AL (left arrow)
Class A - 8" x 24"
Class B - 10" x 30"

2-2DR Directional (right arrow), 2-2DL (left arrow)
Class A - 8" x 24"
Class B - 10" x 30"

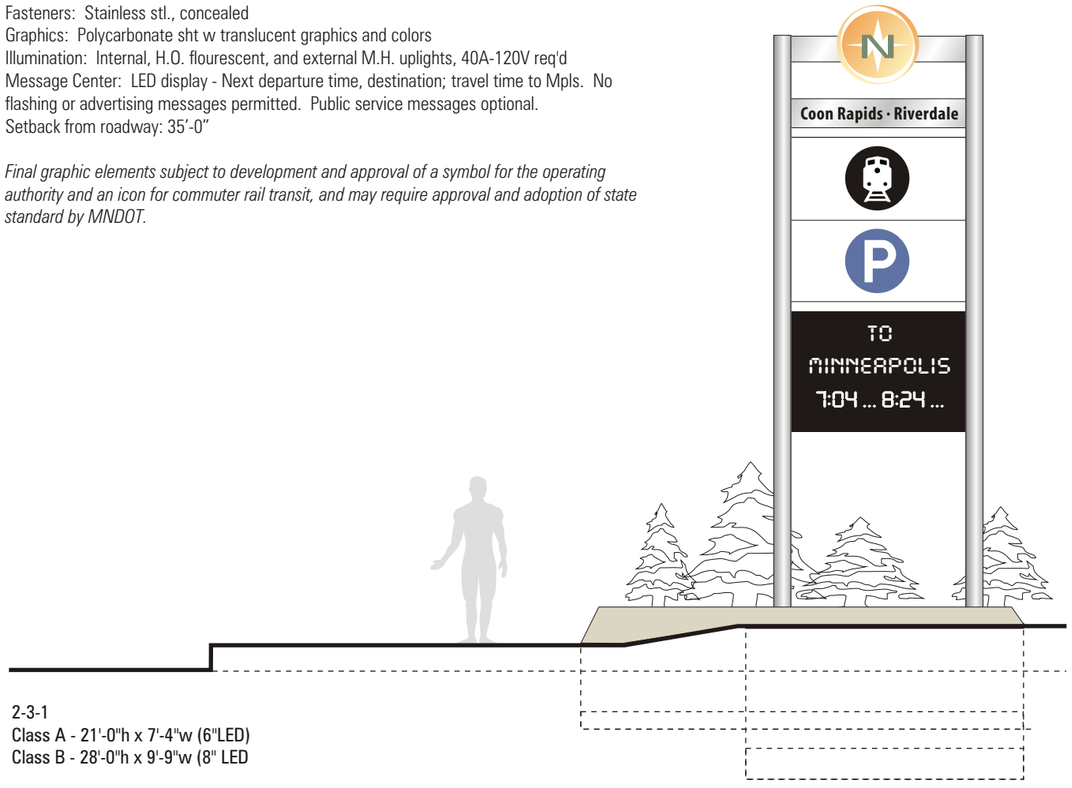
Current standard for trailblazer sign - Federal Highway Administration

Station Site Identification Sign Type 2-3

This sign is used to identify the commuter station and located ideally at the vehicular entrance or entrances to the site for approaching vehicles. The sign may be displayed in any of three layouts depending on vehicular approach conditions and visibility requirements. Local sign restrictions may also determine which layout is most desirable.

Fabrication and Mounting
Sign housing: Aluminum, 0.125, paint finish, acrylic polyurethane.
Structure: Galv. stl
Fasteners: Stainless stl., concealed
Graphics: Polycarbonate sht w translucent graphics and colors
Illumination: Internal, H.O. flourescent, and external M.H. uplights, 40A-120V req'd
Message Center: LED display - Next departure time, destination; travel time to Mpls. No flashing or advertising messages permitted. Public service messages optional.
Setback from roadway: 35'-0"

Final graphic elements subject to development and approval of a symbol for the operating authority and an icon for commuter rail transit, and may require approval and adoption of state standard by MNDOT.



2-3-1
Class A - 21'-0"h x 7'-4"w (6"LED)
Class B - 28'-0"h x 9'-9"w (8" LED

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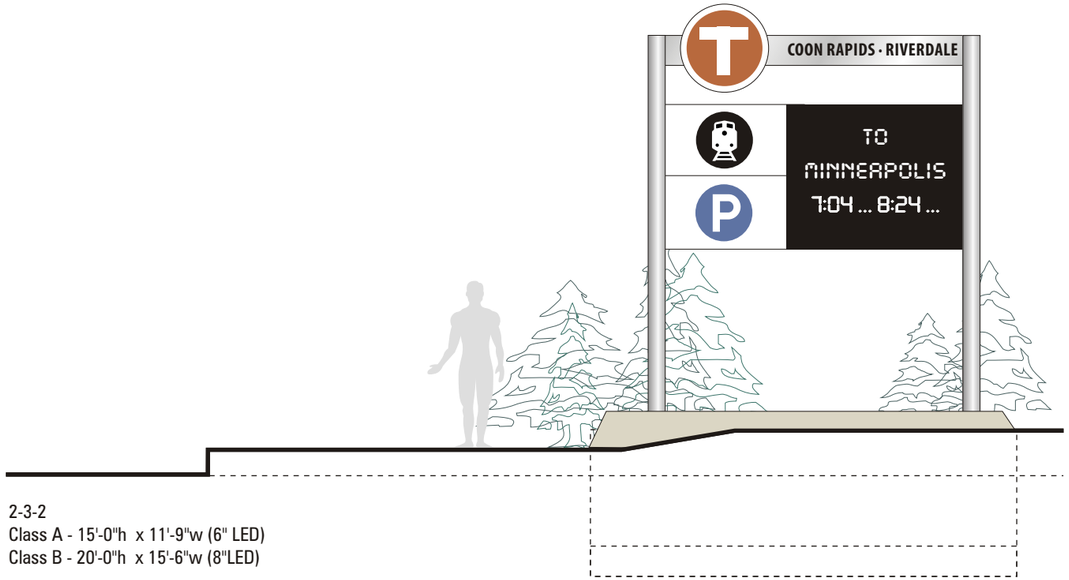
In lieu of the transit line identification, the station name could be displayed. In this case the line name ie. "Northstar Line" would be a part of the message center display.
The LED message display can be used to present current train departure times to each destination but should not display any flashing or moving messages.



2-3-2
Class A - 15'-0"h x 11'-9"w (6" LED)
Class B - 20'-0"h x 15'-6"w (8"LED)

Lower height signs should be used in areas of low traffic approach speeds and where local ordinances do not allow taller structures.

2-3-3
6'-9"h x 9'-9" w

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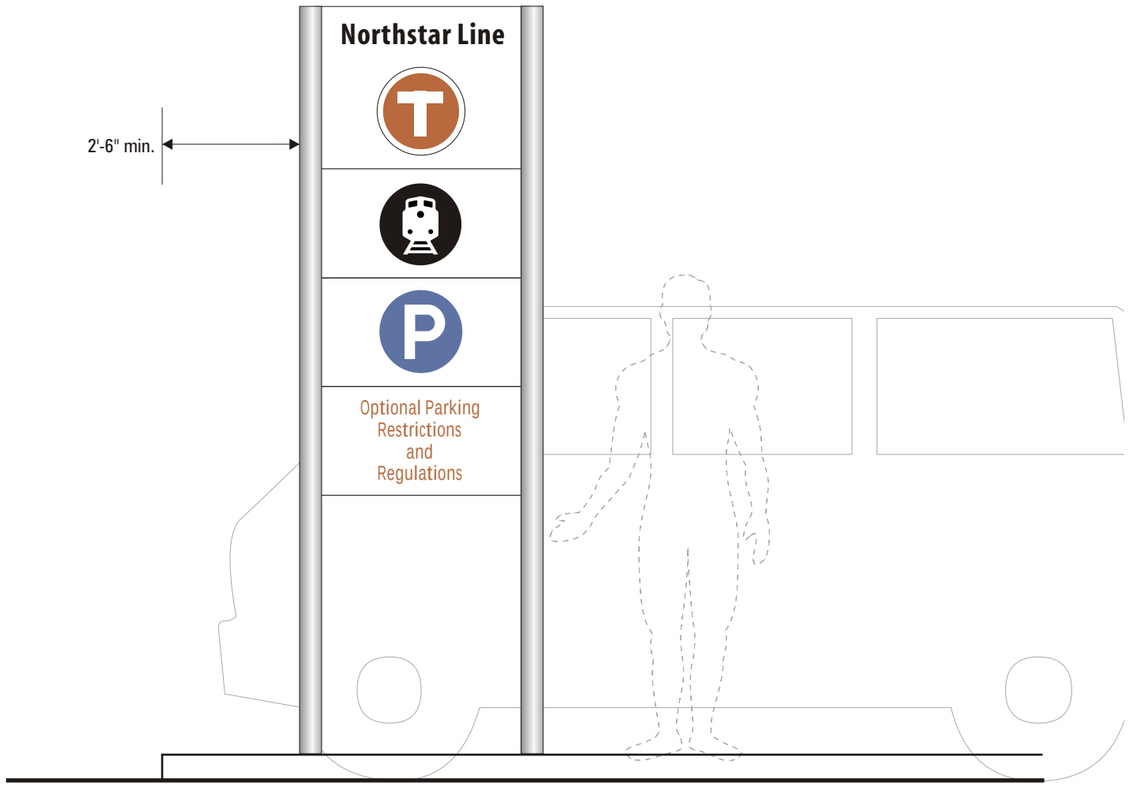
Station Site Identification Sign Type 2-3-4

This is a site identification sign. Used to identify secondary entrances.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective sht.
Fasteners: Stainless stl.



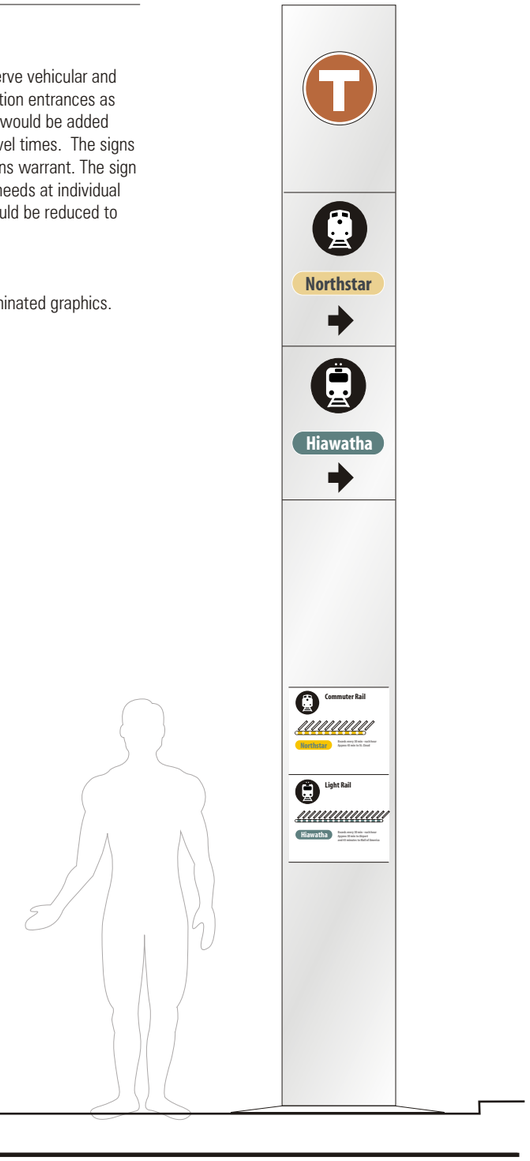
2-3-4
3--0" x 9'-6"

2.3.4

Station Site Identification Sign Type 2-3-5, 2-3-5A

This is a site identification sign used in downtown urban areas. The signs serve vehicular and pedestrian identification needs and are located near intersections and at station entrances as needed. As additional commuter or light rail lines are added the line names would be added below the appropriate rail icon as would the route map and approximate travel times. The signs are double-sided but in some cases could be four-sided (2-3-5A) as conditions warrant. The sign type can vary in layout and height depending on transit modes and viewing needs at individual locations. When used along trails and other pedestrian ways the height should be reduced to 12'-0" and could include a trail map.

Fabrication Materials
Sign: Aluminum, 0.125, paint finish, on galv stl structure, with internally illuminated graphics.
Mounting: Double nut to galv stl base plate, on tapered grout bed.
Graphics: Reverse screen on 3/16" matte clr. polycarbonate.
Fasteners: Stainless stl., concealed.
Electrical requirements: 20A 120V w H.O. flourescent lamps



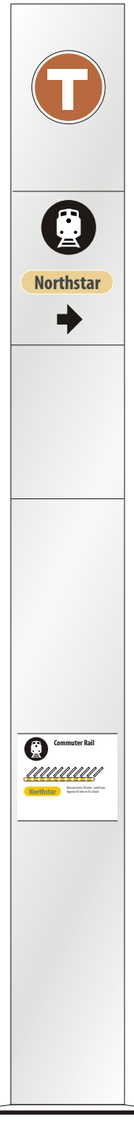
2-3-5
1'-8" x 16'-0"

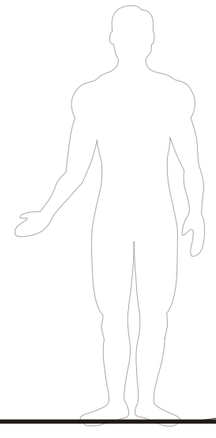
2.3.5

Station Site Identification Sign Type 2-3-6

This site Identification sign is used in urban areas where only one transit mode is available as is the case at the Minneapolis NE and the 5th Street entrance to the Minneapolis Downtown station sites. The sign is double-sided with similar information on the reverse side.

