

SR 28 National Scenic Byway Corridor Signage Master Plan

June 30, 2016



WOOD ROGERS
DEVELOPING INNOVATIVE DESIGN SOLUTIONS
5440 Reno Corporate Drive Tel: 775.823.4068
Reno, NV 89511 Fax: 775.823.4066

ACKNOWLEDGEMENTS

Lead Agency

Washoe County

Physical Address

1001 E. 9th Street
Building A, 2nd Floor

Mailing Address

P.O. Box 11130
Reno, NV 89520

Phone

(775) 823-6500



ACRONYMS

AASHTOAmerican Association of State Highway and Transportation Officials
ADAAmericans with Disabilities Act of 1990
CMYKCyan, Magenta, Yellow and Key (for print purposes)
IVGIDIncline Village General Improvement District
MPH.....Miles Per Hour
MUTCD.....Manual on Uniform Traffic Control Devices
NDOTNevada Department of Transportation
NDSPNevada Department of State Parks
PMSPantone Matching System (for color matching purposes)
SR.....State Route
TRPA.....Tahoe Regional Planning Agency
TTD.....Tahoe Transportation District
USFSUnited States Forest Service

Prepared By



WOOD RODGERS
DEVELOPING INNOVATIVE DESIGN SOLUTIONS

5440 Reno Corporate Drive • Reno, NV 89511
(775) 823-4068

Funded by



Table of Contents

2	Purpose & Intent
3	Section 1: Corridor Identity & Standards
4	Image Research
5	Naming, Branding, and Logos
6	Material Selection & Specifications
7	Section 2: Highway Wayfinding
8	Sign Types & Location
9	SR 28 Gateway Signage
10	Existing Sign Inventory
12	Global Standing Sign Standards
13	Sign Type A: Vehicular Pole-mounted Directional
14	Sign Type B: Vehicular Monumental Directional
15	Sign Type C: Vehicular Monumental Destination
16	Sign Type D: Vehicular Destination Monument
17	Sign Type E: Secondary Roadway / Pedestrian Pole-Mounted Directional
18	Sign Type F: Parking & Alerts
19	Section 3: Bike & Pedestrian Wayfinding & Interpretive Signage
20	Sign Types and Location
21	Sign Type G: Pedestrian Trail Map
22	Sign Type H: Pedestrian Trail Monument
23	Sign Type I: Pedestrian Small Profile Wayfinding
24	Sign Type J: Pedestrian Mile Marker
26	Trail Vista Points
27	Section 4: Alternative & Future Signage
28	Alternative & Future Signs

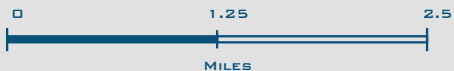
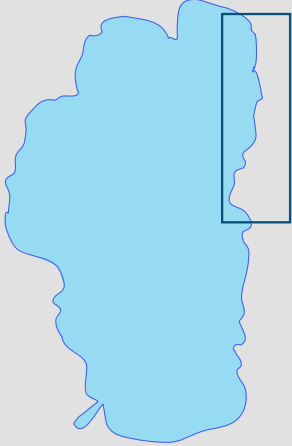


STATE ROUTE 28: PROPERTY OWNERSHIP

SR-28 SIGNAGE PROJECT

- STATE ROUTE 28
- SHARED USE PATH
- OWNERSHIP**
- PRIVATE
- NEVADA STATE PARKS
- U.S. FOREST SERVICE

AREA SHOWN IN MAP



Purpose/Intent of the Signage Master Plan

1. Create consistency in wayfinding signage for East Tahoe.
2. Improve Highway Safety by making wayfinding easier for motorists and recreation users in order to avoid unnecessary travel looking for recreational and parking areas.
3. Create a sense of place and unique identity for the SR 28 Corridor.
4. Create interpretive opportunities along the Shared Use Path.
5. Provide clarity to trail users regarding stewardship of resources and trail connectivity.
6. Provide a design manual for easy implementation.

Regulatory Framework

Highway wayfinding signage along State Route 28

1. Signage is controlled by the Nevada Department of Transportation (NDOT) and would need to meet the design criteria identified by the Manual on Uniform Traffic Control Devices (MUTCD) and American Association of State Highway and Transportation Officials (AASHTO).
2. Signage would need to meet Tahoe Regional Planning Agency (TRPA) Standards for Aesthetics

Off-highway and Shared Use Path wayfinding signage outside of State Route 28 right of way

1. Controlled by respective property owners as identified in the Property Ownership Map (USFS, NV State Parks)
2. Coordination with Incline Village General Improvement District (IVGID) for gateway signage located within Incline Village
3. Coordination with the respective county (Washoe County, Carson City, and Douglas County)
4. Signage would need to meet TRPA Standards for Aesthetics

Implementation, Ownership & Maintenance

Multiple agencies have jurisdiction within the SR 28 Corridor. This Signage Master Plan provides consistent signage to meet the requirements of the various agencies; however, the plan does not specify implementation, ownership and maintenance responsibilities. Application for sign permits must be made with each applicable agency depending on location. Financial responsibility for final sign design and engineering, fabrication, installation and ongoing repairs, maintenance, and inspections will be determined with each signage permit application.

Partners

Washoe County • TTD • TRPA • NDOT • NDSP • USFS • IVGID • Douglas County • Carson City • Washoe Tribe • Tunnel Creek Café • Tahoe Fund



SECTION 1: CORRIDOR IDENTITY & STANDARDS

IMAGE RESEARCH



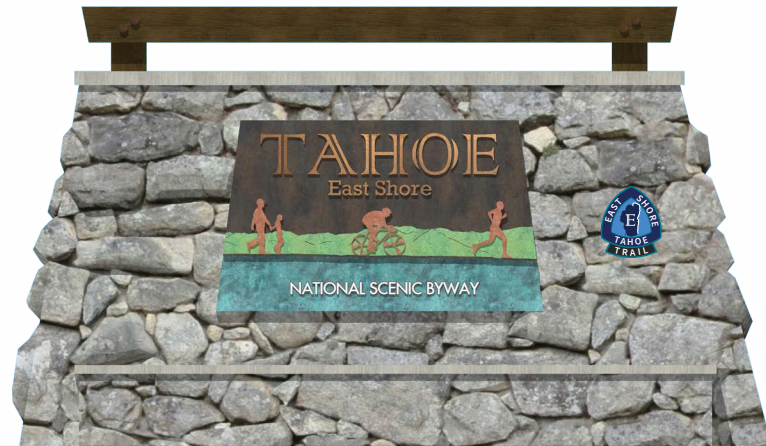
CORRIDOR IDENTITY & STANDARDS

NAMING, BRANDING, AND LOGOS

Naming Standards

Specific naming conventions shall be used at all times

- When referencing the East Shore trail, the official name shall be “Tahoe East Shore Trail.”
- When referencing only the East Shore area, the official name shall be “Tahoe East Shore.”
- When referencing the State Route 28 Scenic Byway, the official name shall be “Tahoe East Shore National Scenic Byway.”
- The official tag line for the State Route 28 Scenic Byway is defined as “America’s Most Beautiful Drive.”



Example of naming and logo standards on a gateway monument

Single Color Trail Logo Options



The preferred color when only one color is available for printing is to use blue:
Pantone+ CMYK Uncoated, P106-6
C: 72 M: 38 Y:0 K:0



If color is not applicable for print, black may be used



A 50% black gray scale coloring may be used if no other options are applicable. The four color or single blue color guidelines are preferred.



On a dark background, a white color may be used. Alternatively, the outer edges may be white keeping the full internal colors.

Aluminum and Iron Cut Logo Options

The Tahoe East Shore Trail logo has been designed to allow for single-piece iron or cut aluminum. In each case, some modifications to the logo will need to be made to allow for all pieces to connect as one. The “Tahoe East Shore Trail” font will need to be modified to allow inner pieces to connect to the overall logo similar to a stencil-style font. The center Lake Tahoe shape will be enlarged as to connect to the rest of the piece. The central “E” character will be scaled down

by approximately 10% to fit as a single cut inside the lake symbol and will allow the bottom of the vertical bar of the “E” character to connect to the lake symbol. Holes may be cut into the three points of the badge for mounting purposes where applicable.



Flat aluminum option



3D rendering of oxidized iron option

Four Color Trail Logo



- Pantone+ CMYK Uncoated, P 103-16 U
C: 97 M: 81 Y:0 K:51
- Pantone+ CMYK Uncoated, P 120-14 U
C: 75 M: 0 Y:11 K:45
- Pantone+ CMYK Uncoated, P 106-6
C: 72 M: 38 Y:0 K:0
- Pantone+ CMYK Uncoated, P 179-15
C: 0 M: 0 Y:0 K:95

Color theme references Lake Tahoe’s natural colors in shallow and deep waters

Lake Tahoe Universal Theme

The logo for the East Shore Trail fits into a universal format that may cover the entire perimeter of Lake Tahoe in a future trail network. In this network, there will be a unique logo for North, East, South, and West Tahoe.



CORRIDOR IDENTITY & STANDARDS

MATERIAL SELECTION & SPECIFICATIONS

The use of naturally occurring materials will help to keep a consistent feel with the natural beauty of the Tahoe East Shore area and will help to establish a brand design. A primary goal is to keep signage from overpowering the natural beauty of the area while also not being dwarfed by it. Sign dimensions that are shown in this document may be adjusted to suit each specific location. ADA requirements should be referenced on a location by location basis. Colors for each sign are to match the colors assigned in this document to exact specifications or as closely as possible.

Granite

Example Uses: Walls, vista point groundwork, and areas with general masonry.



Wherever masonry is a consideration for use, the inclusion of fractured granite which directly matches the Tahoe East Shore area should be used. This may apply to signage which includes a stone base, walls around vista points, and groundwork for vista points or similar.

Wood

Example Uses: Sign posts, mileage markers, and sign header bars.



It is recommended to use naturally occurring Douglas Fir and Western Red Cedar wood options on all applicable signs and general sign posts.

Metal




Example Uses: Sign post support base, sign hardware (i.e. bolts), and solid logos.






The use of powder-coated metals may be used for sign support brackets, sign faces and backings, and hardware such as bolts. Oxidized iron (rust) patina for solid metal logos are recommended to keep both a historic and natural look.

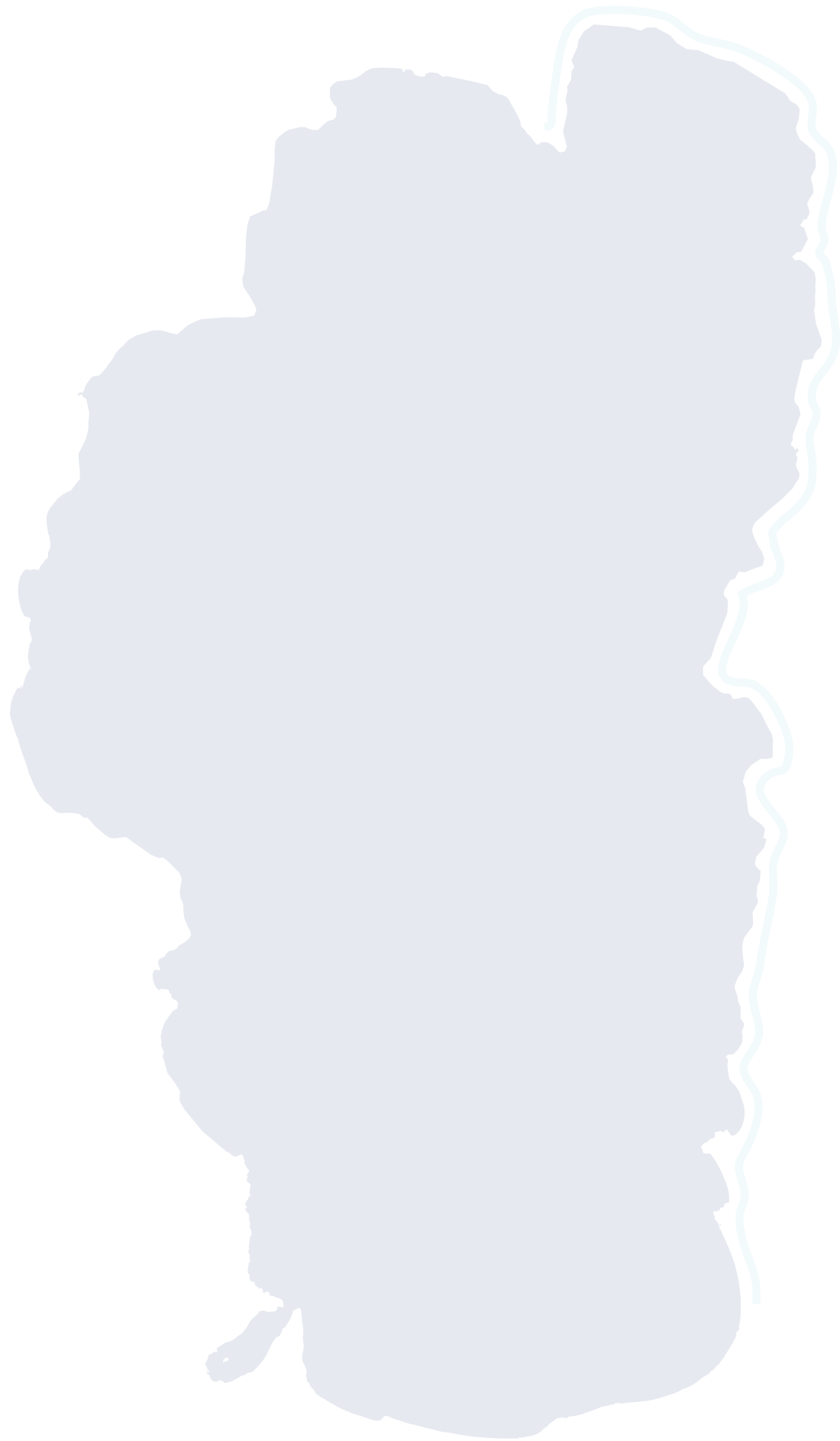
Colors

Signs will use a common color theme to establish a brand design and consistent feel to the Tahoe East Shore area.