Fabrication Materials
Sign: Aluminum, 0.125, paint finish, on galv stl structure, with internally illuminated graphics.
Mounting: Double nut to galv stl base plate, on tapered grout bed.
Graphics: Reverse screen on 3/16" matte clr. polycarbonate.
Fasteners: Stainless stl., concealed.
Electrical requirements: 20A 120V w H.O. flourescent lamps





2-3-6
1'-8" x 16'-0"

2.3.6

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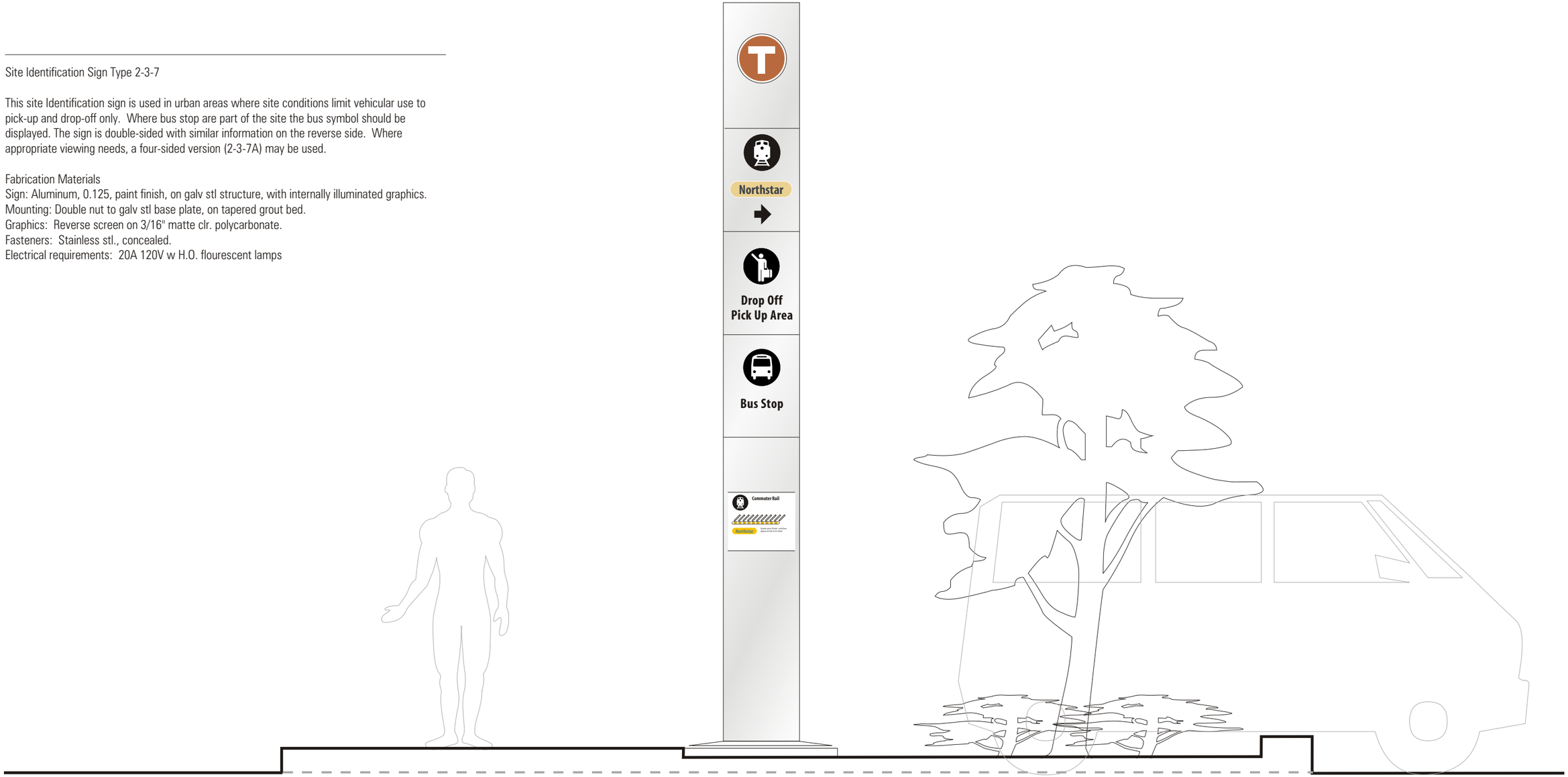
Site Identification Sign Type 2-3-7

This site Identification sign is used in urban areas where site conditions limit vehicular use to pick-up and drop-off only. Where bus stop are part of the site the bus symbol should be displayed. The sign is double-sided with similar information on the reverse side. Where appropriate viewing needs, a four-sided version (2-3-7A) may be used.

Fabrication Materials
Sign: Aluminum, 0.125, paint finish, on galv stl structure, with internally illuminated graphics.
Mounting: Double nut to galv stl base plate, on tapered grout bed.
Graphics: Reverse screen on 3/16" matte clr. polycarbonate.
Fasteners: Stainless stl., concealed.
Electrical requirements: 20A 120V w H.O. flourescent lamps



2-3-7
1'-8" x 16'-0"

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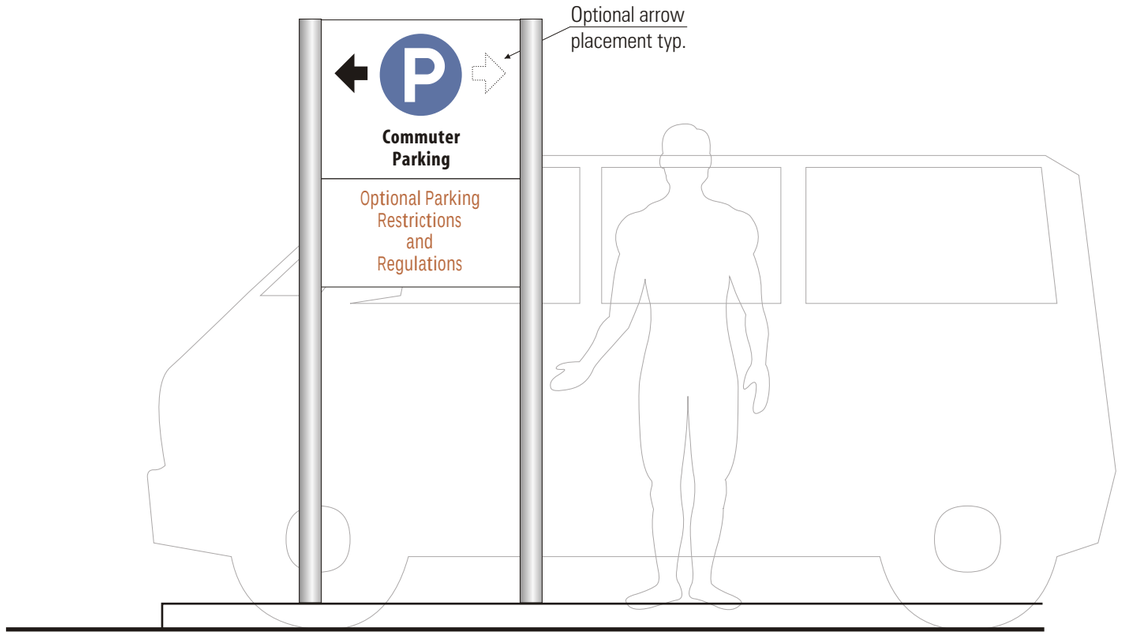
Vehicular Directional Sign Type 2-4-1

This sign is used to direct motorists to parking areas at the station or channel traffic in a desired direction for parking access. These signs are also used to define parking limitations and restrictions as determined by local authorities. Note - All directional signs type 2-4 are designed to allow standard size and placement of arrows. Arrow orientation shall be as specific site conditions require. An arrow pointing up to indicate ahead, shall always be positioned on the left side of the symbol.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin

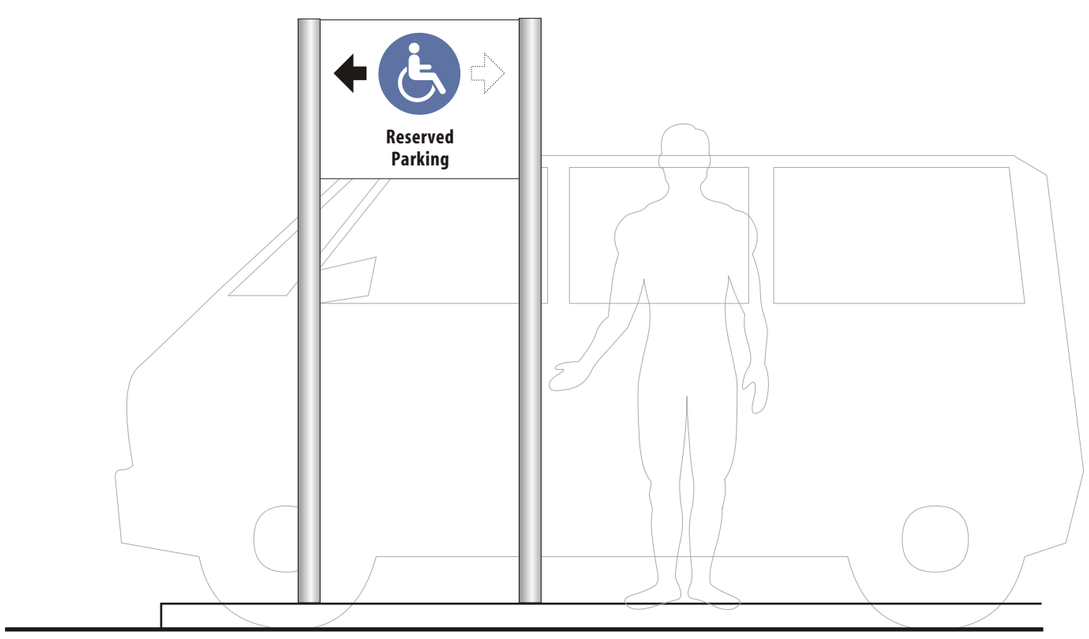


2-4-1
3'-0" x 8'-0"

Vehicular Directional Sign Type 2-4-2

This sign is used to direct motorists to reserved spaces for disabled patrons at the station.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.



2-4-2
3'-0" x 8'-0"

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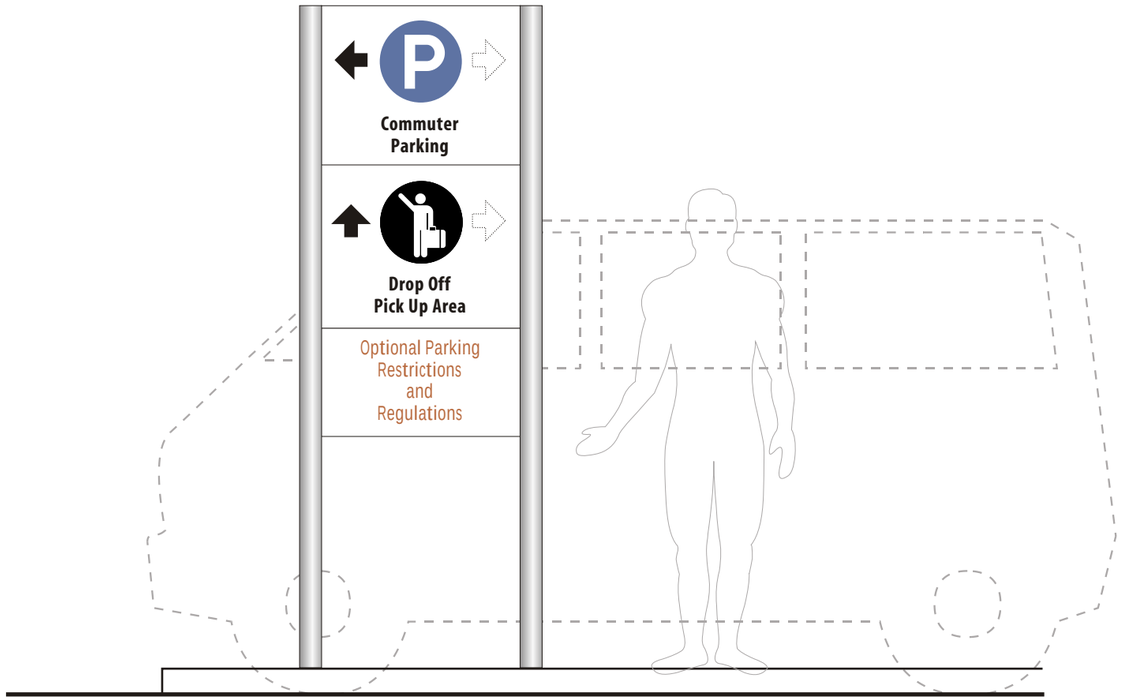
Vehicular Directional Sign Type 2-4-3

This sign is used to direct motorists to parking and drop-off and pick-up areas at the station. These signs are also used to define parking limitations and restrictions when located at entrances to parking lots.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.

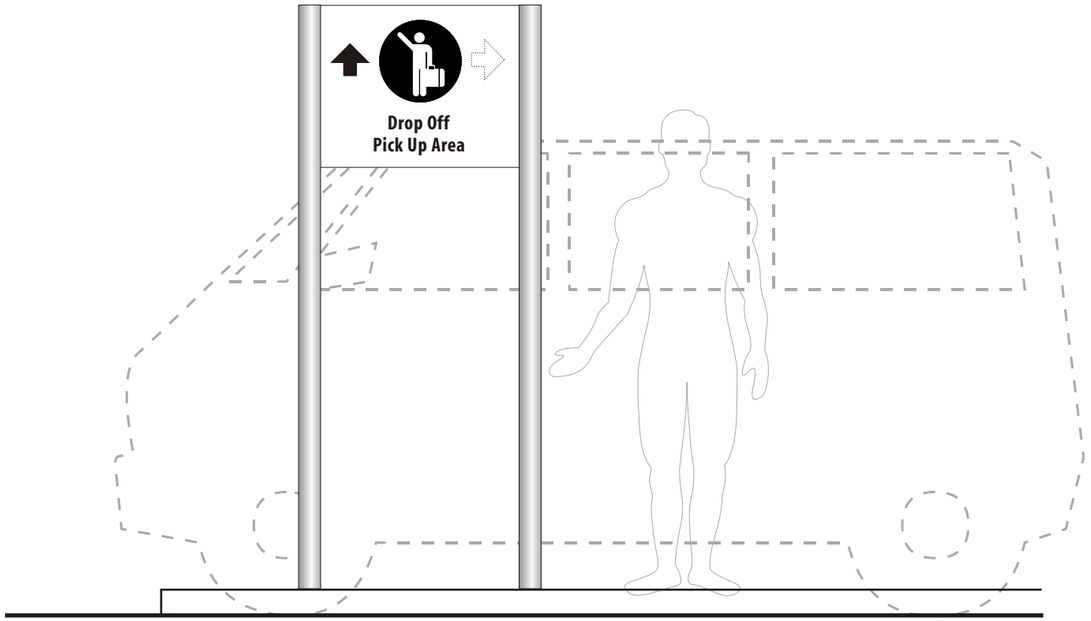


2-4-3
3'-0" x 8'-6"

Vehicular Directional Sign Type 2-4-4

This sign is used to direct motorists to drop-off and pick-up area at the station.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.



2-4-4
3'-0" x 8'-0"

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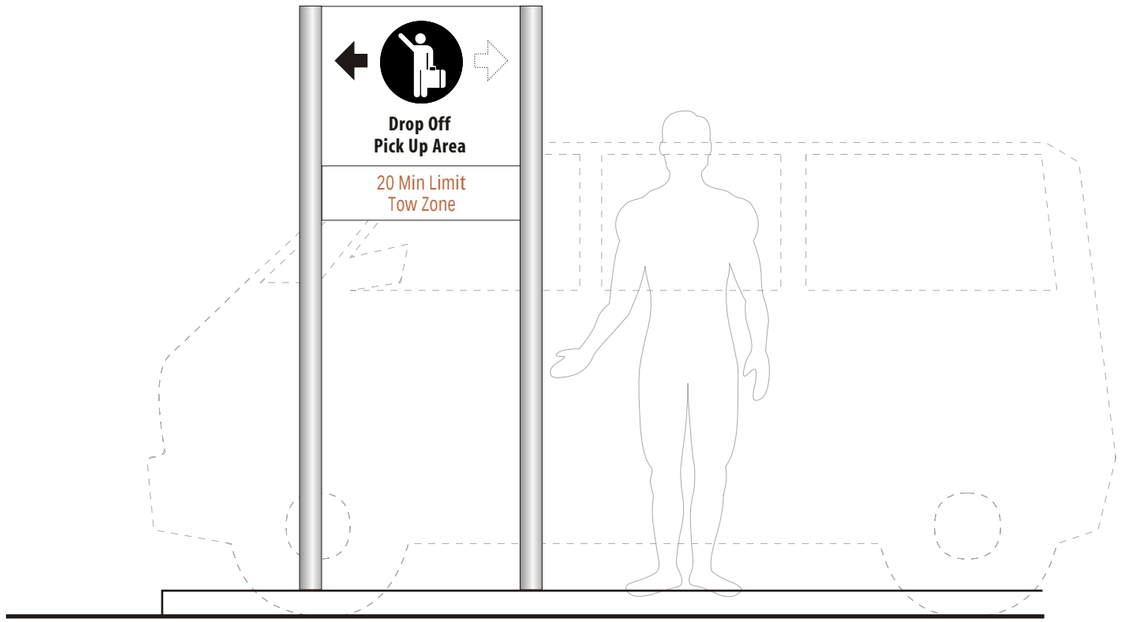
Vehicular Directional Sign Type 2-4-5

These signs are also used to define the drop off/pick up zone boundary and parking limitations.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.



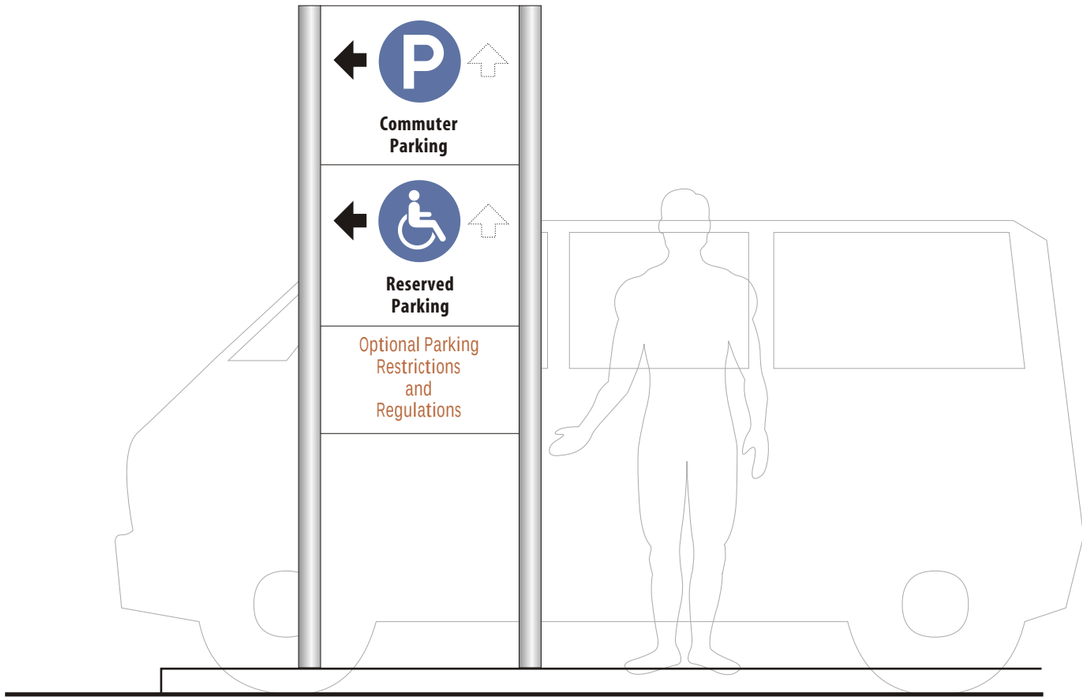
2-4-5
3'-0" x 8'-0"

2.4.5

Vehicular Directional Sign Type 2-4-6

This sign is used to direct motorists to parking areas at the station. These signs are also used to define parking limitations and restrictions when located at entrances to parking lots.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.



2-4-6
3'-0" x 8'-6"

2.4.6

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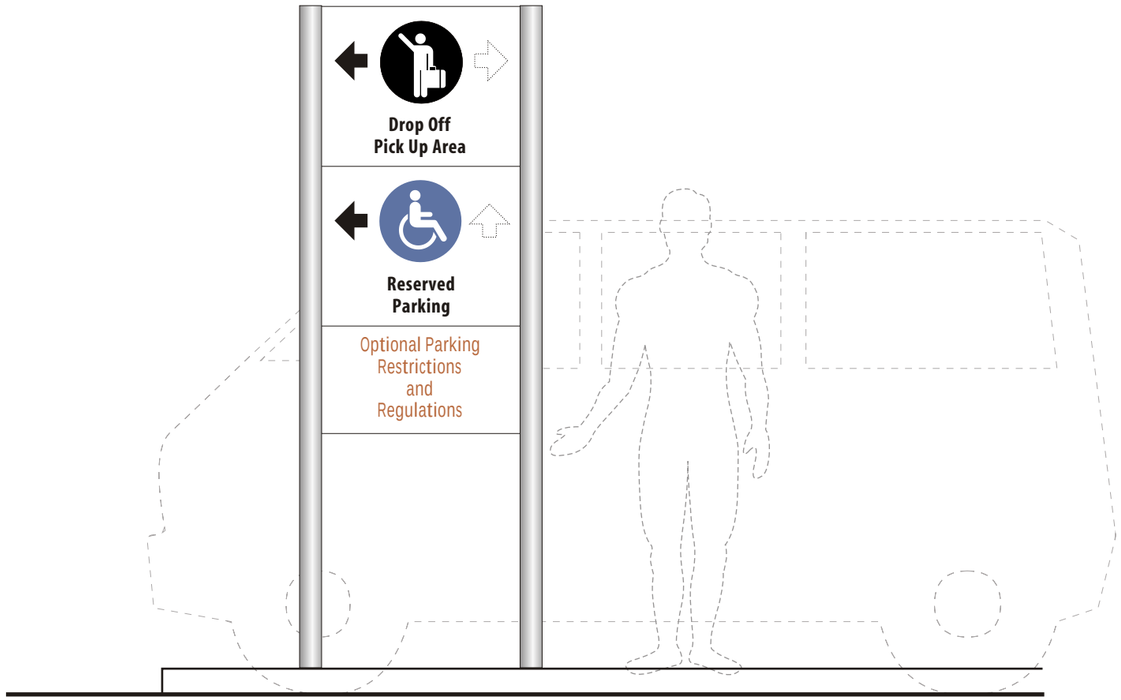
Vehicular Directional Sign Type 2-4-7

This sign is used to direct motorists to parking areas at the station. These signs are also used to define parking limitations and restrictions when located at entrances to parking lots.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.

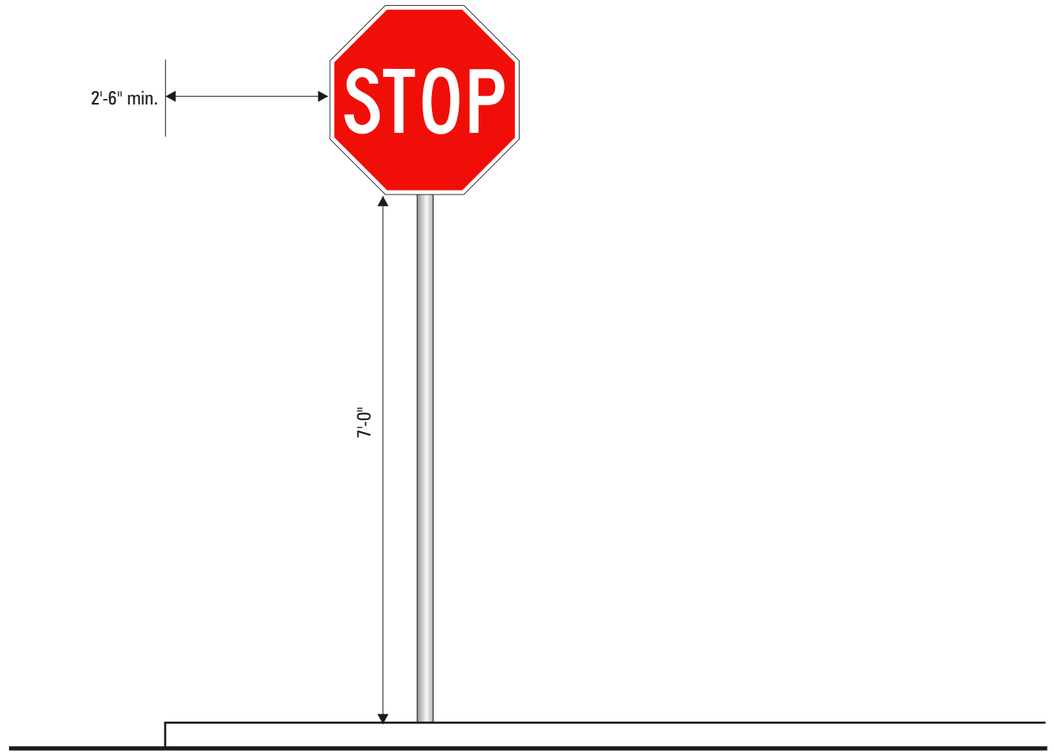


2-4-7
3'-0" x 8'-6"

Vehicular Regulatory Sign Types 2-5

These signs are used throughout the site to control traffic and shall conform to the Uniform Manual of Traffic Control Devices for size, color, content, and location based on specific site conditions.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics
Mounting: Double post, yielding breakaway, galv stl 7' min clr
Graphics: Applied reflective sht
Fasteners: Stainless stl, exposed



2-5-1
On site, Class A - 24" x 24"
Class B - 30" x 30"

2-5-1
Class A - 24" x 24"
Class B - 30" x 30"

2-5-5
Class A,B - 24" x 24"

2-5-9
Class A,B - 24" x 24"

2-5-13
Class A - 24" x 24"
Class B - 30" x 30"

2-5-17
Class A,B - 18" x 24"

2-5-2
Class A - 24" x 24"
Class B - 30" x 30"

2-5-6
Class A,B - 18" x 24"

2-5-10
Class A,B, - 18" x 24"

2-5-14
Class A - 24" x 24"
Class B - 30" x 30"

2-5-18
Class A,B - 18" x 24"

2-5-3
Class A,B - 30" x 30"

2-5-7
Class A - 18"x 24"
Class B - 24"x 30"

2-5-11
Class A - 18"x 24"
Class B - 24"x 30"

2-5-15
Class A - 24" x 24"
Class B - 30" x 30"

2-5-4
Class A,B - 30" x 30"

2-5-8
Class A,B - 24" x 30"

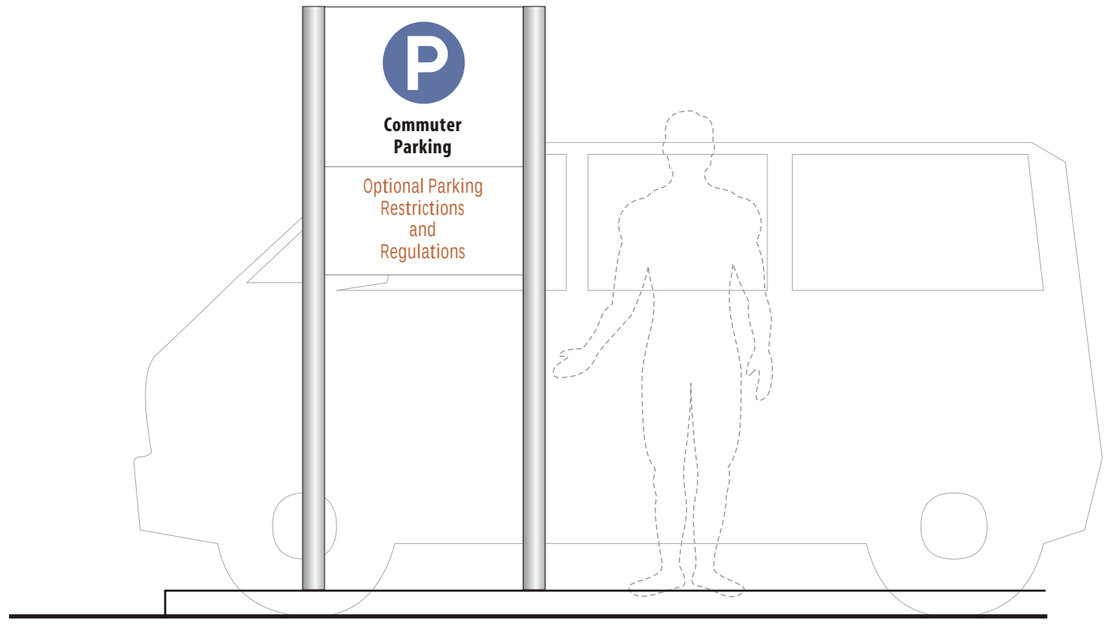
2-5-12
Class A - 24" x 24"
Class B - 30" x 30"

2-5-16
Class A,B - 18" x 24"

Vehicular Directional Sign Type 2-6

This sign is used to identify and display regulations and restrictions of parking lots. It shall be used at vehicular entrances where similar directional signs (2-4-1) are not needed.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective film, white w overlay color, black is non reflective vinyl or paint fin
Fasteners: Stainless stl.



2-6
3'-0" x 8'-0"

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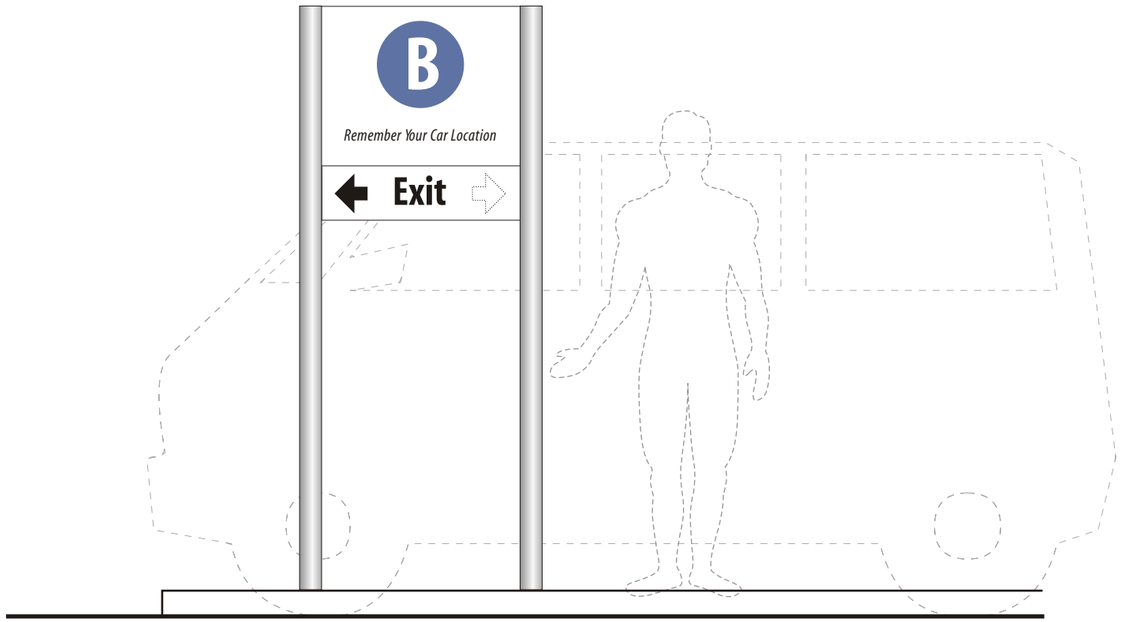
Sign Type 2-7

This sign is used to identify parking aisles in large parking lots where more than 10 aisles are present. Exit arrow (optional) shall point to the nearest exit from the site where exit may not be obvious. The sign is oriented perpendicular to the parking aisle and is double sided with similar information on both sides.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective sht
Fasteners: Stainless stl, exposed