-  East Lake Tahoe Blue: Commonly used behind the “East Lake Tahoe” text which appears on signs A through E. Match to PMS 279c.
-  Highway wayfinding: For use on standard highway signage. Match to PMS 342c.
-  State Park Brown: For use on highway signage when calling out State Park location wayfinding. Match to PMS 1615c.

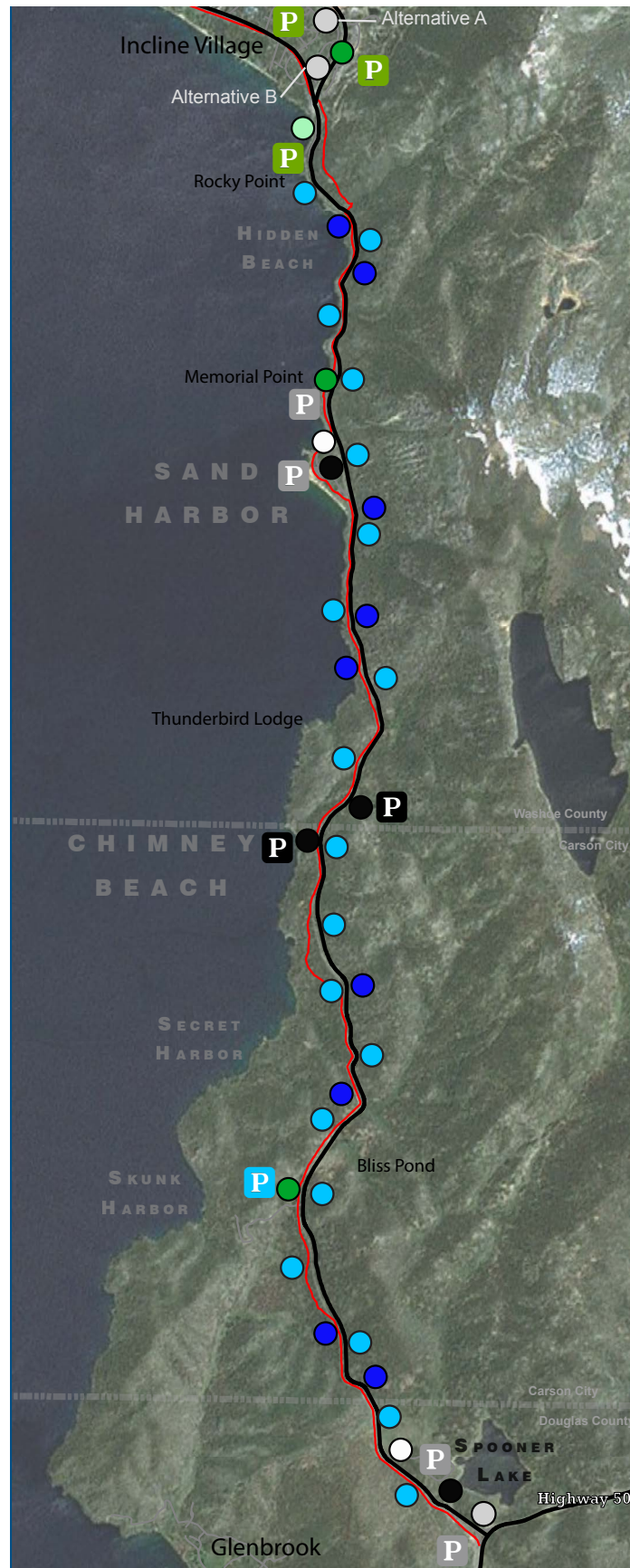
-  Dark Brown: Commonly used on sign faces for signs C through G. Match to PMS 4625c.
-  Brown: Commonly used for powder-coated metals on sign support brackets and bolts. Match to PMS 469c.

 Also for use on all sign icons



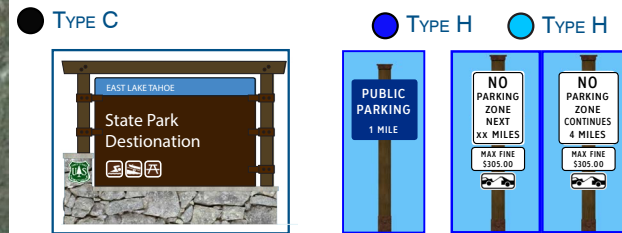
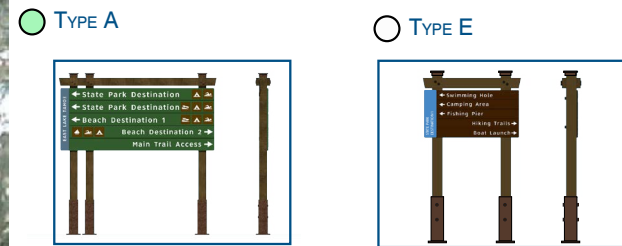
SECTION 2: HIGHWAY WAYFINDING

SIGN TYPES & LOCATION



STATE ROUTE 28 NATIONAL SCENIC BYWAY PROPOSED SIGN TYPE LOCATIONS

PROPOSED SIGN TYPE

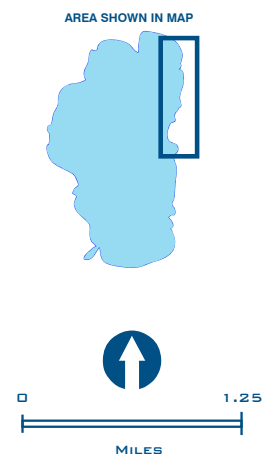


Repeat Every 1/2 Mile

OFF-HIGHWAY PARKING

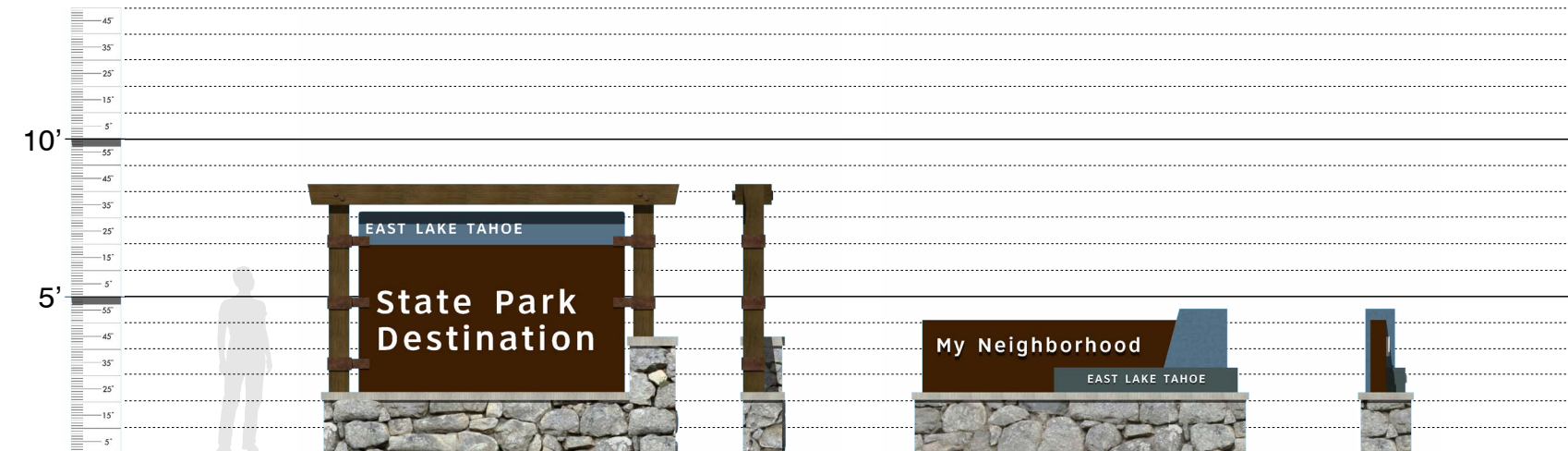


PATHWAYS



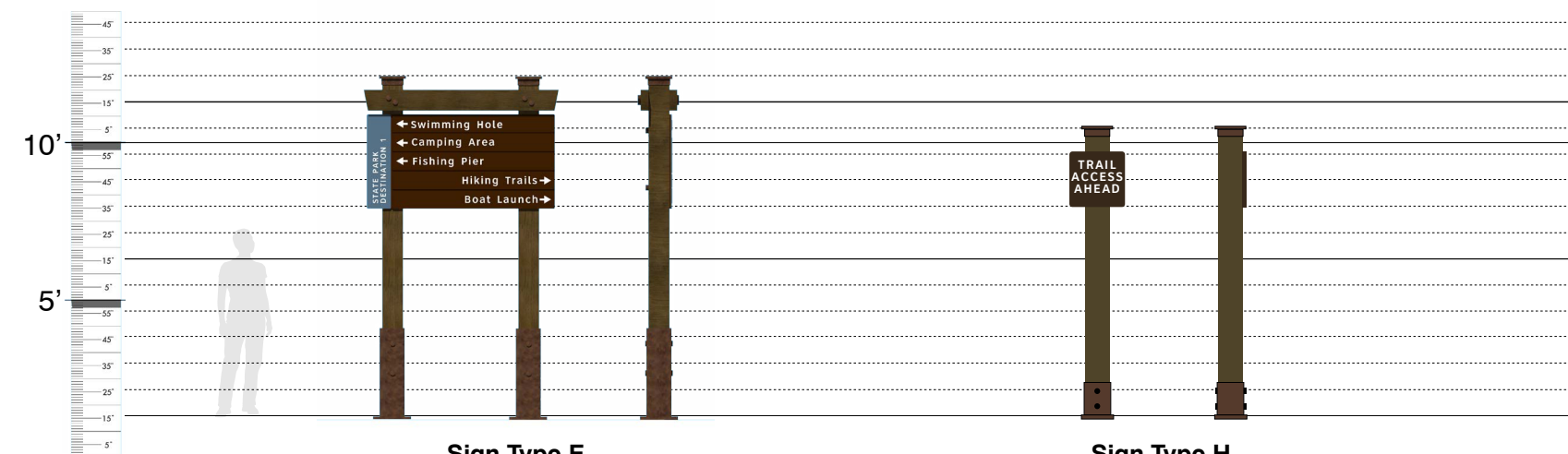
Sign Type A
Vehicular Pole-Mounted Directional

Sign Type B
Vehicular Monument Directional



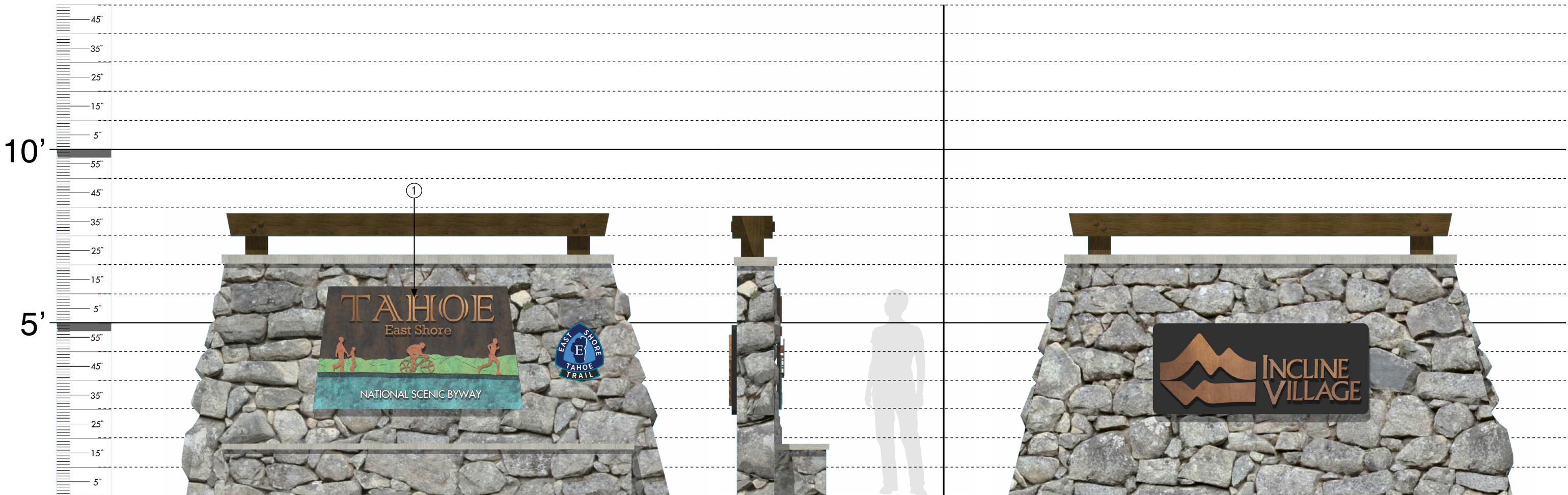
Sign Type C
Vehicular Monument Destination Sign

Sign Type D
Vehicular Destination Monument



Sign Type E
Secondary Roadway / Pole-Mounted Directional

Sign Type H
Parking / Alerts / Warnings



Gateway Monument Alternate A & B Front Side
Placement at Both Byway Entry Points.