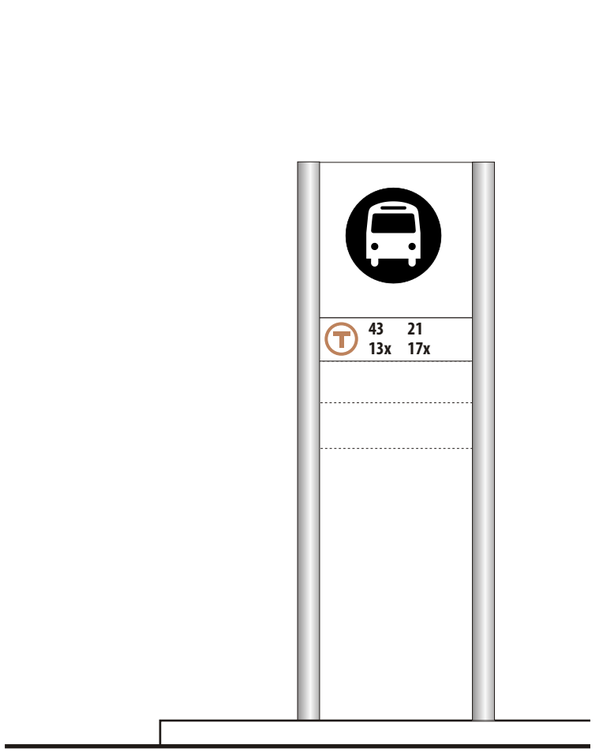


2-7
3'-0" x 8'-0"

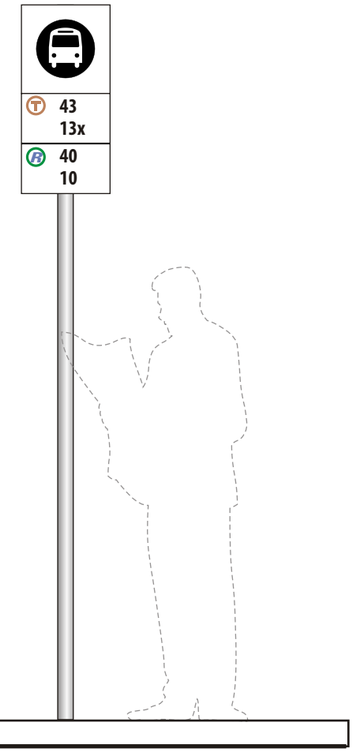
Parking Identification Sign Type 2-8

This sign is used to identify bus boarding areas at the station boarding area and should indicate the bus routes served, both metro and regional bus lines. Additional panels may be added as required including direction to near-by bus stops that may board on adjacent arterial streets. Where space is limited and legibility distances are minimal, use the smaller single-post option.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective sht.
Fasteners: Stainless stl. concealed



2-8-1
2'-6" x 7'-6"



2-8-2
1'-0" x 9'-0"

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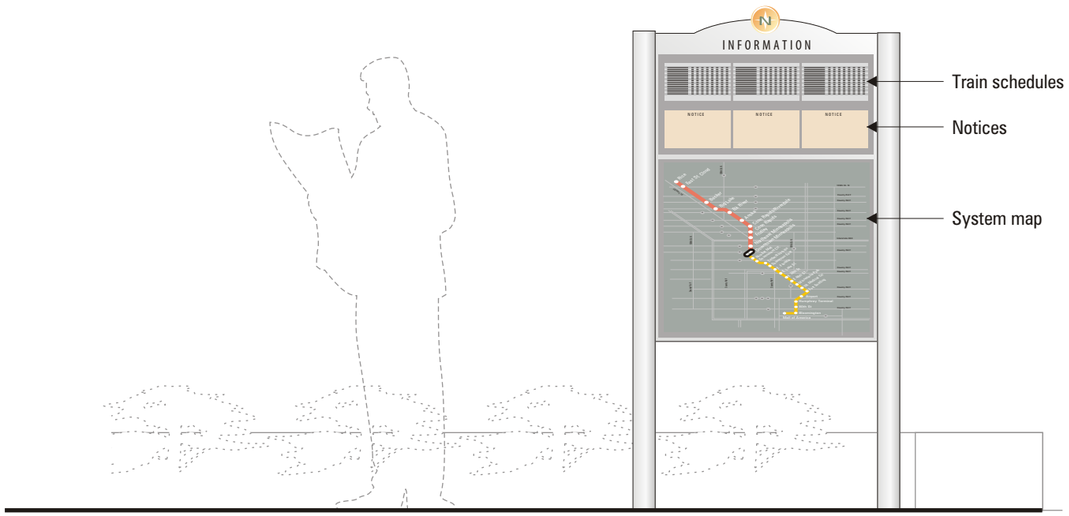
Station Name Sign Type 2-9-1

This sign is used to display general information, system map information and train schedules. It is located near shelters and positioned where possible in the planting areas adjacent to pedestrian walkways. The sign is double sided and displays both system map with connecting rail systems as well as connecting feeder bus routes to ea station in the system.

Fabrication Materials
Sign: Aluminum, 0.080 retainer w clr polycarbonate face, on 1/4" alum panel base, paint finish
Mounting: Double post w base plate, double-nut anchors to footings or slab
Graphics: Printed or silkscreened color-fast inserts
Fasteners: Stainless stl. concealed



2-9-1
6'-8" x 3'-6"

Map Detail - Full size

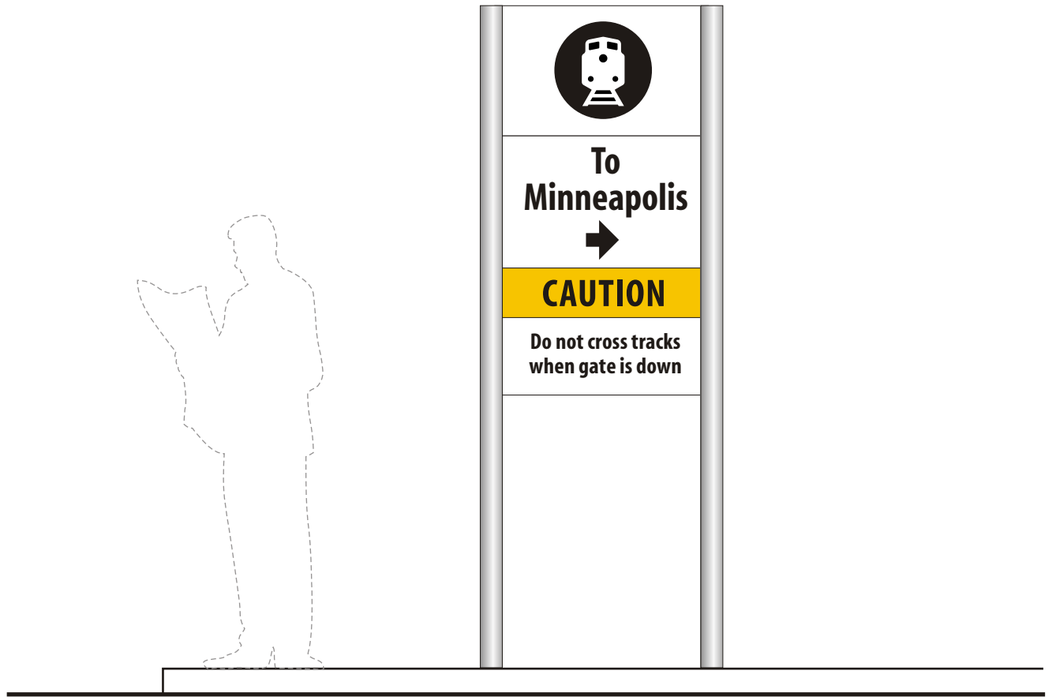
The system map should include the geographical configuration of transit line, color coded if needed, station stops, key arterial roads and expressways, and bus routes that feed the stations. Bus route numbers should be easily changeable by overlay and/or removable stickers. (Route numbers shown are for example only.)

2.9.1

Pedestrian Directional Sign Type 2-10

This is used to direct patrons to track crossing areas and identify the platform train destination or direction. Legibility is 300 feet for destination lettering to be easily read from most of the platform. zidentify secondary entrances. This option allows the name of the station as well as a specific parking lot identification where stations have more than one parking lot. Sign 2-10-2 is used where ticket purchase is not available on the opposite platform.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post w base plate, double-nut anchors to footings or slab
Graphics: Applied reflective sht.
Fasteners: Stainless stl.



2-10-1
3'-0" x 9'-6"

Pedestrian Directional Sign Type 2-10

Sign 2-10-2 is similar to 2-10-1 but is used where ticket purchase is not available on the opposite platform.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post w base plate, double-nut anchors to footings or slab
Graphics: Applied reflective sht.
Fasteners: Stainless stl.

2-10-2
3'-0" x 10'-9"

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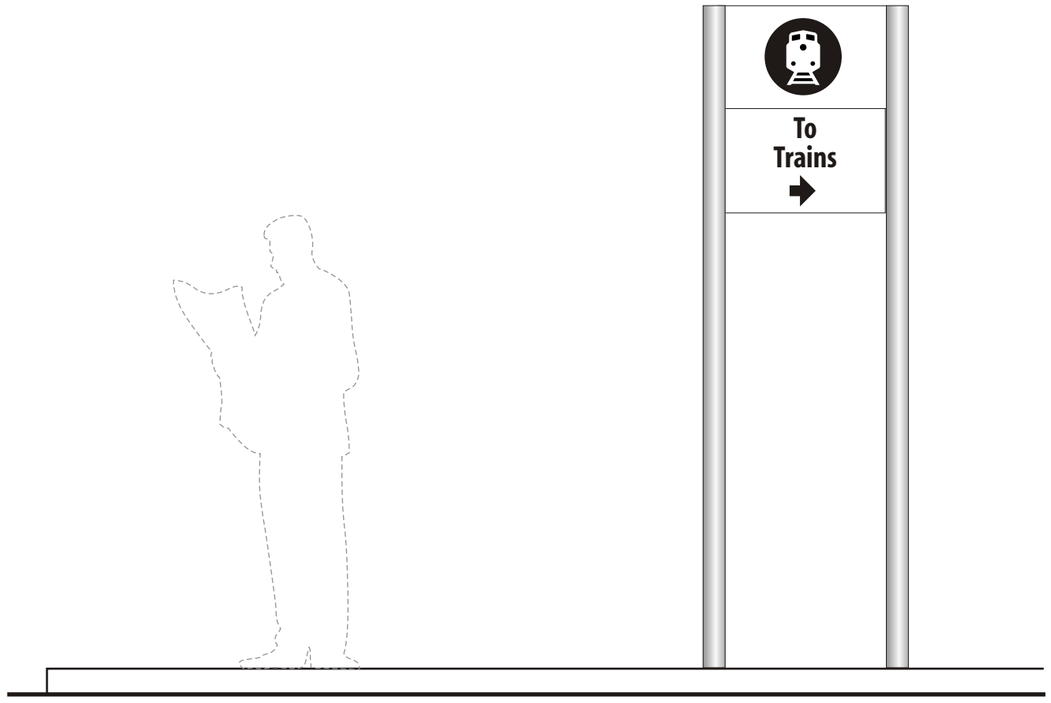
Pedestrian Directional Sign Type 2-10-3

This is used to direct patrons to the station platforms from nearby parking lots or other pedestrian or bikeways. When used near parking areas, care should be used in placement so as not to confuse vehicular traffic.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics.
Mounting: Double post, yielding breakaway, galv stl.
Graphics: Applied reflective sht.
Fasteners: Stainless stl.

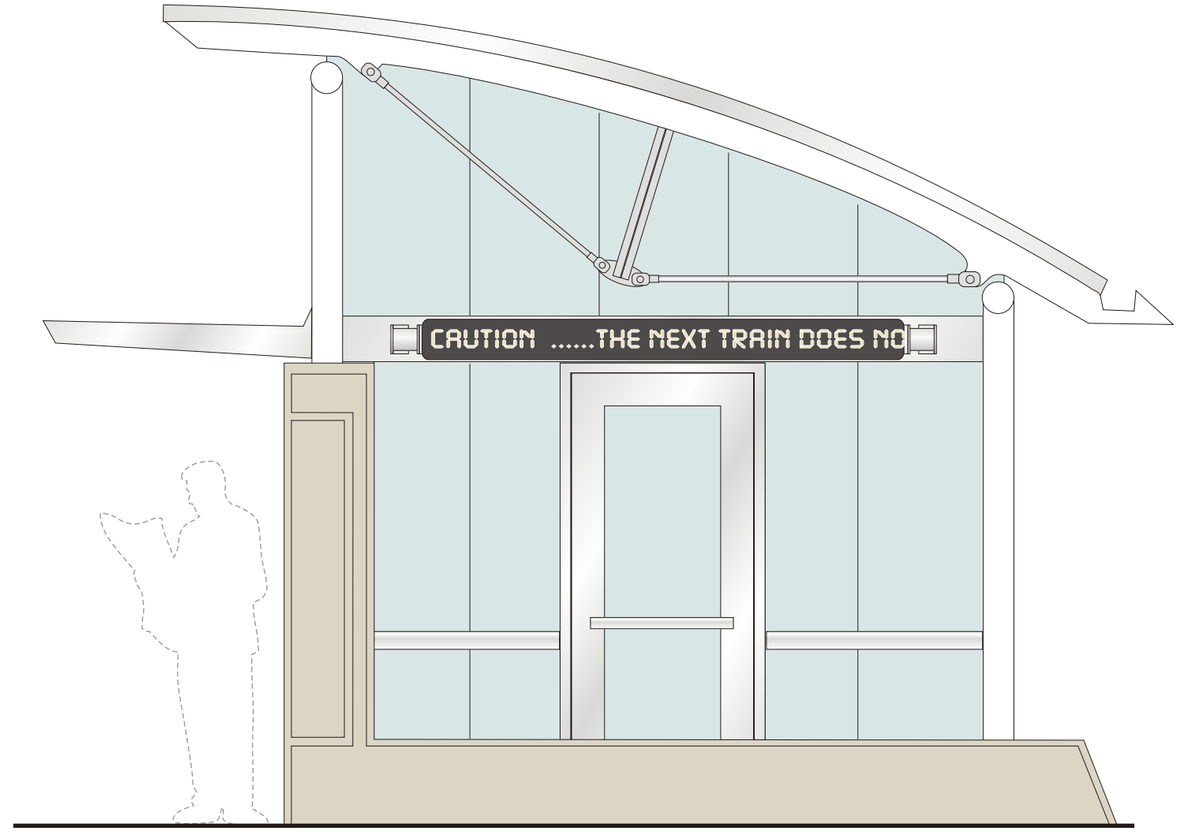


2-10-3
2'-6" x 9'-6"

Variable Message Display Sign Type 2-11

These signs are used to display changing information including arriving train information, next departure time, and safety information. If an audio public address system is used through the system, the LED message displays should present similar information for patrons with hearing disabilities.

Fabrication Materials
Sign: Single-faced, exterior grade light emitting diode display enclosure
Mounting: Pendant mount (adjustable) to structural beam
Graphics: 3" - 4" lettering, amber or white, traveling and or scrolling
Fasteners: Stainless stl, exposed
Power/Data: 2Amp, 120V, standard phone line for data (discrete per platform)



2-11
9"x 7'-0"

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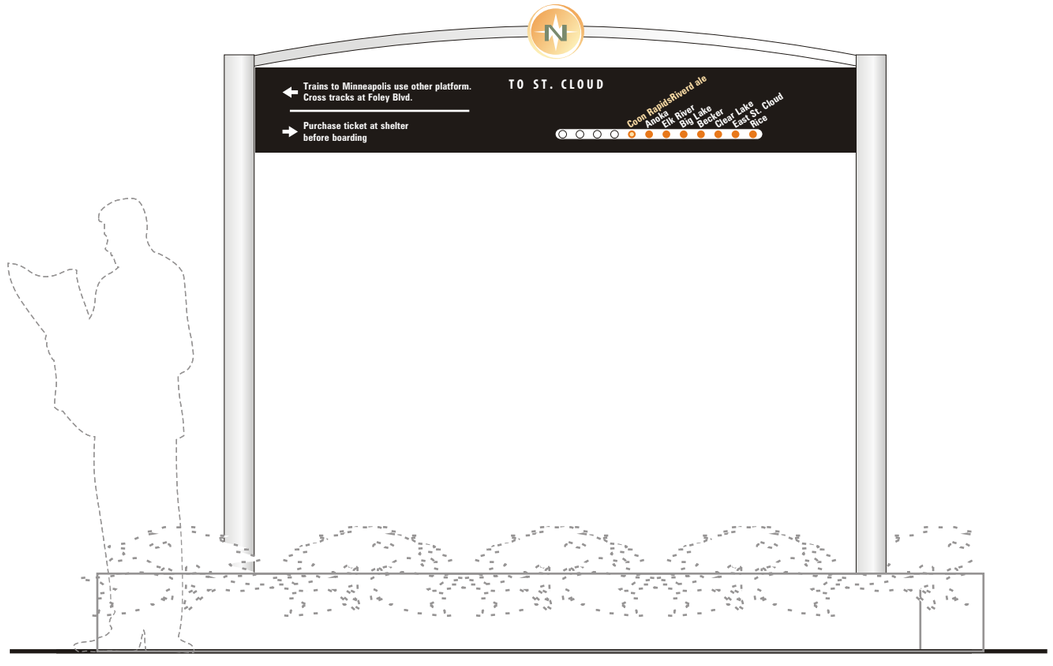
Commuter Line Map Sign Type 2-12-1

This sign is used to display a line map to show train destination and direction. It is located at a standard 85 foot interval along the platform and positioned in the planting areas adjacent to pedestrian walkways. The reverse side of the sign displays the station name, see sign type 2-12-2.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, on 1/4" alum panel base, with reflective graphics.
Mounting: Double post w base plate, double-nut anchors to footings or slab
Graphics: Applied reflective sht.- station names on painted background
Fasteners: Stainless stl. concealed

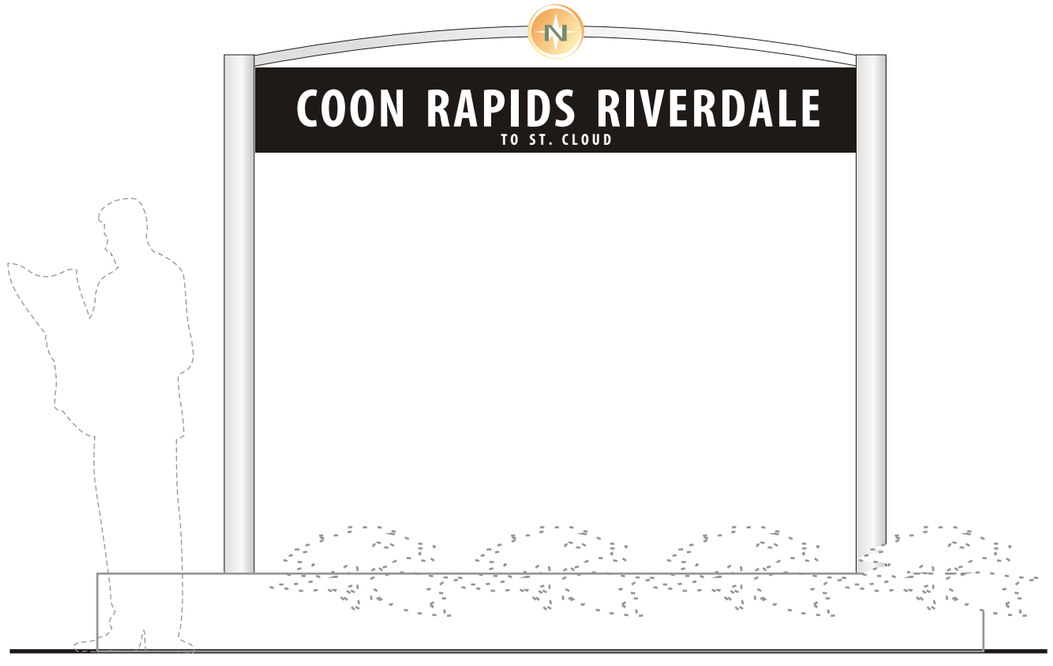


2-12-1
9'-0" x 9'-0"

Station Name Sign Type 2-12-2

This sign is used to identify the station to arriving passengers. It is located at a standard 85 foot interval along the platform and positioned in the planting areas adjacent to pedestrian walkways. The system logo (to be determined) may be substituted for a platform number sign, if required, on this side of the sign only. The reverse side of the sign displays a line map, see sign type 2-12-1.

Fabrication Materials
Sign: Aluminum, 0.080, 1" returns, paint finish, on 1/4" alum plate welded to posts.
Mounting: Double post w base plate, double-nut anchors to footings or slab
Graphics: Applied reflective sht.- station name on painted background
Fasteners: Stainless stl. concealed



2-12-2
9'-0" x 9'-0"

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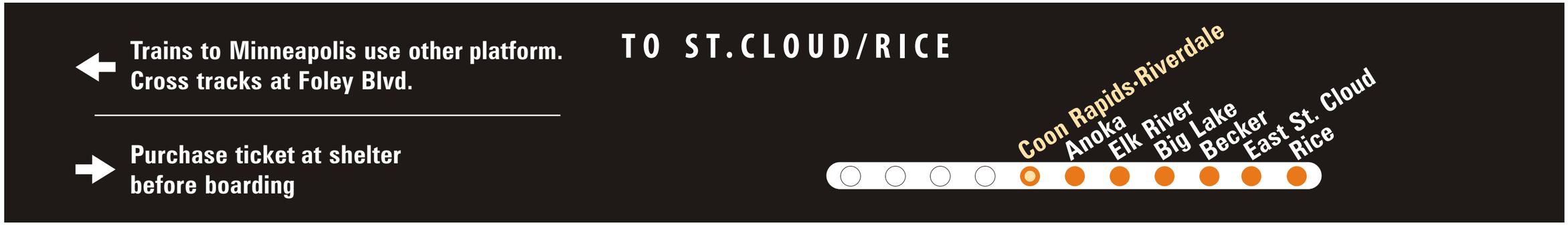
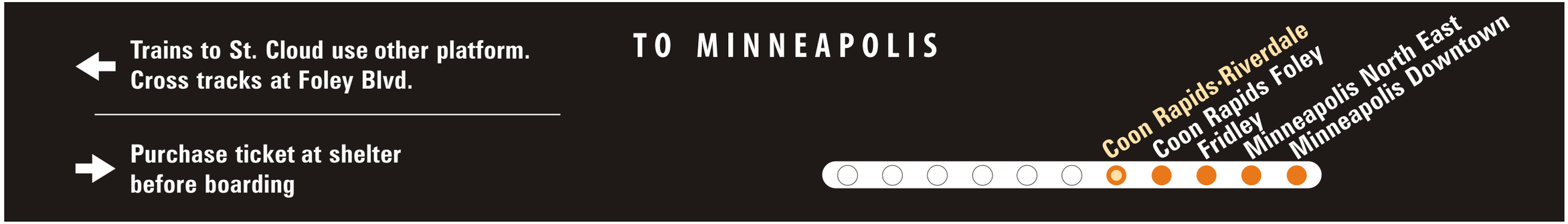
Commuter Line Map Sign Type 2-12-1 - Detail

Directional messages will vary from station to station depending on platform boarding conditions.

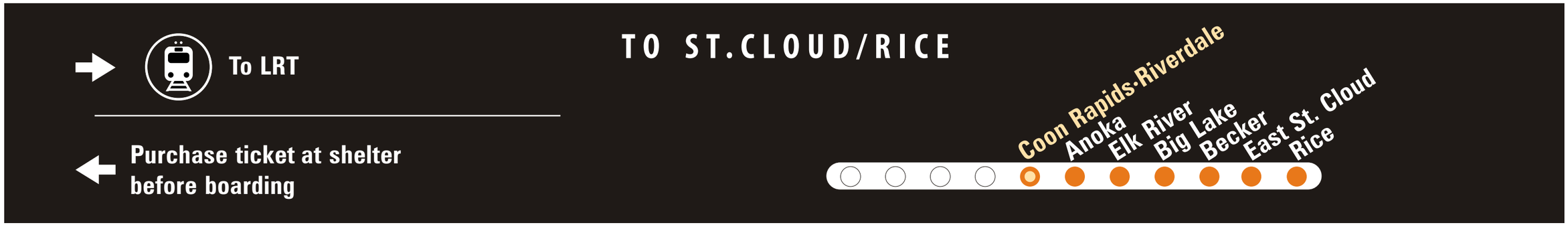




2.12.1a

Sign TypeS 2-12-1 and 2-12-2 - Detail at transfer stations

Directional messages to connecting transit modes should be displayed on both sides of 2-12 signs as shown here for the Minneapolis downtown station.



2-12-1 (graphic panel)

2-12-2 (graphic panel)

2.12.1b

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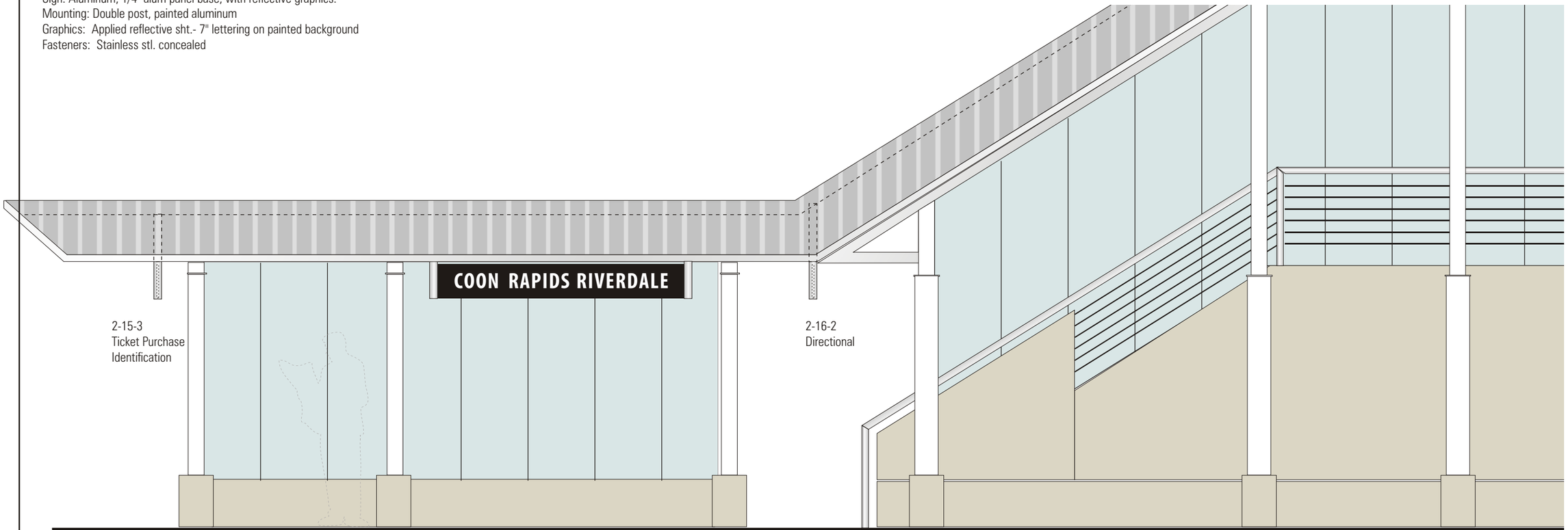
Station Name Sign Type 2-12-3
at Elevator/Stair Structures

These signs identify the station where the platform segment includes an elevator/stair structure. The reverse side of the sign displays a line map sign type, see 2-12-1. The signs are pendant mounted to the canopy structural beams with transverse beams of similar size as needed for support. The system map is single faced and may be free-standing or wall mounted, see 2-9. A similar placement is required on the opposite side of the structure (bus side) to display neighborhood map and local bus routes if desired at the station.

Fabrication Materials, 2-12-3
Sign: Aluminum, 1/4" alum panel base, with reflective graphics.
Mounting: Double post, painted aluminum
Graphics: Applied reflective sht.- 7" lettering on painted background
Fasteners: Stainless stl. concealed



2-12-3 Station Name/Line Map
14" (plus pendant ht.) x 7'-6"

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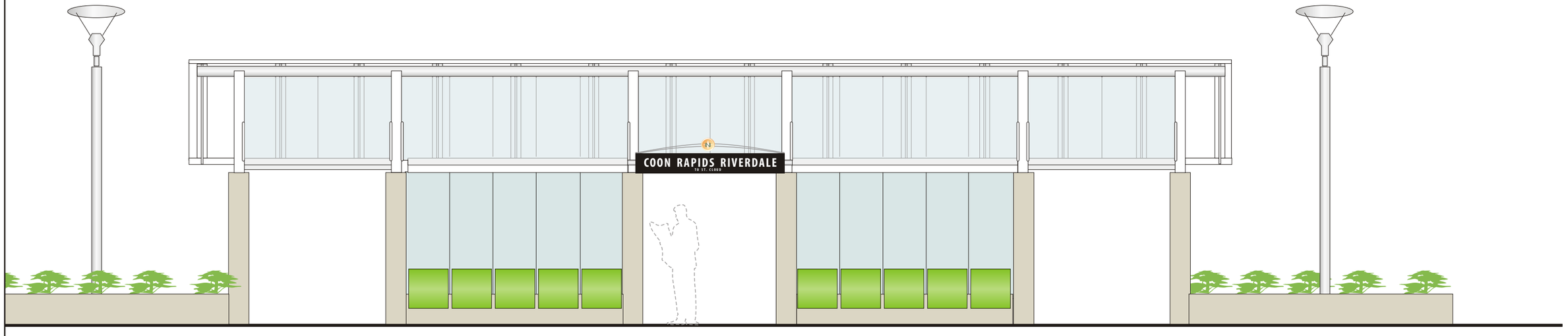
Date: 06/01/01
Minnesota Department of Transportation
SP - 9901 - 01

Station Name Sign Type 2-12-4a at Shelters

These signs are used to identify the station at the shelter segment. The reverse side of the sign displays a line map sign type, see 2-12-1. The signs are pendant mounted between the canopy/sunshades of the shelter. This placement is ideal as it is visible to both upper and lower level train passengers.