Gateway Monument Alternate B Back Side

① **Monument Sign Face and Coloring**

The monument sign face should consist of metals which may be chemically distressed for proper coloration, also known as “patina”. Patina is a thin layer that variously forms on the surface of iron, bronze and similar metals during exposure to atmospheric elements. A common example of which is rust which forms on iron when exposed to oxygen. While it is difficult to get an exact color from patina, the intention is to match the colors of the sign shown above. Choice of metals should be determined based on proper colorization. For example, oxidized iron may be used for the “sky” background, and bronze patina may be used for the blue “lake” coloring. While the use of copper is an option, there should be consideration of risk of theft.

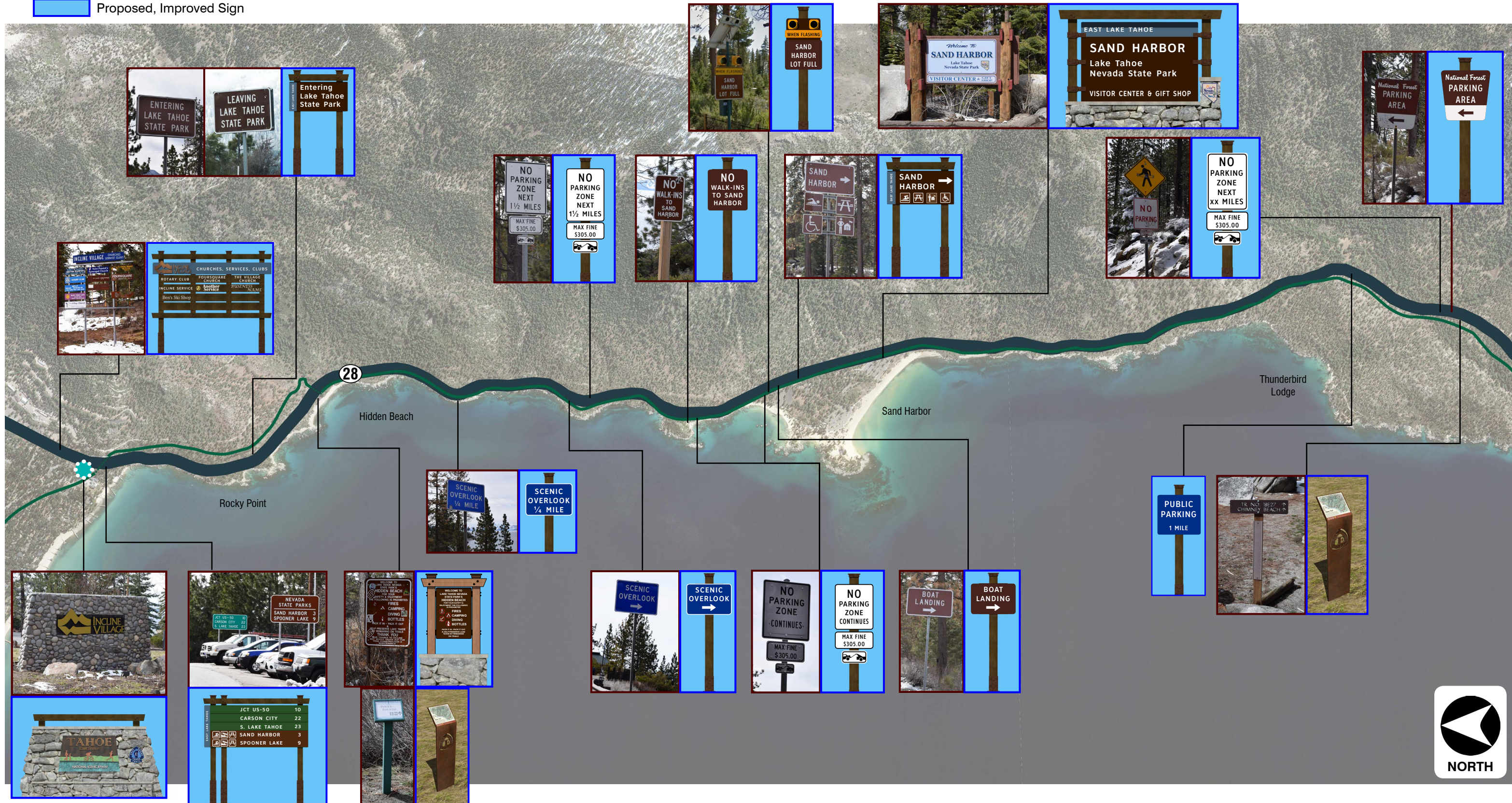
Note:

Alternative A back side shall be fractured granite without Incline Village logo.



Alternate B may use the existing Incline Village gateway monument frame for cost purposes. Remove existing river rock from the monument and reuse the frame if possible.

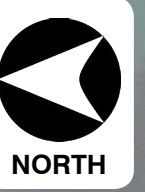
EXISTING SIGN INVENTORY

- Existing Sign
- Proposed, Improved Sign



EXISTING SIGN INVENTORY

-  Existing Sign
-  Proposed, Improved Sign



VEHICULAR SIGNS

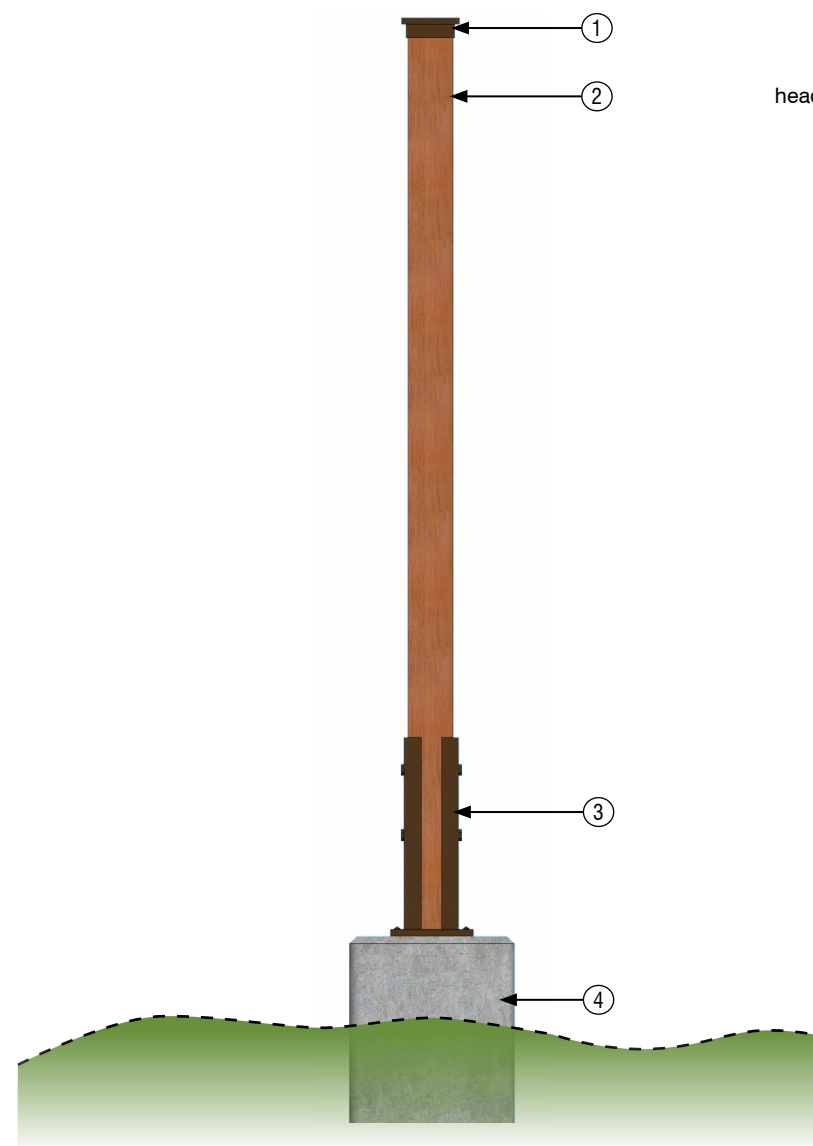
GLOBAL STANDING SIGN STANDARDS

Future and proposed standing signs should follow a consistent style utilizing the materials and colors shown in this document. While dimensions will inevitably change between signs, uniform scaling should be used wherever possible.

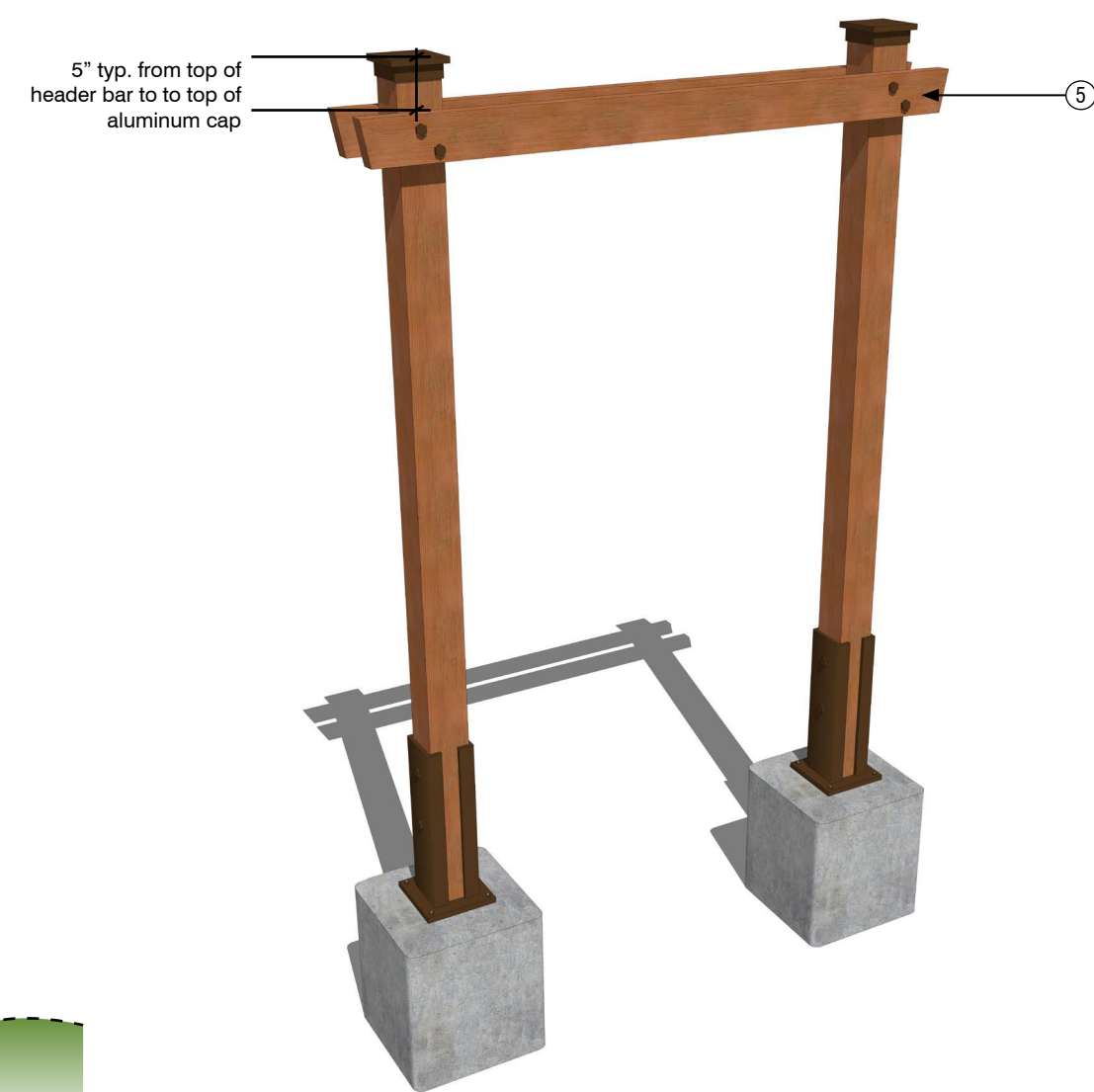
Standard Sign Post

1. **Caps**
 - Material: Powder-coated aluminum.
 - Color: To match PMS 469c.
2. **Vertical Post** - Material: 6" or 8" sq. wood beam (Douglas Fir or Western Red Cedar).
3. **Support Brackets**
 - Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
 - Color: Match to PMS 469c.
 - Mounting: Mount to vertical support beams with standard round thru bolts.
4. **Concrete Base** - Placed 3" min to 12" max above grade level. Avoid wood to ground contact.
5. **Header Bar** - If a sign necessitates the use of two posts, they should be connected by a header bar with tapered ends.
 - Material: Douglas Fir or Western Red Cedar
 - 8" x 3" wood for 8" vertical posts, front and back of sign.
 - 6" x 2" wood for 6" vertical posts, front and back of sign.
 - Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
 - Shape: Taper ends to an angle of 10 degrees

Note: If a sign is to be placed within the 14 foot clear zone of the roadway, reference the latest edition of the "NDOT Standard Plans for Road and Bridge Construction" in the section titled "Roadside Sign Section" for breakaway sign posts. The wooden post mounting may need to be modified to allow for breakaway safety standards.