Fabrication Materials:
Sign: Aluminum, 1/4" alum panel base, with reflective graphics.
Mounting: Pendant mounted to canopy arms.
Graphics: Applied reflective sht.- 7" lettering on painted background
Fasteners: Stainless stl. concealed



2.12.4a

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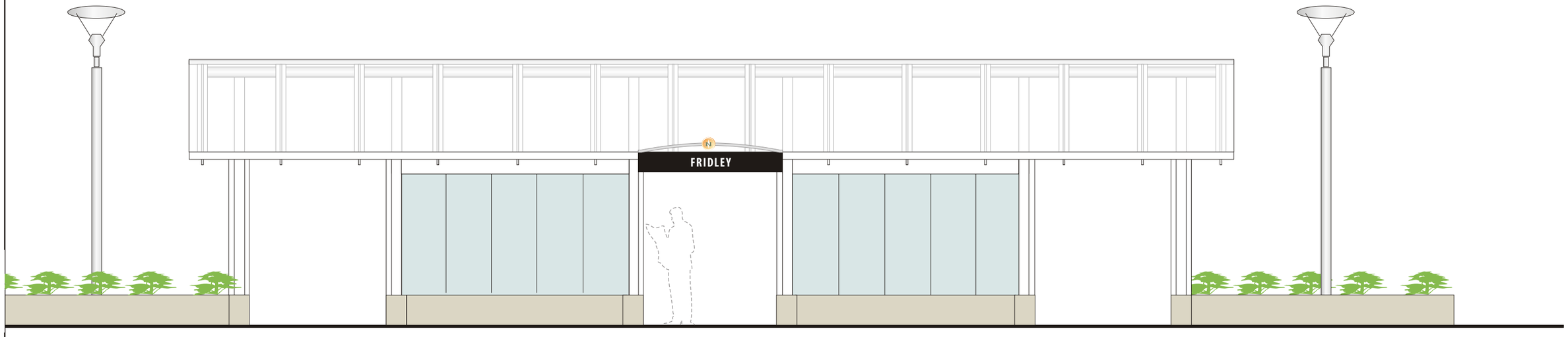
Station Name Sign Type 2-12-4b at Center Platform Shelters

These signs are used to identify the station at the shelter segment of center platform stations (Fridley), where station name signs are required on both sides of the shelter. The signs are mounted to roof structural elements and are single faced, without line maps on the reverse side. End destinations are omitted since the platform serves both directions.

Fabrication Materials:
Sign: Aluminum, 1/4" alum panel base, with reflective graphics.
Mounting: Ceiling mounted to canopy arms.
Graphics: Applied reflective sht.- 7" lettering on painted background
Fasteners: Stainless stl. concealed



2.12.4b

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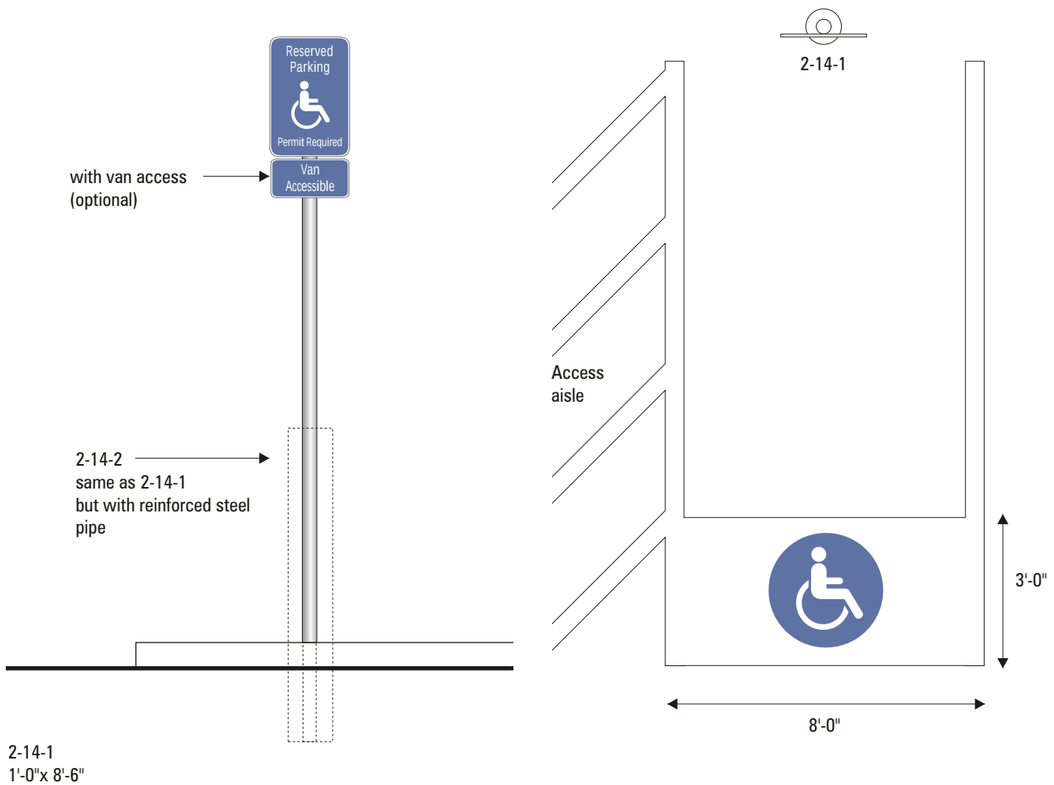
Accessible Parking Identification Sign Type 2-14

These signs are used to identify reserved parking areas for the disabled patron. They may be double faced as needed and located between parking stalls. Each stall shall also display the handicap symbol painted white on a blue field.
Where locations are unprotected by a curb, install the sign post in a 3' high concrete reinforced steel pipe - 8" o.d. Van accessible sign is used where access aisle is 96" wide.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics
Mounting: Double post, yielding breakaway, galv stl 7' min clr
Graphics: Applied reflective sht
Fasteners: Stainless stl, exposed
Pavement symbol: Painted (spray screen) non-reflective

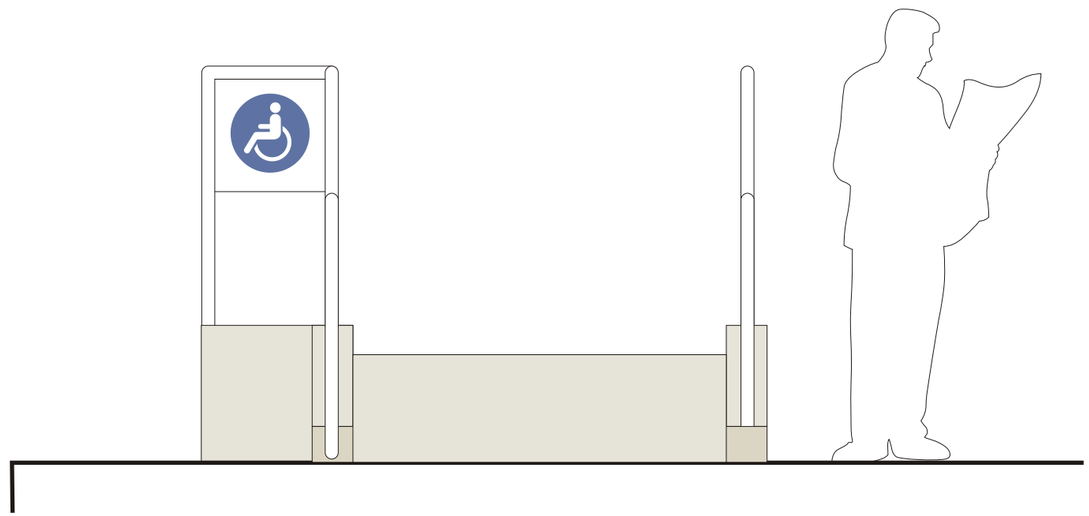


2.14.1

Accessible Ramp Identification Sign Type 2-14-3

These signs are used to identify the boarding ramp at platforms. areas for the disabled patron. They may be double faced with boarding information on the reverse side.

Fabrication Materials
Sign: Aluminum, 0.090
Mounting: Direct to existing guardrail
Graphics: Applied reflective sht.- all colors
Fasteners: Stainless stl, exposed

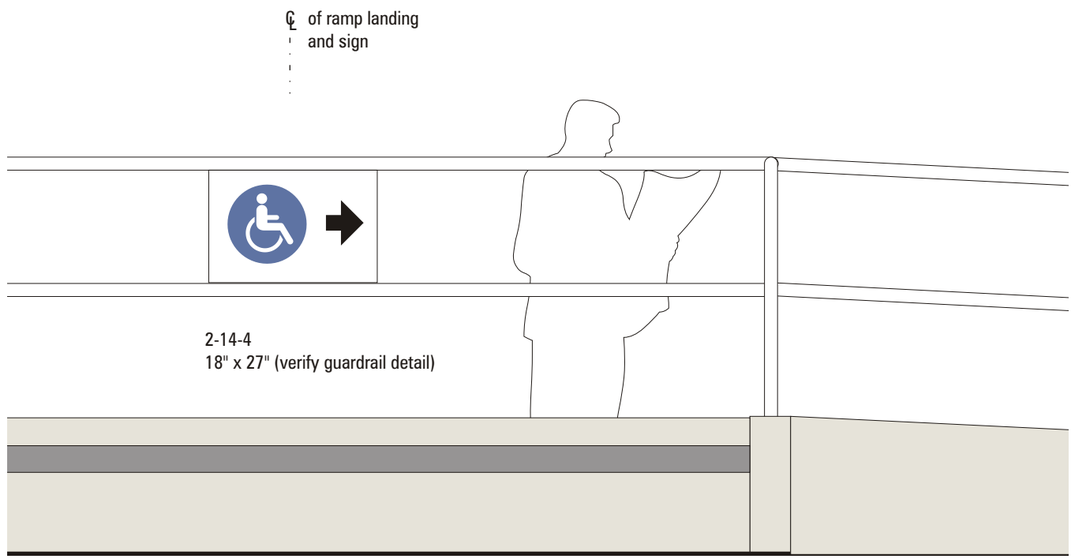


2.14.3

Accessible Ramp Directional Sign Type 2-14-4

These signs are used to direct disabled patrons to the ramp as they exit the train.
The sign is double faced with similar direction on the reverse side.

Fabrication Materials
Sign: Aluminum, 0.090
Mounting: Direct to existing guardrail
Graphics: Applied reflective sht.- all colors
Fasteners: Stainless stl, exposed

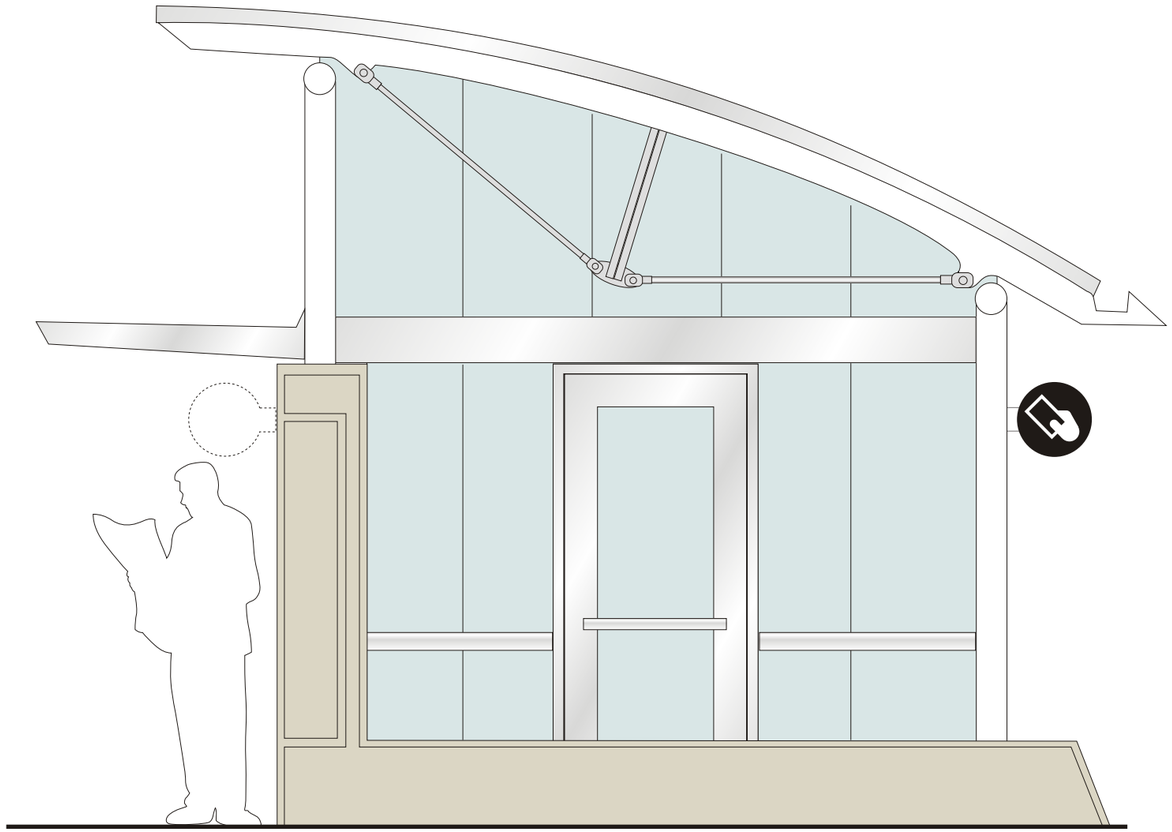


2-14-4
18" x 27" (verify guardrail detail)

Ticket Purchase Area Identification Sign Type 2-15-1

These signs identify the specific locations of ticket vending equipment. The signs are double-faced to be easily visible from any direction by approaching patrons. See 2-15-2 for accompanying message display. Signs may be mounted to both sides of the shelter where needed.

Fabrication Materials
Sign: Aluminum, 0.080 paint finish, with reflective graphics
Mounting: Pendant, aluminum paint to match structure painted metal
Graphics: Applied reflective sht
Fasteners: Stainless stl, exposed



2-15-1
15" dia.

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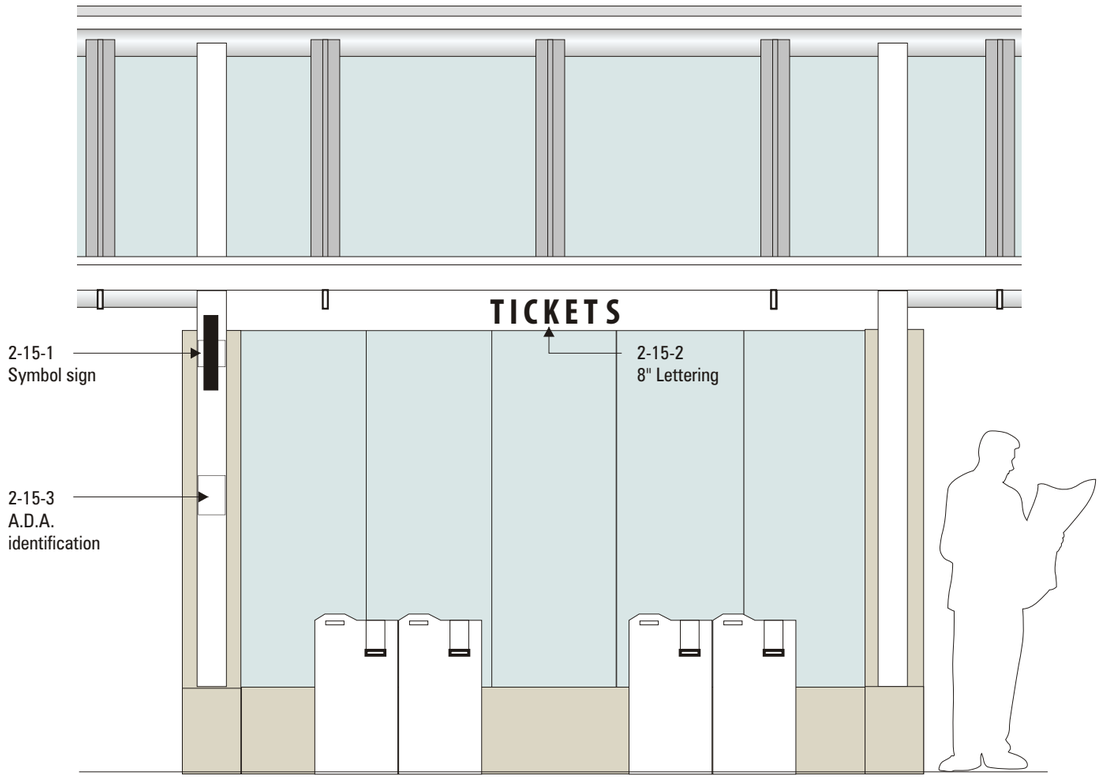
Ticket Purchase Area Identification Sign Type 2-15-2

These signs are identify the specific locations of ticket vending equipment. The signs are applied to the shelter structural beam to be easily visible by approaching patrons. See 2-15-1 for accompanying symbol display.

Fabrication Materials
Graphics: Applied reflective film - white or black to achieve maximum contrast to painted beam

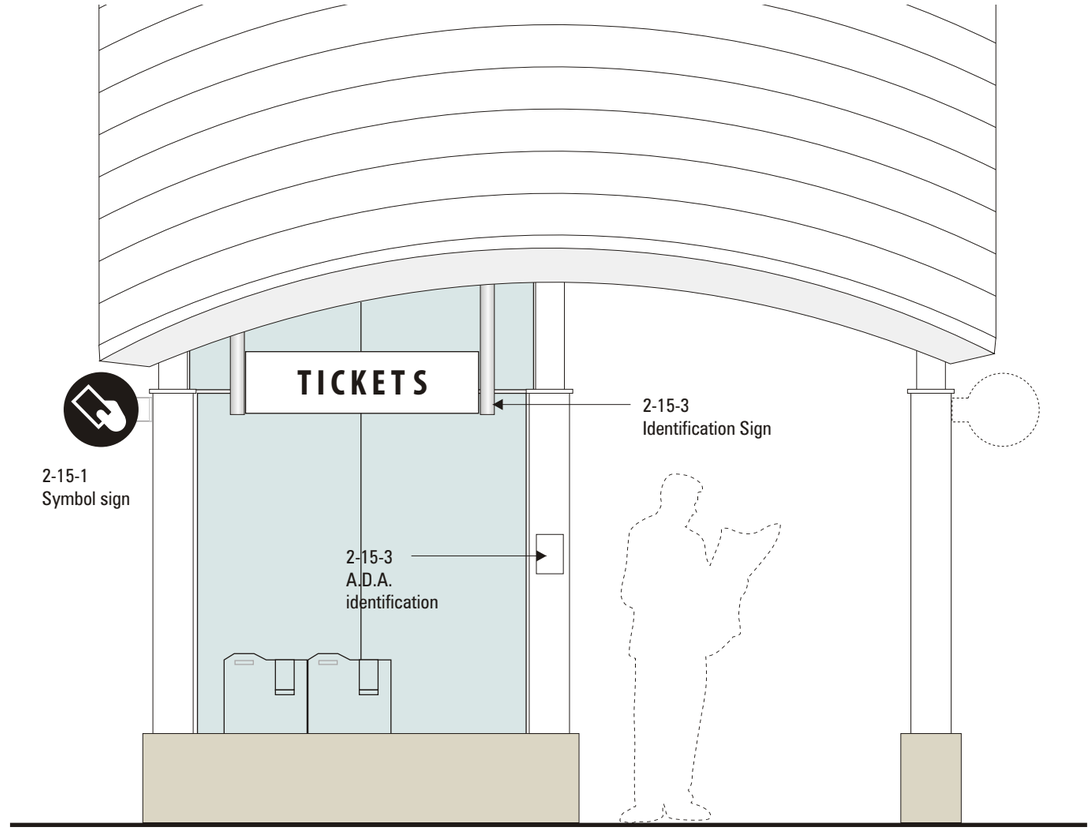


2.15.2

Ticket Purchase Identification Sign Type 2-15-3
for Overpass Structures

These signs identify the specific locations of ticket vending equipment. The signs are double-faced to be easily visible from any direction by approaching patrons. Symbol signs 2-15-1 may be mounted to both sides of the shelter where needed.

Fabrication Materials
Sign: Aluminum, 1/4" alum panel base, with reflective graphics.
Mounting: Double post, painted aluminum
Graphics: Applied reflective sht.- 7" lettering on painted background
Fasteners: Stainless stl. concealed

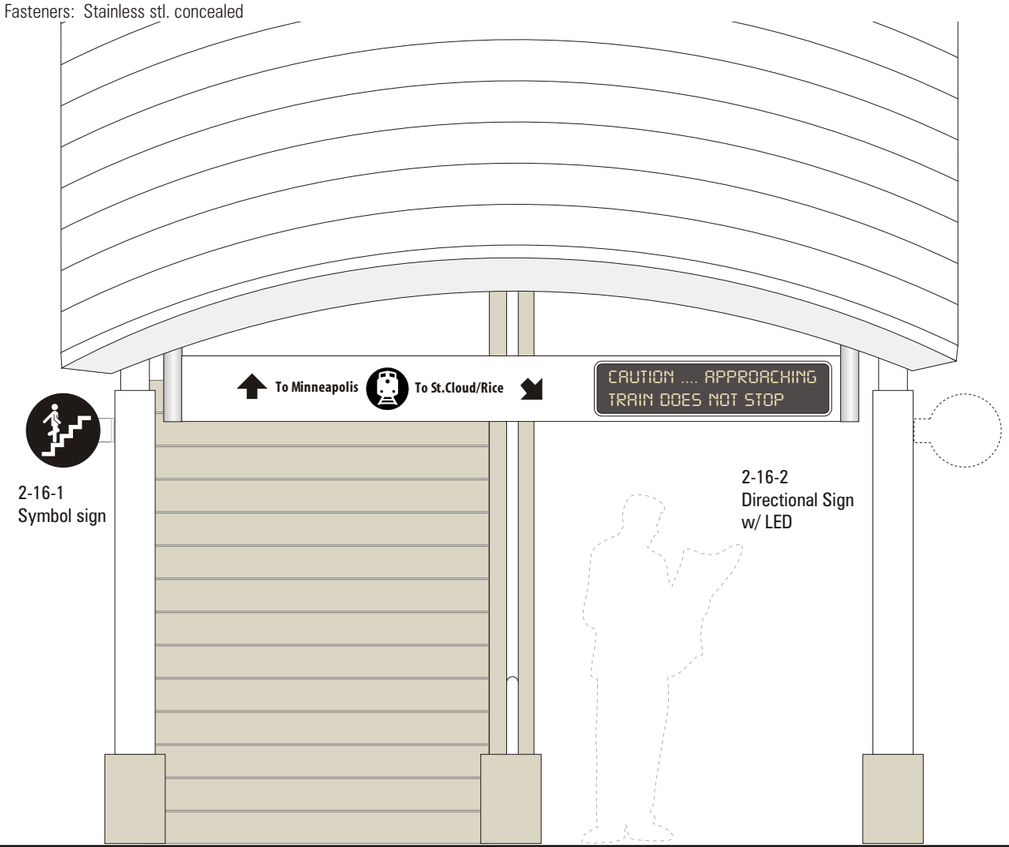


2.15.3

Identification/Directional Signs at Stair/Elevator Enclosures
Sign Type 2-16-1 & 2-16-2 - Stairways

These signs identify the stair access. The symbol signs for stair, 2-16-1 are double-faced to be easily visible from any direction by approaching patrons. 2-16-1 symbol signs may be mounted to both sides of the shelter where needed. The directional signs, 2-16-2 are double-faced and display train destination or exit information (opposite platform) for patrons approaching the stair, and similar information on the reverse side as appropriate to the platform. LED signs are added to the directional sign front and back for viewing variable messages unique to the platform conditions.

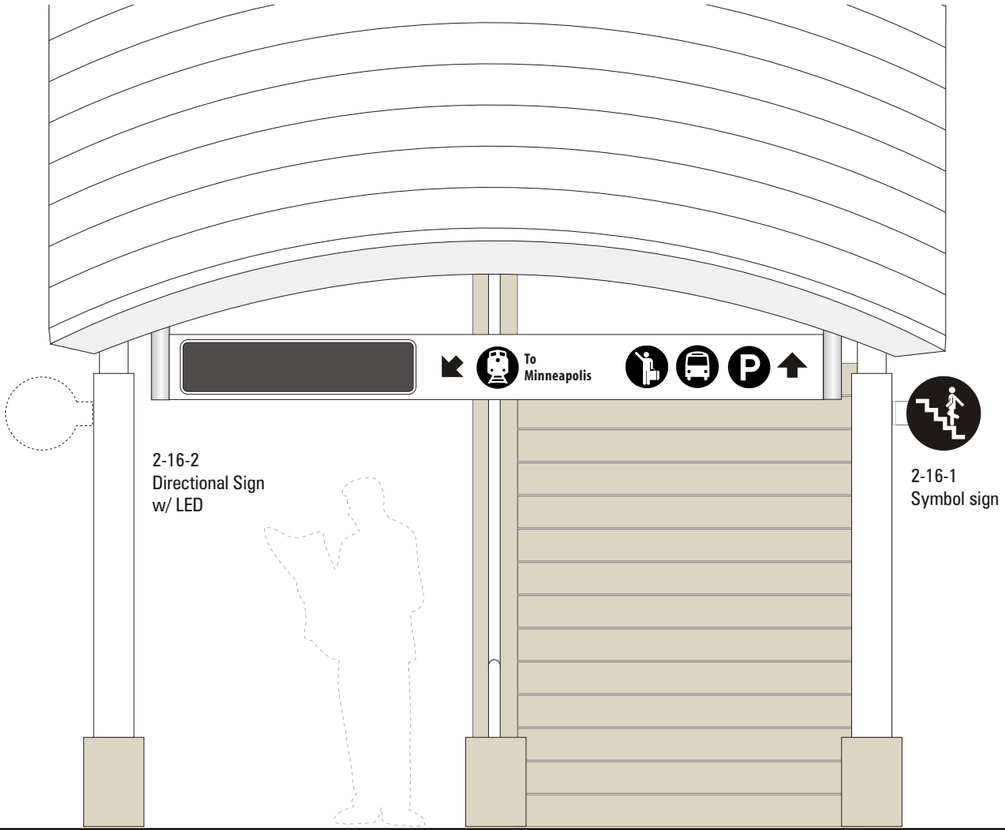
Fabrication Materials
Sign: Aluminum, 1/4" alum w internal frame, w LED cabinet ea side
Mounting: Double post pendant, painted aluminum
Graphics: Applied reflective sht.
Fasteners: Stainless stl. concealed



2.16.1

Identification/Directional Signs at Stair/Elevator Enclosures
Sign Type 2-16-1 & 2-16-2 - Stairways

Opposite platform signs display boarding and exiting information and direction.

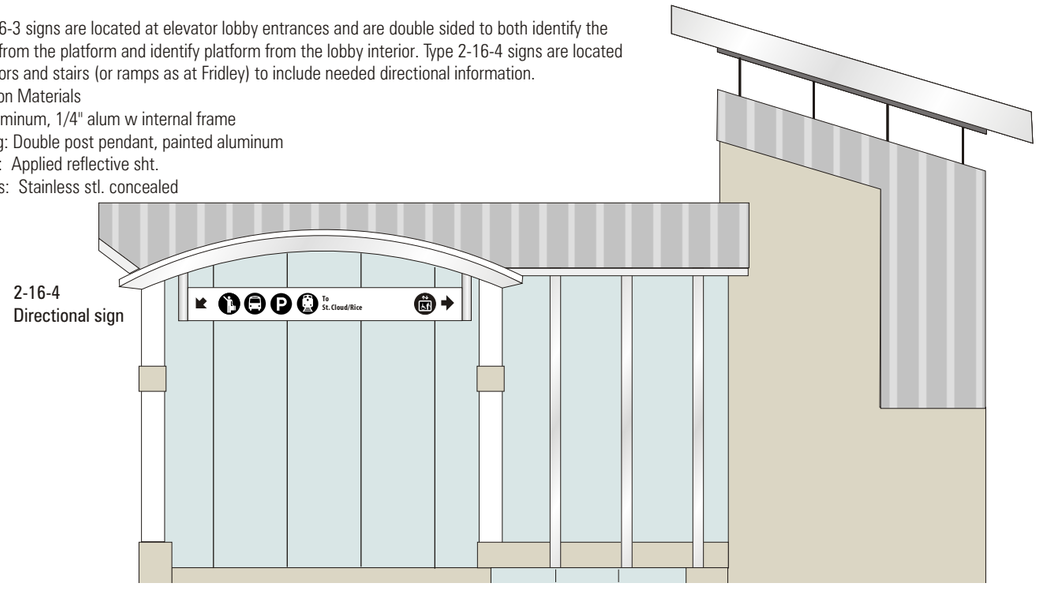


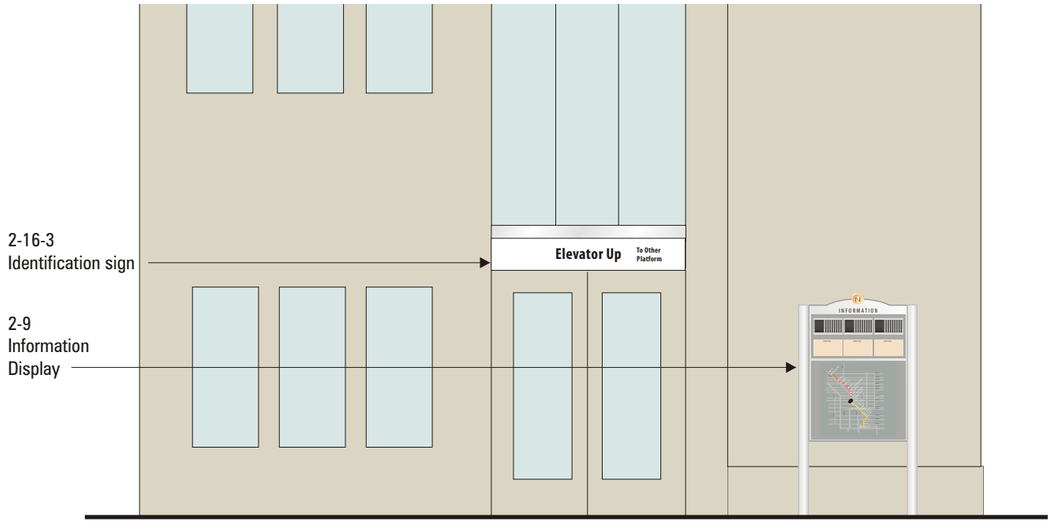
2.16.2

Identification/Directional Signs at Elevator Lobby
and Overpass/Tunnel Corridor
Sign Types 2-16-3 and 2-16-4

Type 2-16-3 signs are located at elevator lobby entrances and are double sided to both identify the elevator from the platform and identify platform from the lobby interior. Type 2-16-4 signs are located at elevators and stairs (or ramps as at Fridley) to include needed directional information.