Front view of a typical sign post



Typical double sign posts

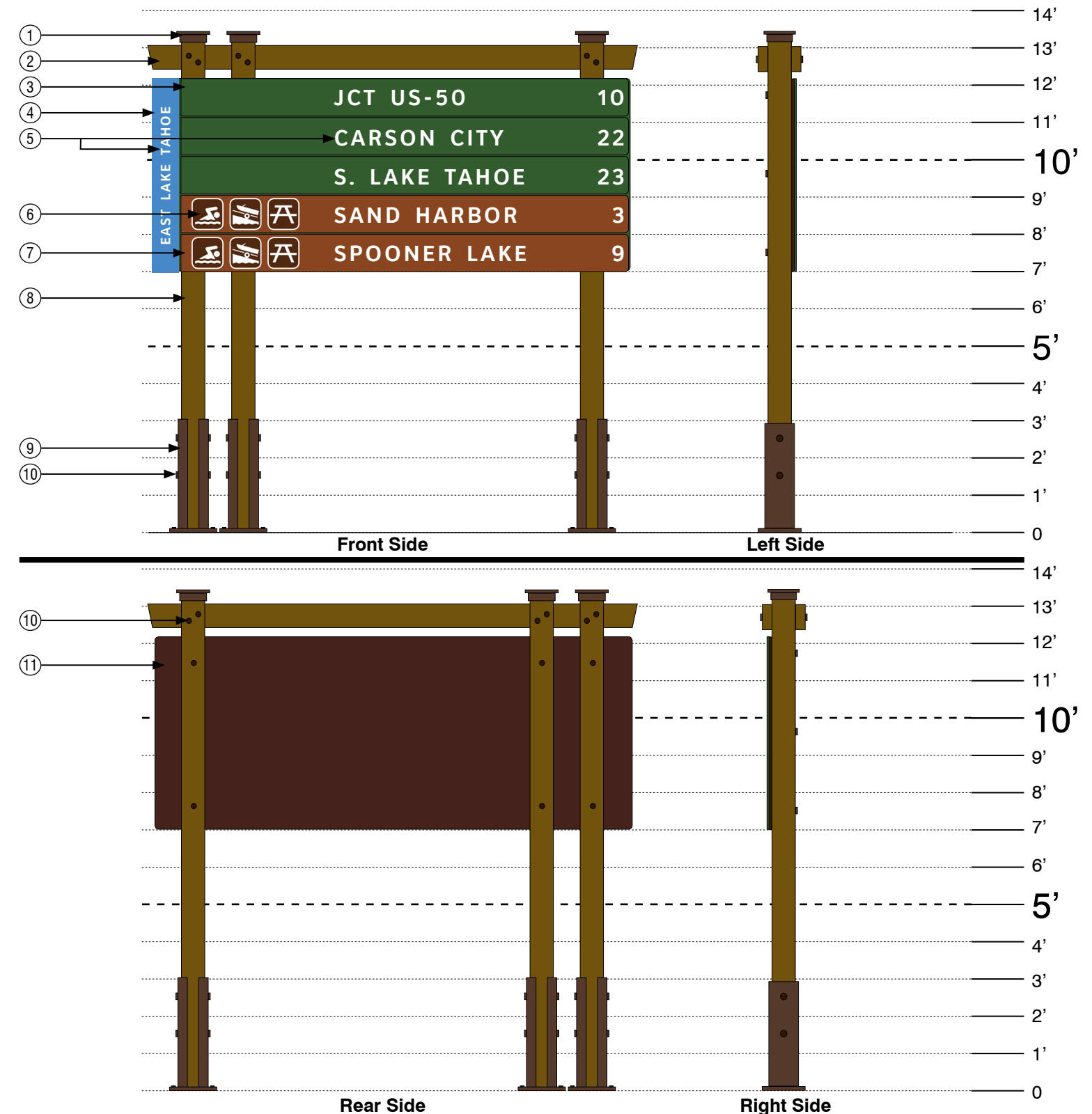
VEHICULAR SIGNS

TYPE A: VEHICULAR POLE-MOUNTED DIRECTIONAL

The purpose of this sign is to notify roadway users of upcoming destinations, activities, facilities, and directions. Its intended use is for vehicles traveling between 20 and 50 MPH.

- Sign stands 13.5 feet tall and is 12 feet wide. Dimensions are recommended maximums but may be adjusted to suit each specific location as necessary.
- There are a maximum of 5 lines per sign and a recommended minimum of 3 lines per sign.
- Optional State Park destinations may be placed with standard highway coloring and icons.
- Maximum of 3 icons per line. If more than 3 icons are required, an extra line for that destination may be added.

- Caps**
 - Material: Powder-coated aluminum.
 - Color: To match PMS 469c.
- Header Bar**
 - Material: 8" x 3" wood (Douglas Fir or Western Red Cedar), front and back of sign.
 - Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
 - Shape: Taper ends to an angle of 10 degrees
- Sign Panel(s), Highway Wayfinding**
 - Material: 1/4" powder-coated aluminum sign panel(s) with 1" radius corners, 12" height.
 - Color: Match to PMS 342c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Spacing: Panels spaced 1/2" apart.
 - Mounting: Mounts to backer panel with construction adhesive.
- Sign Panel - 1/4" powder-coated aluminum sign panel with 1" radius corners.**
 - Color: Match to PMS 279c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to backer panel with construction adhesive.
- Letters and Arrows**
 - Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
 - Typeface: Clearview Hwy 5W.
- Icons**
 - Material: 10" vinyl recreational symbol with 1" radius corners.
 - Color: Icon background to match PMS 469c, icon white.
- Sign Panel(s), State Park Destinations (Where Applicable)**
 - Material: 1/4" powder-coated aluminum sign panel(s) with 1" radius corners.
 - Color: Match to PMS 1615c
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Spacing: Panels spaced 1/2" apart.
 - Mounting: Mounts to backer panel with construction adhesive.
- Vertical Support Beam** - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).
- Support Brackets**
 - Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
 - Color: Match to PMS 469c.
 - Mounting: Mount to vertical support beams with standard round thru bolts.
- Bolts** - Material: Powder coated round thru bolts attach support bracket to posts.
- Sign Backer Panel**
 - Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
 - Color: Match to PMS 342c
 - Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to vertical support beams with counter-sunk fasteners



VEHICULAR SIGNS

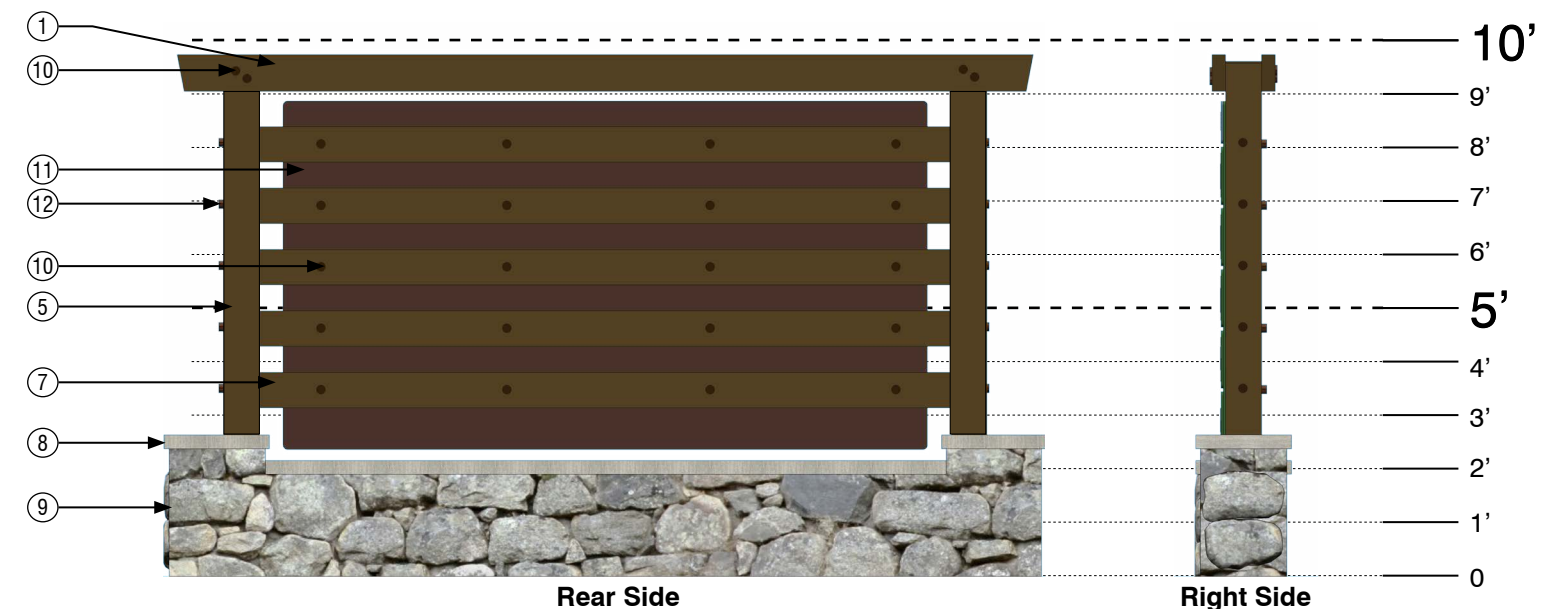
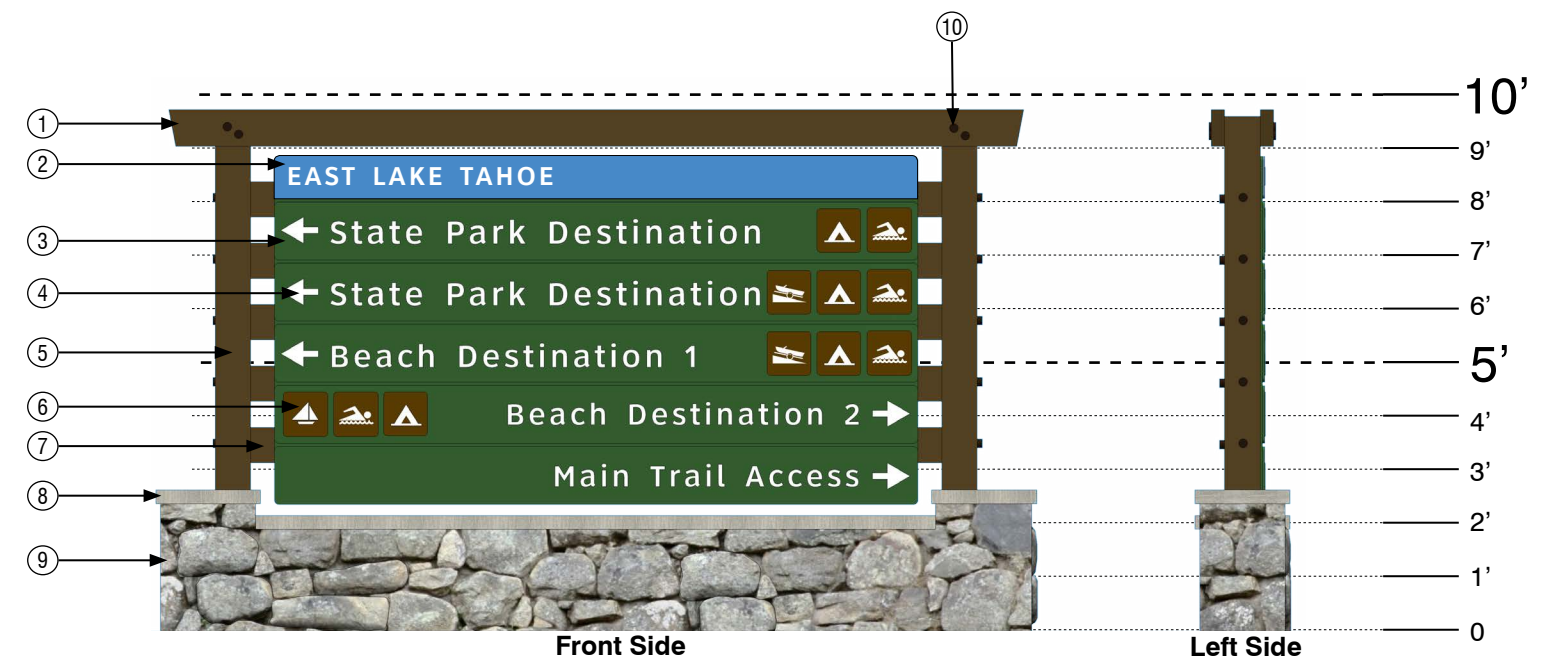
TYPE B: VEHICULAR MONUMENTAL DIRECTIONAL

The purpose of this sign is to notify roadway users of upcoming destinations, activities, facilities, and directions. Its intended use is for vehicles traveling between 20 and 50 MPH.

- Sign stands up to 10 feet tall and is 16 feet wide. Dimensions are recommended maximums but may be adjusted to suit each specific location as necessary.
- There are a maximum of 5 lines per sign and a recommended minimum of 3 lines per sign.
- Maximum of 3 icons per line. If more than 3 icons are required, an extra line for that destination may be added.

NOTE: This sign does not appear on the proposed sign location map. This design is provided as a standard for possible future sign needs.

- Header Bar**
 - Material: 8" x 3" wood (Douglas Fir or Western Red Cedar), front and back of sign.
 - Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
 - Shape: Taper ends to an angle of 10 degrees
- Sign Panel** - 1/4" powder-coated aluminum sign panel with 1" radius corners.
 - Color: Match to PMS 279c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to backer panel with construction adhesive.
- Sign Panel(s)**
 - Material: 1/4" powder-coated aluminum sign panel(s) with 1" radius corners.
 - Color: Match to PMS 342c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Spacing: Panels spaced 1/2" apart.
 - Mounting: Mounts to backer panel with construction adhesive.
- Letters and Arrows**
 - Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
 - Typeface: Clearview Hwy 5W.
- Vertical Support Beam** - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).
- Icons**
 - Material: 10" vinyl recreational symbol with 1" radius corners.
 - Color: Icon background to match PMS 469c, icon white.
- Horizontal Beam**
 - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).
 - Mounting: Mount to vertical support beams with standard 2" round thru bolts.
- Concrete Top**
 - Material: Cured-in-place (CIP) concrete top
 - Color: Match to medium gray.
- Support Base**
 - Material: Cured-in-place (CIP) concrete with fractured granite, to match granite found around East Lake Tahoe
- Round Bolts**
 - Material: Powder coated round 2" thru bolts
 - Color: Match to PMS 4625c
- Sign Backer Panel**
 - Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
 - Color: Match to PMS 4625c.
 - Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to horizontal beams with counter-sunk fasteners
- Square Bolts**
 - Material: Powder coated square 2" thru bolts
 - Color: Match to PMS 4625c



VEHICULAR SIGNS

TYPE C: VEHICULAR MONUMENTAL DESTINATION

The purpose of this sign is to notify roadway users of arrival to an East Lake Tahoe destination. Its intended use is for vehicles traveling between 20 and 50 MPH.

- Sign stands at 8.5 feet tall and 10.5 feet wide. Dimensions are recommended maximums but may be adjusted to suit each specific location as necessary.
- May include up to two destination names.
- May include up to 7 icons in one line
- Can be one or two sided

1. Header Bar

- Material: 8" x 3" wood (Douglas Fir or Western Red Cedar), front and back of sign.
- Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
- Shape: Taper ends to an angle of 10 degrees

2. Sign Panel - 1/4" powder-coated aluminum sign panel with 1" radius corners.

- Color: Match to PMS 279c.
- Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to backer panel with construction adhesive.

3. Letters and Arrows

- Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
- Typeface: Clearview Hwy 5W.

4. Vertical Support Beam - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).

5. Support Straps

- Material: Powder-coated aluminum support straps.
- Color: Color to match PMS 498c
- Mounting: Mount to vertical support beams and aluminum panel with 1" thru bolts.

6. Round Bolts

- Material: 1" Powder-coated aluminum round thru bolts
- Color: Match to PMS 4625c

7. Sign Panel - 1/4" powder-coated aluminum sign panel with 1" radius corners.

- Color: Match to PMS 4625c.
- Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to backer panel with construction adhesive.

8. Icons

- Material: 10" vinyl recreational symbol with 1" radius corners.
- Color: Icon background to match PMS 469c, icon white.

9. Concrete Top

- Material: Cured-in-place (CIP) concrete top
- Color: Match to medium gray.

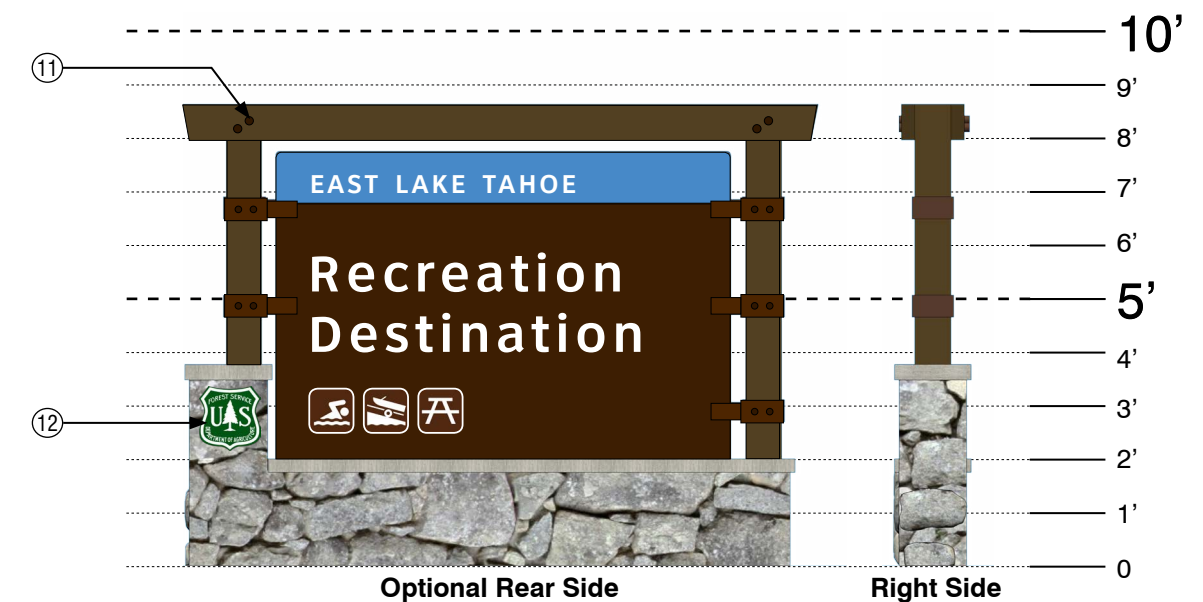
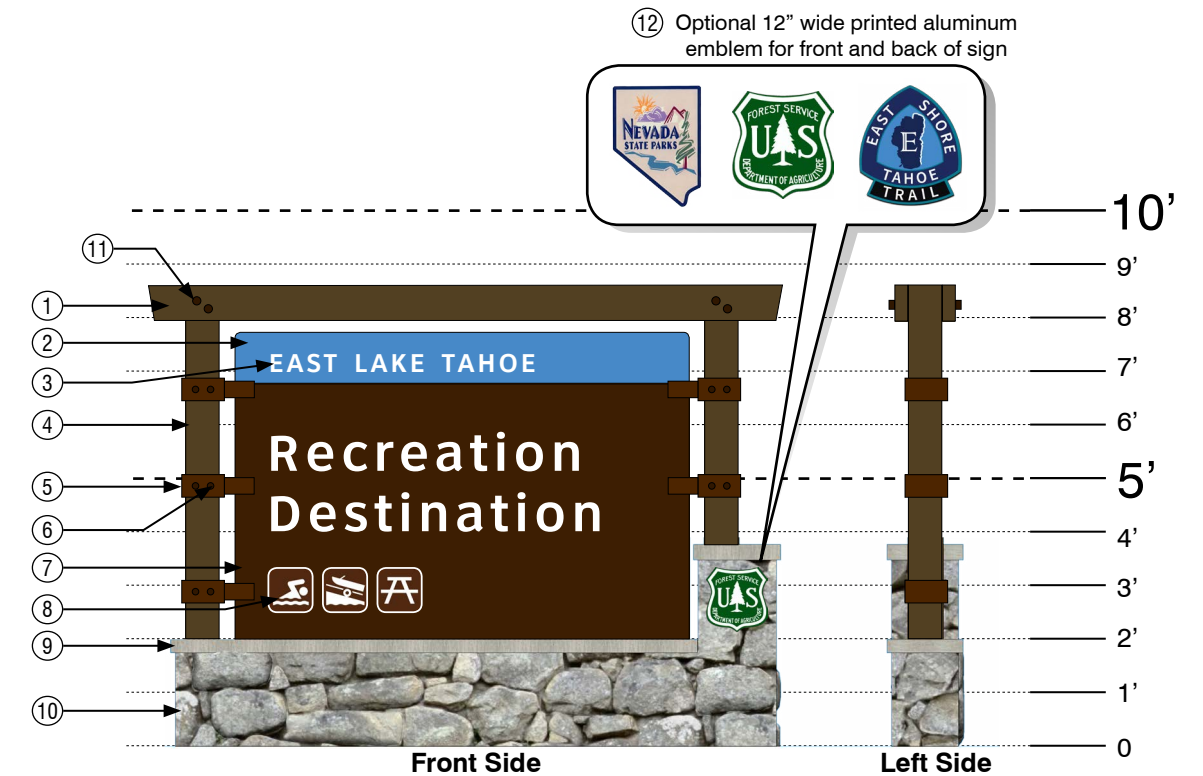
10. Support Base

- Material: Cured-in-place (CIP) concrete with fractured granite, to match granite found around East Lake Tahoe

11. Round Bolts

- Material: Powder coated round 2" thru bolts
- Color: Match to PMS 4625c

12. Optional Printed Aluminum Emblem



VEHICULAR SIGNS

TYPE D: VEHICULAR DESTINATION MONUMENT

The purpose of this sign is to notify roadway users of arrival to an East Lake Tahoe destination or significant area. Its intended use is for vehicles traveling between 20 and 50 MPH.

- Sign stands at 4.5 feet tall and 10.5 feet wide. Dimensions are recommended maximums but may be adjusted to suit each specific location as necessary.
- May have one to two destination names.
- May include up to 4 icons in one line
- Single Sided

1. Sign Cabinet #1

- Material: Powder-coated aluminum sign cabinet.
- Color: Match to PMS 279c.
- Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: All fasteners should be placed on rear of cabinet.

2. Sign Cabinet #2

- Material: Powder-coated aluminum sign cabinet.
- Color: Match to PMS 5405c.
- Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: All fasteners should be placed on rear of cabinet.

3. Sign Cabinet #3

- Material: Powder-coated aluminum sign cabinet.
- Color: Match to PMS 4625c.
- Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: All fasteners should be placed on rear of cabinet.

4. Letterforms

- Material: 1" thick powder-coated aluminum letterforms.
- Color: Match to white reflective vinyl.
- Mounting: Letters flush mount to cabinet #3 with concealed fasteners.
- Typeface: Clearview Hwy 5W.

5. Letterforms

- Material: 1/2" thick powder-coated aluminum letterforms.
- Color: Match to white reflective vinyl.
- Mounting: Letters flush mount to cabinet #2 with concealed fasteners.
- Typeface: Clearview Hwy 5W.

6. Icons

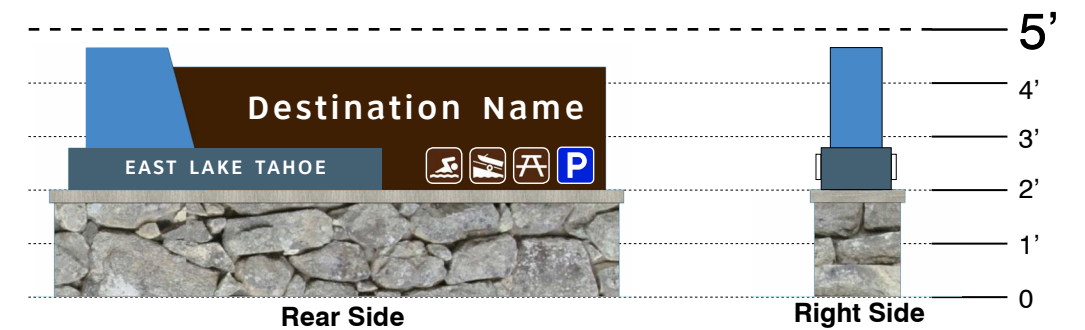
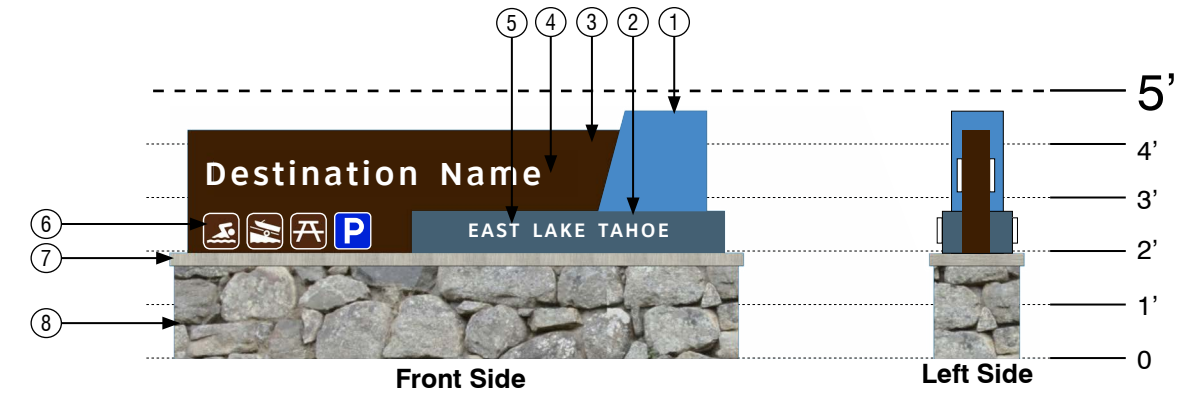
- Material: 8" vinyl recreational symbol with 0.8" radius corners.
- Color: Icon background to match PMS 469c, icon white.