Fabrication Materials
Sign: Aluminum, 1/4" alum w internal frame
Mounting: Double post pendant, painted aluminum
Graphics: Applied reflective sht.
Fasteners: Stainless stl. concealed

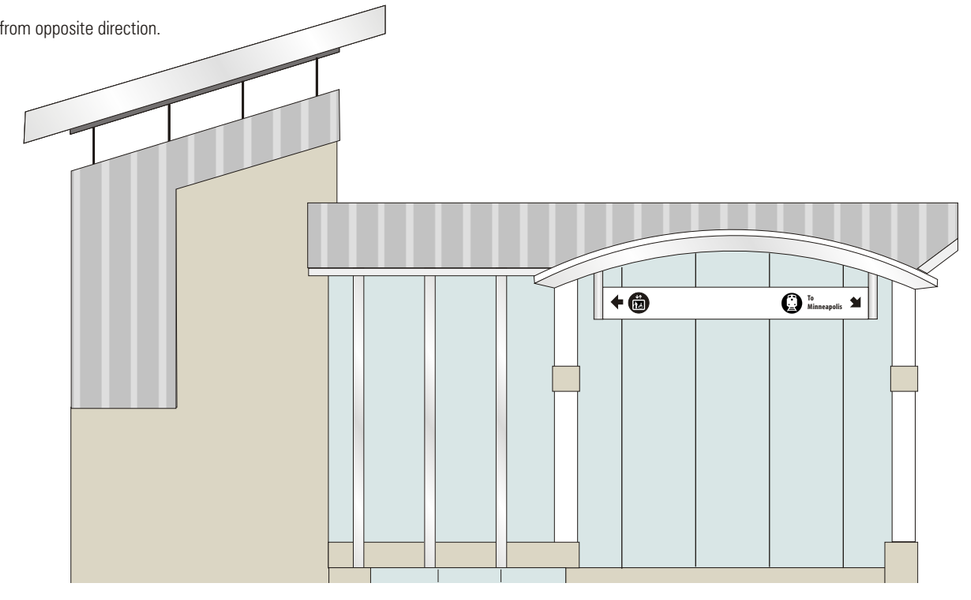


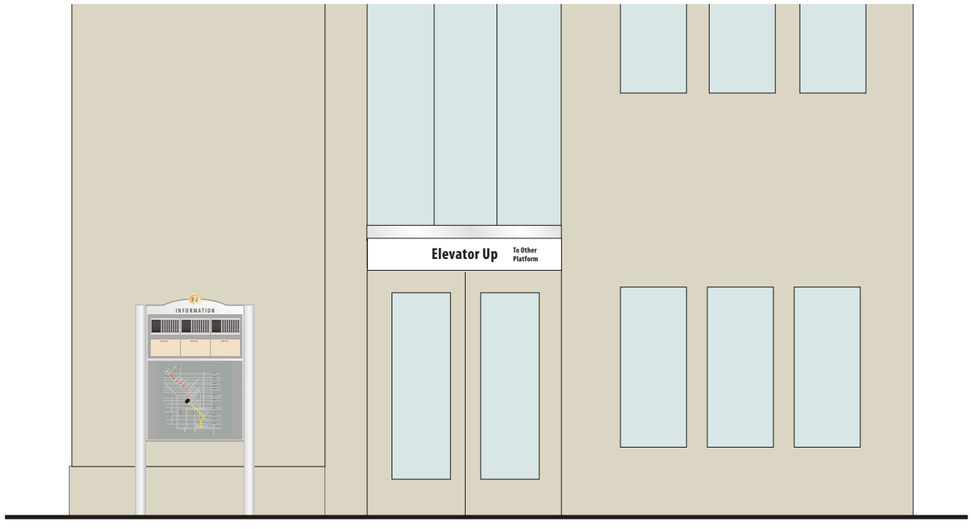


2.16.3

Identification/Directional Signs at Elevator Lobby
and Overpass/Tunnel Corridor
Sign Types 2-16-3 and 2-16-4

Signs viewed from opposite direction.





2.16.4

Typical layouts

Elevator Up **To Other Platform**

Over elevator lobby door exterior

Elevator Up to **Hiawatha LRT** **5th St N Exit**

Over elevator lobby door exterior and elevator door interior

Out to

Over elevator lobby door interior - exiting patrons

To St. Cloud/Rice

TRAIN ARRIVING ....
PLEASE PROCEED TO 8

Over elevator lobby door interior - boarding patrons platform level

Elevator Up to

Over elevator door - exiting patrons platform level

Elevator Up to **To Minneapolis**

Over elevator door - ground level

Elevator down to

Over elevator door - top level

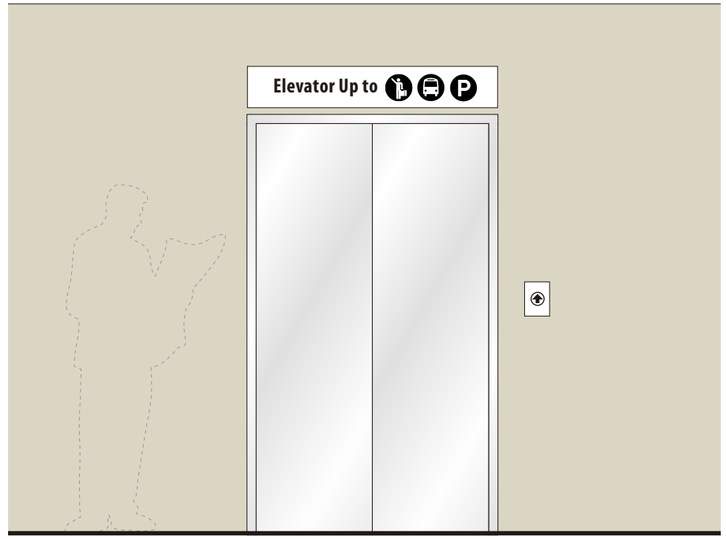
Elevator up to Trains

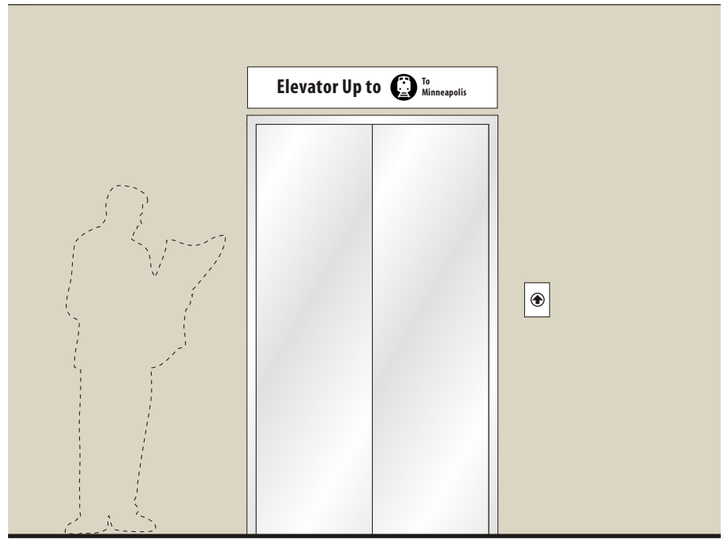
Over elevator door - tunnel level center platforms

Elevator down to **To Minneapolis**

Over elevator door - top level side platforms

Typical location over elevator doors.





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Preliminary Engineering
Graphics Standards and Directives

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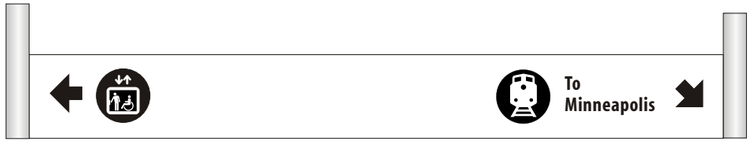
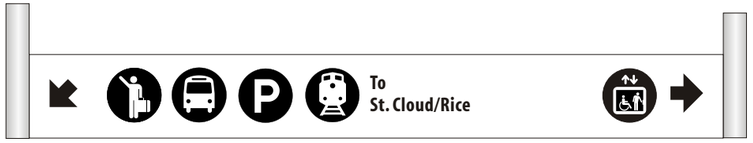
Signs at Overpass and Tunnel Corridors
Sign Type 2-16-4

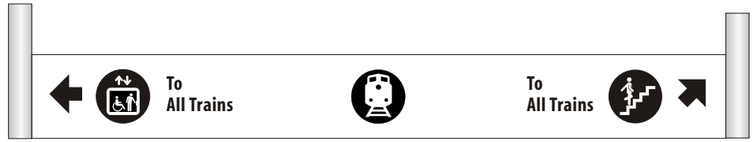
Typical Layouts



At stair/elevator - top level



At stair/elevator - top level

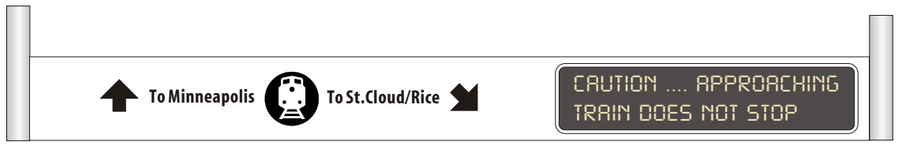


At stair/elevator - tunnel level

At stair/ramp - tunnel level

Signs at Stair Enclosures
Sign Type 2-16-4

Typical Layouts

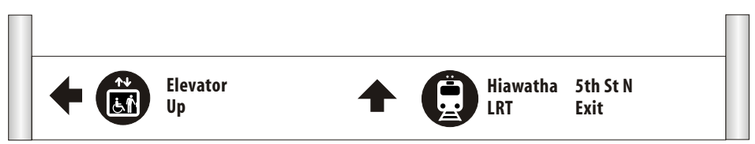


At stair - platform level

At stair - platform level

At stair - platform level

At stair - platform level



At stair/escalator - bottom level

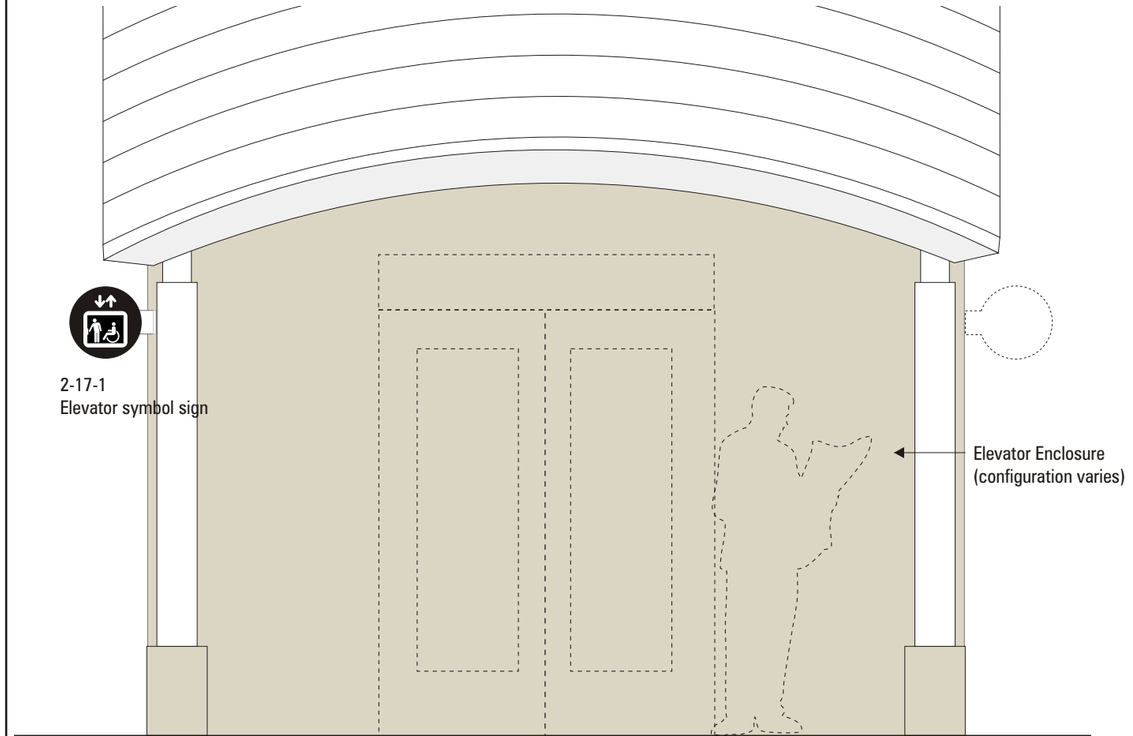
At stair/escalator - top level

2.16.7

Identification Signs at Elevator Enclosures
Sign Type 2-17-1

These signs identify the elevators/disabled access. The symbol signs 2-17-1 are double-faced to be easily visible from any direction by approaching patrons. 2-17-1 symbol signs may be mounted to both sides of the shelter where needed. For elevator lobby identification at lobby entrance, see sign type 2-16-3.

Fabrication Materials (also typical for 2-16-1 signs)
Sign: Aluminum, 1/4" alum double panel w pendant insert
Mounting: Pendant mount to column or enclosure wall, painted aluminum
Graphics: Applied reflective sht.
Fasteners: Stainless stl. exposed



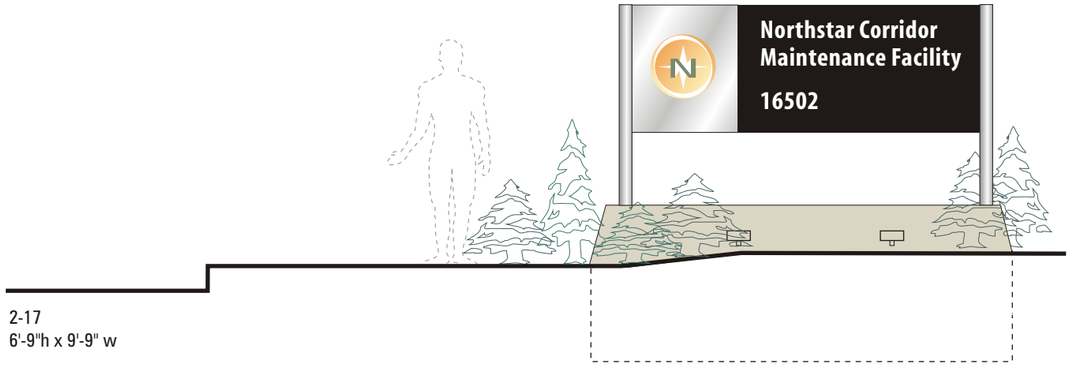
2.17.1

Site Identification - Maintenance Facility Sign Type 2-18

This sign is used to identify maintenance facilities or similar buildings throughout the system. The sign displays the system logo, system name, the facility name and street address.

Fabrication and Mounting
Sign housing: Aluminum, 0.125, paint finish
Structure: Aluminum
Fasteners: Stainless stl., concealed
Graphics: Vinyl, reflective
Illumination: External color corrected 150 W M.H. uplights, 2 per side, 20A-120V req'd
Setback from roadway: 35'-0"

Final graphic elements subject to development and approval of a symbol for the transit system.



2-17
6'-9"h x 9'-9" w

2.18