7. Concrete Top

- Material: Cured-in-place (CIP) concrete top
- Color: Match to medium gray.

8. Support Base

- Material: Cured-in-place (CIP) concrete with fractured granite, to match granite found around East Lake Tahoe.



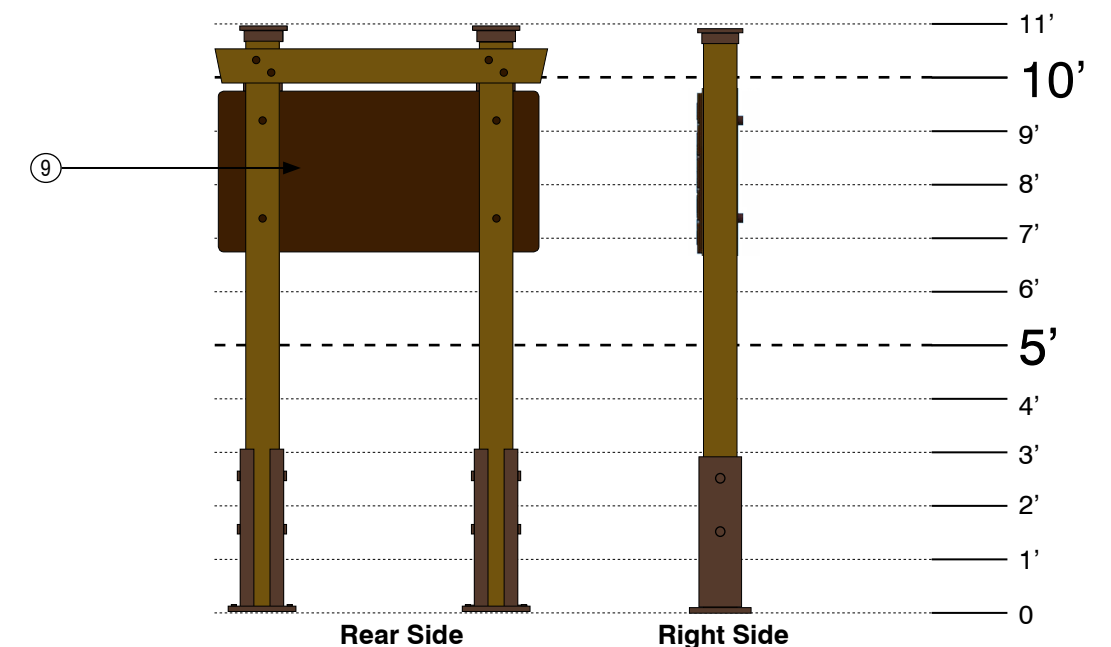
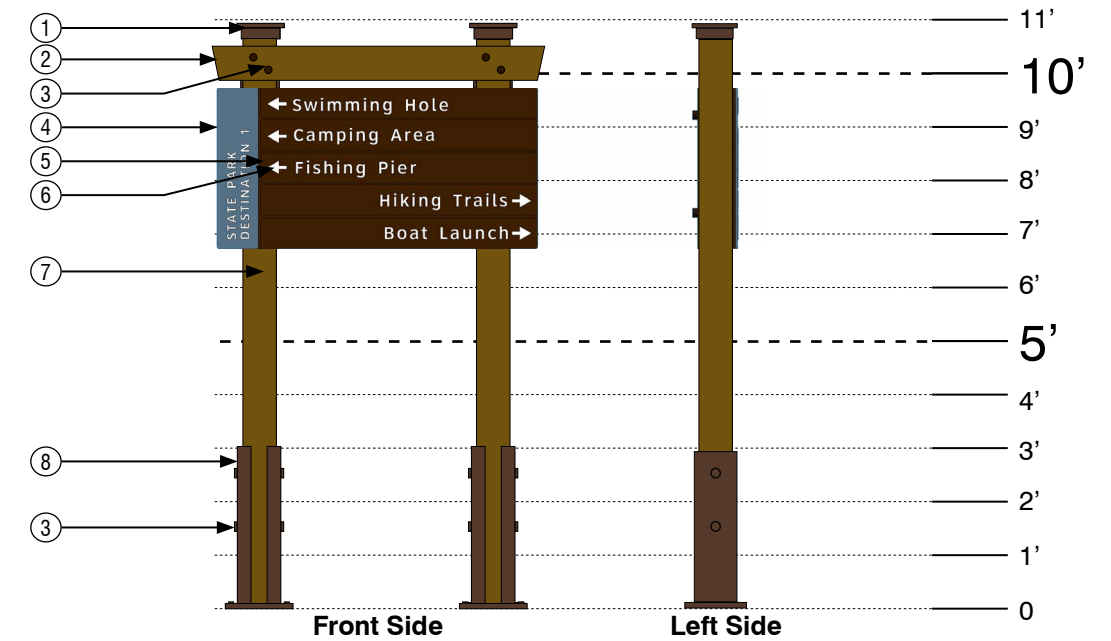
VEHICULAR SIGNS

TYPE E: SECONDARY ROADWAY / PEDESTRIAN POLE-MOUNTED DIRECTIONAL

The purpose of this sign is to notify roadway users of additional features or amenities. Its intended use is for vehicles traveling up to 25 MPH and pedestrians 0 to 20 feet away.

- Sign stands at approximately 11 feet tall and 6 feet wide. Dimensions are recommended maximums but may be adjusted proportionately to suit each specific location as necessary.
- 3 to 5 destinations.
- To be placed alongside secondary roadways or viewable along walkways

- Caps**
 - Material: Powder-coated aluminum.
 - Color: To match PMS 469c.
- Header Bar**
 - Material: 8" x 3" wood (Douglas Fir or Western Red Cedar), front and back of sign.
 - Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
 - Shape: Taper ends to an angle of 10 degrees
- Bolts** - Material: Powder coated round thru bolts attach support bracket to posts.
- Sign Panel** - 1/4" powder-coated aluminum sign panel with 1" radius corners.
 - Color: Match to PMS 279c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to backer panel with construction adhesive.
- Sign Panel(s)**
 - Material: 1/4" powder-coated aluminum sign panel(s) with 1" radius corners.
 - Color: Match to PMS 4625c.
 - Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
 - Spacing: Panels spaced 1/2" apart.
 - Mounting: Mounts to backer panel with construction adhesive.
- Letters and Arrows**
 - Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
 - Typeface: Clearview Hwy 5W.
- Vertical Support Beam** - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).
- Support Brackets**
 - Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
 - Color: Match to PMS 469c.
 - Mounting: Mount to vertical support beams with standard round thru bolts.
- Sign Backer Panel**
 - Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
 - Color: Match to PMS 4625c
 - Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to vertical support beams with counter-sunk fasteners



VEHICULAR SIGNS

TYPE F: PARKING & ALERTS

The purpose of this sign is to notify roadway users of additional features or amenities. Its intended use is for vehicles traveling up to 25 MPH and pedestrians 0 to 20 feet away.

- Sign stands at up to a maximum of 10.5 feet tall and 18 inches wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary.
- To be placed alongside secondary roadways or viewable along walkways

1. Caps

- Material: Powder-coated aluminum.
- Color: To match PMS 469c.

2. Sign Panel(s)

- Material: 1/4" powder-coated aluminum sign panel(s) with 1" radius corners.
- Color: Match to PMS 4625c.
- Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to backer panel with construction adhesive.

3. Letters and Arrows

- Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
- Typeface: Clearview Hwy 5W.

4. Vertical Support Beam - Material: 8" sq. wood beam (Douglas Fir or Western Red Cedar).

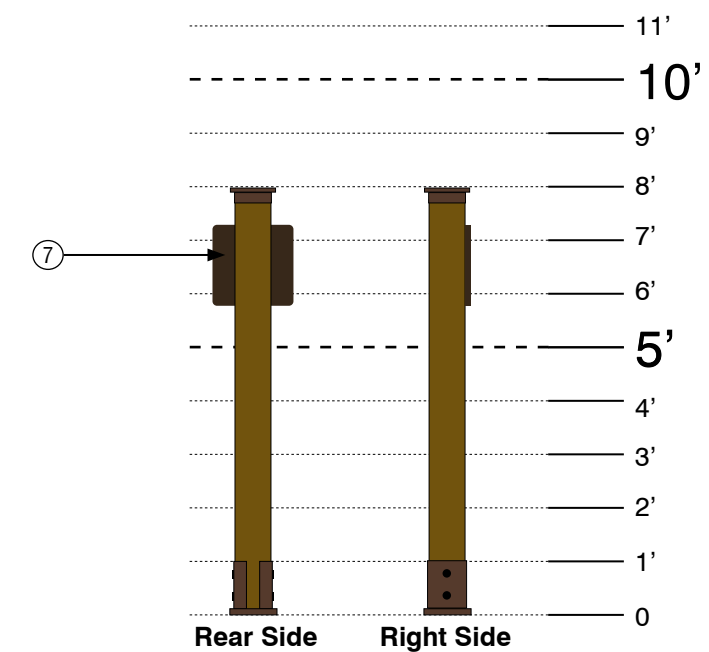
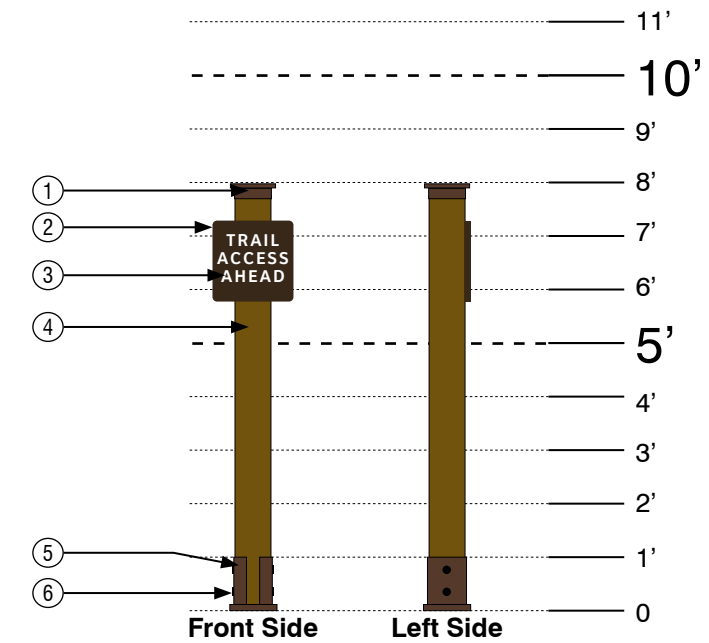
5. Support Brackets

- Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
- Color: Match to PMS 469c.
- Mounting: Mount to vertical support beams with standard round thru bolts.

6. Bolts - Material: Powder coated round thru bolts attach support bracket to posts.

7. Sign Backer Panel

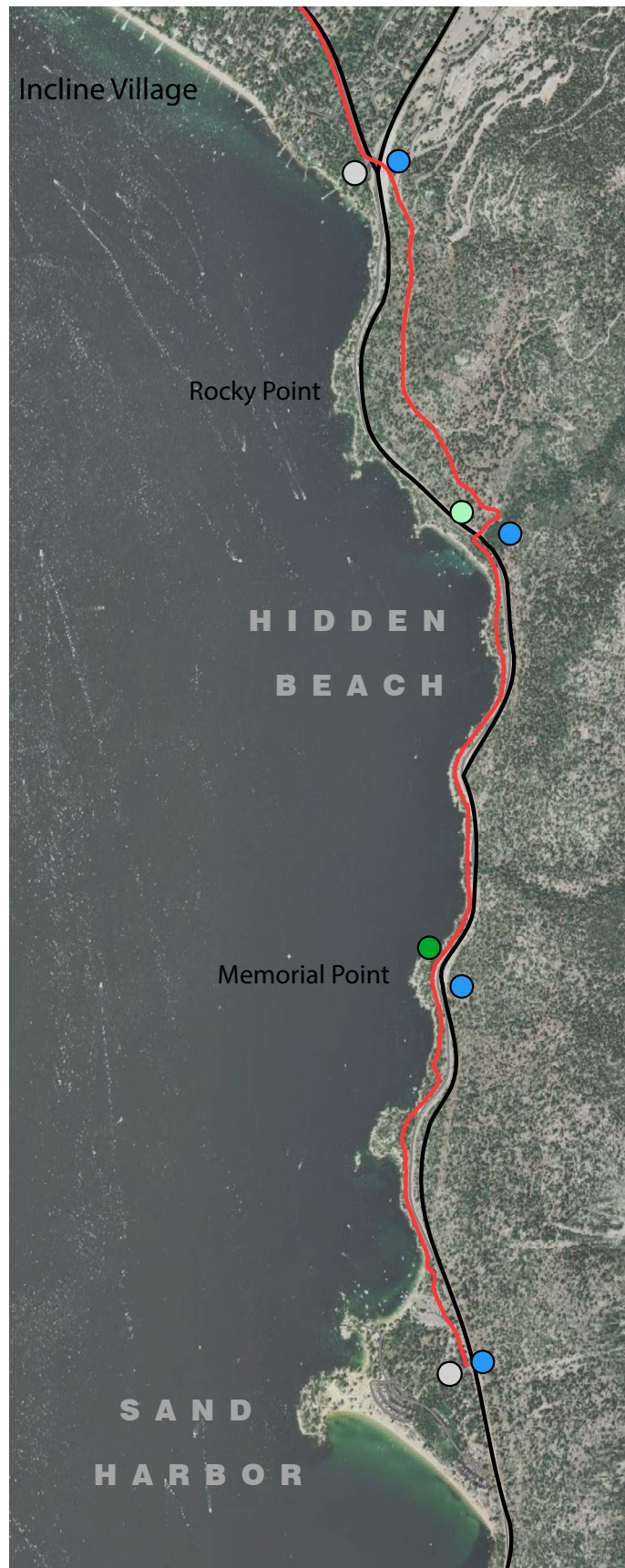
- Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
- Color: Match to PMS 4625c
- Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to vertical support beams with counter-sunk fasteners





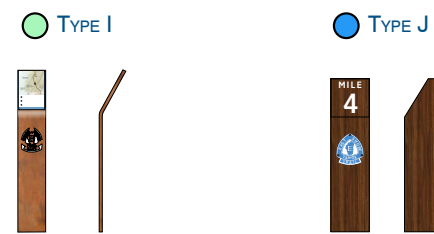
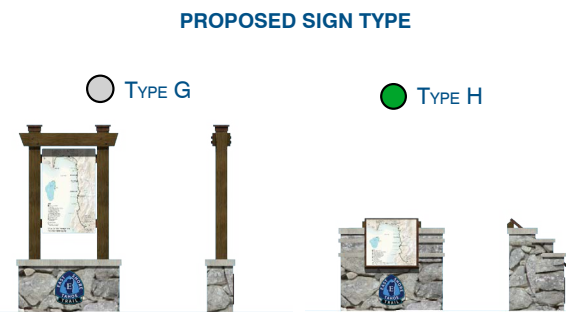
SECTION 3: BIKE & PEDESTRIAN WAYFINDING & INTERPRETIVE SIGNAGE

SIGN TYPES AND LOCATION



TAHOE EAST SHORE TRAIL

PROPOSED SIGN TYPE LOCATIONS

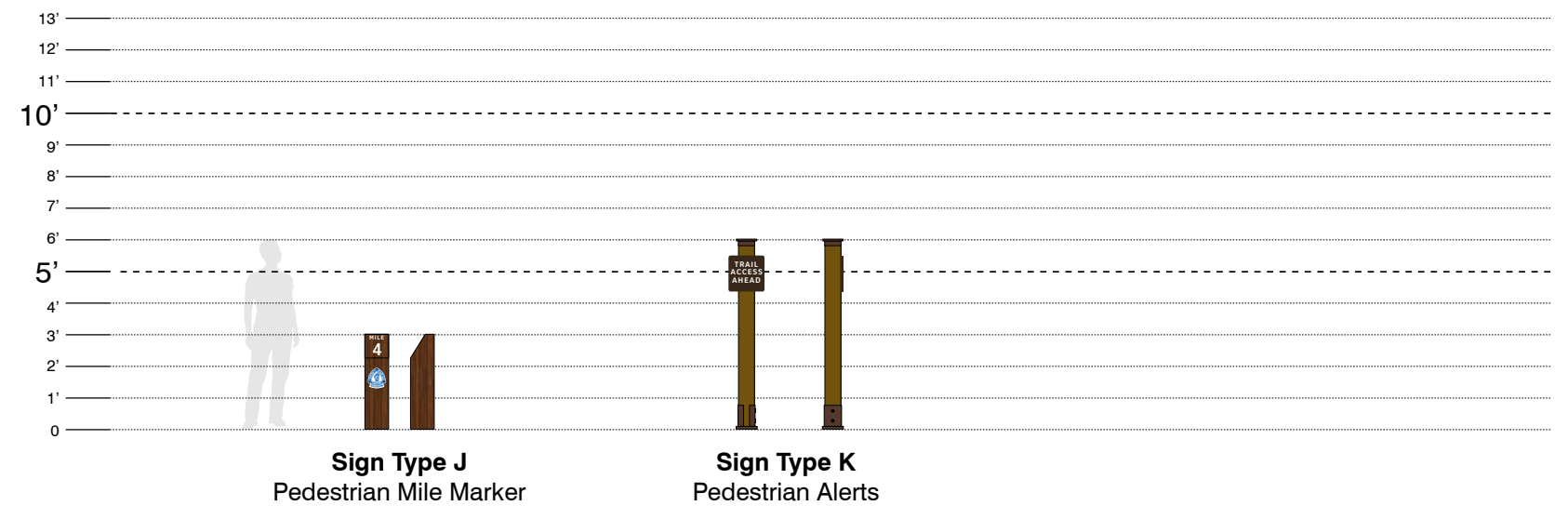
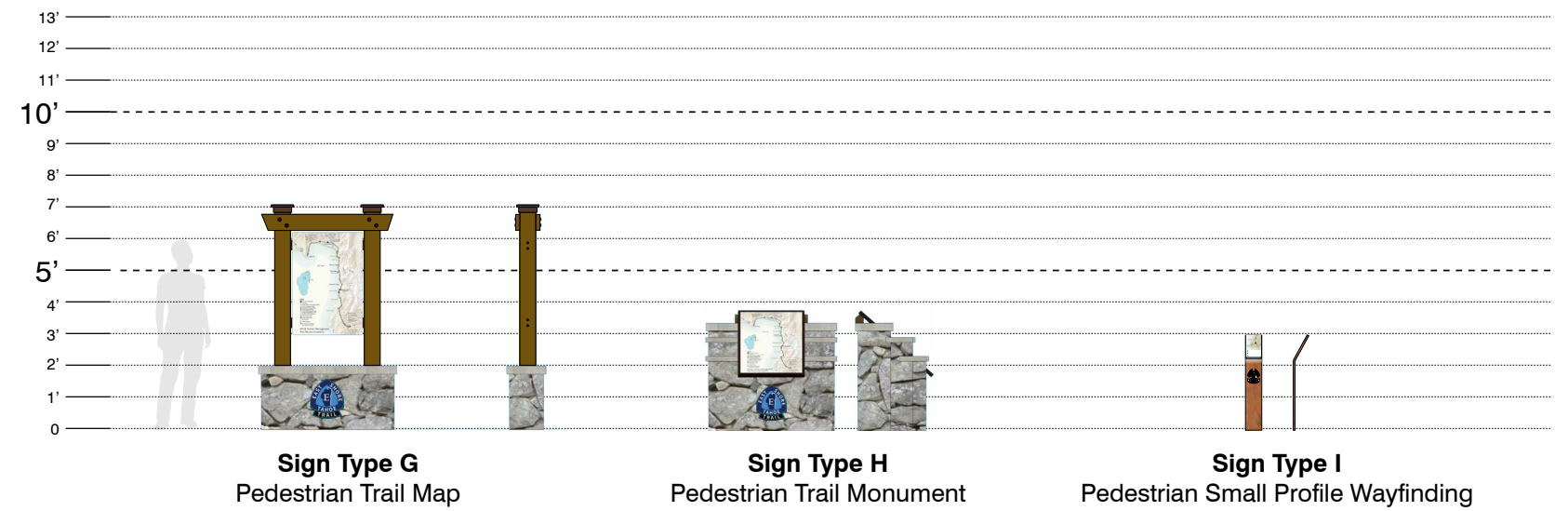
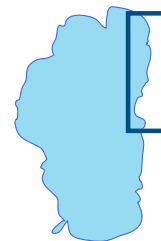


PATHWAYS

STATE ROUTE 28

TAHOE EAST SHORE TRAIL

AREA SHOWN IN MAP



Bike & Pedestrian Wayfinding Signage Placement

- Signage locations south of Sand Harbor should be included in the design of the next phase of the East Shore Trail.
- Sign Type J should be placed at 1 mile intervals along the trail and continued on south of Sand Harbor in the future.
- Sign Type G should be used at trail connection points, such as trail heads and where other trails connect.
- Sign Type H should be used at prominent destinations along the trail.

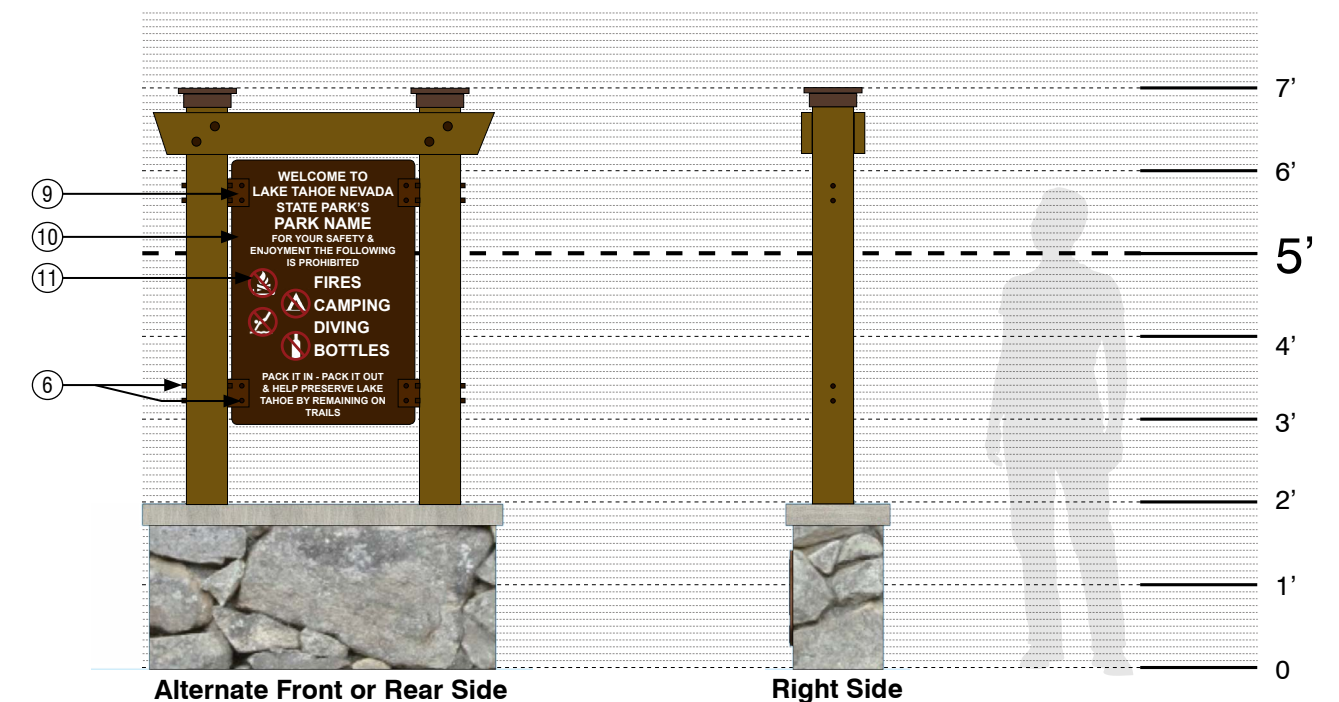
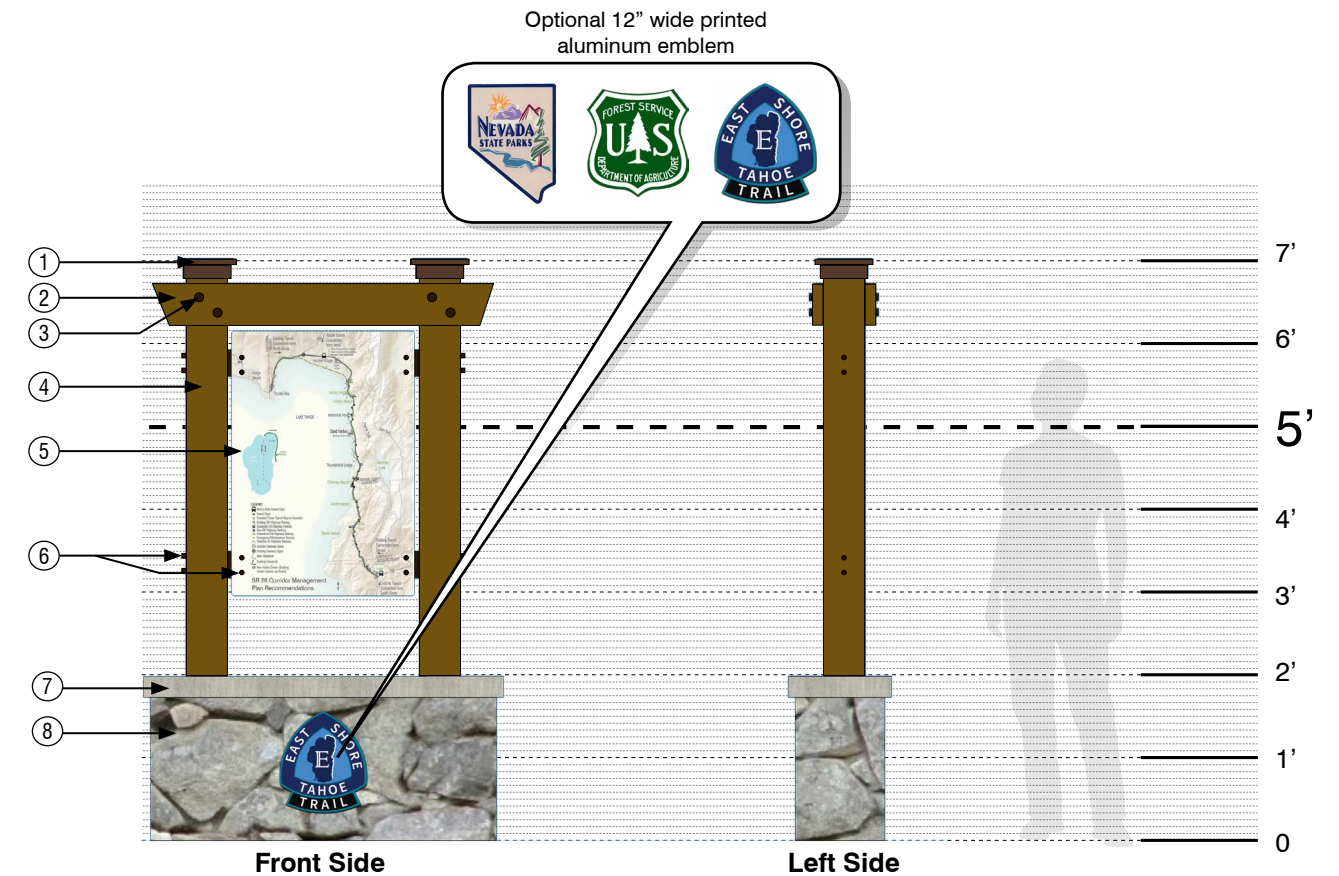
PEDESTERIAN & TRAIL SIGNS

TYPE G: PEDESTRIAN TRAIL MAP

The purpose of this sign is to mark important locations, trail entrances, and areas of interest along the way. Its intended use is for pedestrians 0 to 20 feet away.

- Sign stands at 7 to 10 feet tall and 3 to 6 feet wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary, and must meet all Americans with Disabilities Act (ADA) requirements.
- Interpretive panel is UV, abrasion, graffiti and burn resistant material
- Optional printed aluminum emblem affixed to stone base

- Caps**
 - Material: Powder-coated aluminum.
 - Color: To match PMS 469c.
- Header Bar**
 - Material: 8" x 3" wood (Douglas Fir or Western Red Cedar), front and back of sign.
 - Mounting: Mount to vertical support beams with standard round 2" thru bolts. Maintain 5" distance from top of header bar to top of aluminum cap.
 - Shape: Taper ends to an angle of 10 degrees
- Hardware** - Round 2" powder-coated aluminum thru bolts.
 - Color: To match PMS 4625c.
- Vertical Support Beam** - Material: 6" sq. wood beam (Douglas Fir or Western Red Cedar).
- Interpretive Sign Face** - 1/4" high density laminate with 1" radius corners.
 - Material: DuraReader High Pressure Laminate or equivalent.
 - Mounting: Mounts to backer panel with construction adhesive and 1" round thru bolts.
- Hardware** - Round 1" powder-coated aluminum thru bolts.
 - Color: To match PMS 4625c.
- Concrete Top**
 - Material: Cured-in-place (CIP) concrete top
 - Color: Match to medium gray.
- Support Base**
 - Material: Cured-in-place (CIP) concrete with fractured granite, to match granite found around East Lake Tahoe
- Angled Support Brackets**
 - Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
 - Color: Match to PMS 469c.
 - Mounting: Mount to vertical support beams with standard 1" round thru bolts.
- Interpretive Sign Backing**
 - Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
 - Color: Match to PMS 4625c
 - Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
 - Mounting: Mounts to angled support brackets with 1" thru bolts.
- Optional Informative Text**
 - Material: 1/4" powder-coated printed aluminum.



PEDESTERIAN & TRAIL SIGNS

TYPE H: PEDESTRIAN TRAIL MONUMENT

The purpose of this sign is to mark important locations, trail entrances, and areas of interest along the way. Its intended use is for pedestrians 0 to 20 feet away.

- Sign stands at 4 feet tall and 4.5 feet wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary, and must meet all Americans with Disabilities Act (ADA) requirements.
- Interpretive panel is UV, abrasion, graffiti and burn resistant material.
- Optional printed aluminum emblem affixed to stone base.

1. Concrete Top

- Material: Cured-in-place (CIP) concrete top
- Color: Match to medium gray.

2. Interpretive Sign Face - 1/4" high density laminate with 1" radius corners.

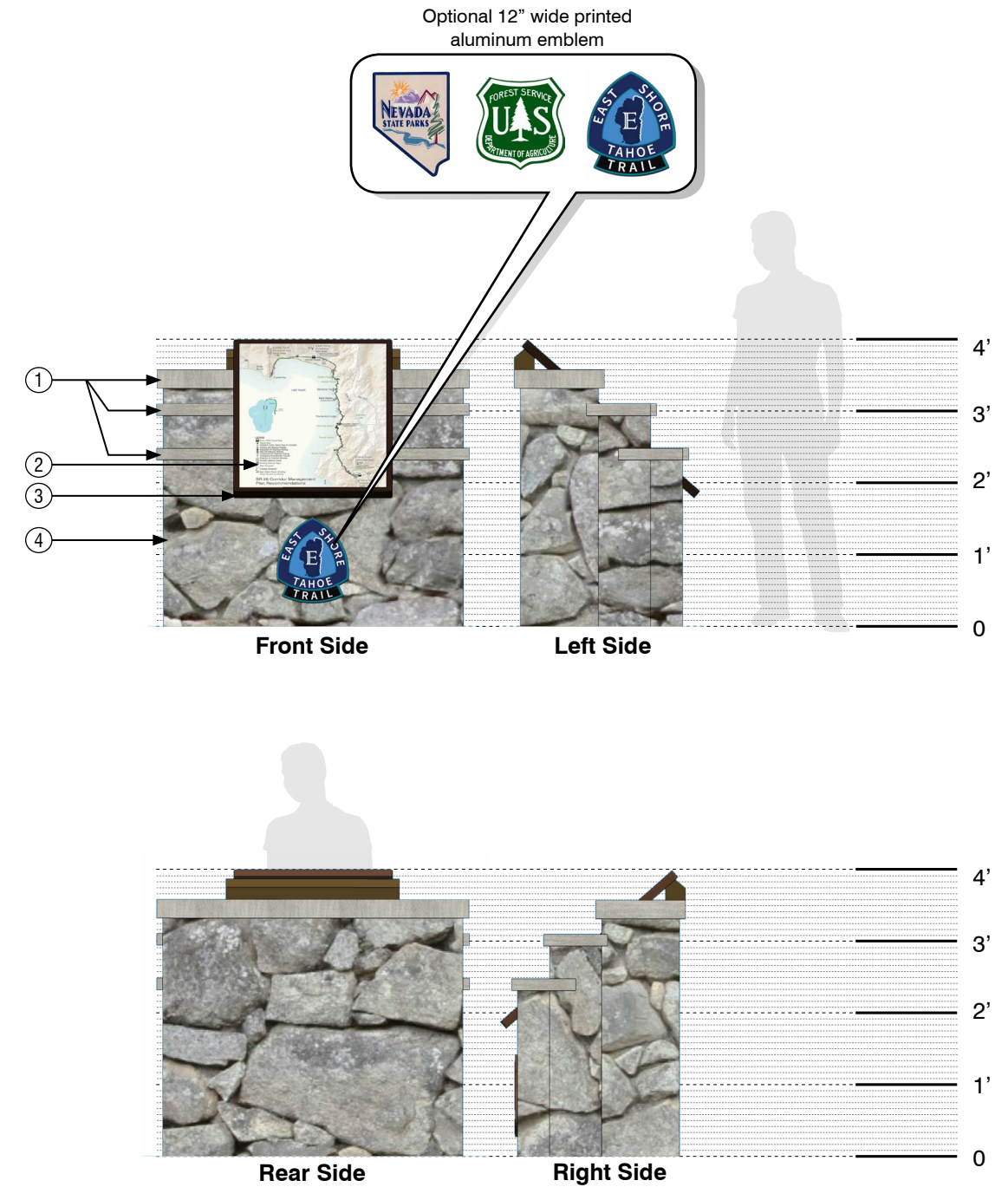
- Material: DuraReader High Pressure Laminate or equivalent.
- Mounting: Mounts to backer panel with construction adhesive and 1" round thru bolts.

3. Frame

- Material: 1/2" square Powder-coated aluminum.
- Color: To match PMS 469c.

4. Support Base

- Material: Cured-in-place (CIP) concrete with fractured granite, to match granite found around East Lake Tahoe



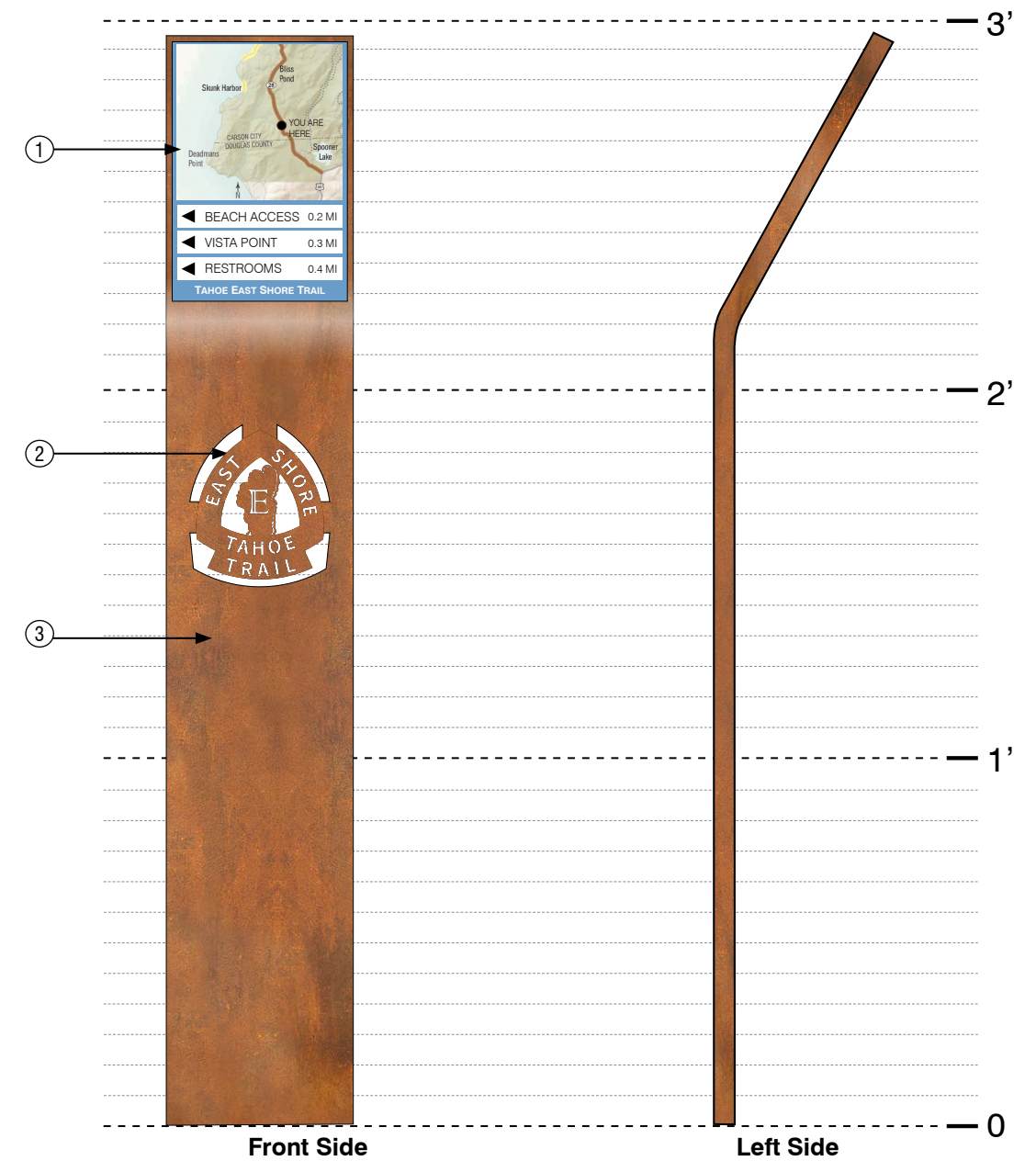
PEDESTERIAN & TRAIL SIGNS

TYPE I: PEDESTRIAN SMALL PROFILE WAYFINDING

The purpose of this sign is to mark areas of interest or wayfinding with minimal visual impact. Its intended use is for pedestrians 0 to 5 feet away.

- Sign height varies from 2.5 to 4 feet tall and 6 inches wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary, and must meet all Americans with Disabilities Act (ADA) requirements.
- Optional laser-cut logo design.

- 1. Information Panel**
 - Material/Color: 1/16" Printed Aluminum
- 2. Logo** - Laser cut into iron post
- 3. Iron Post** - Material: 1/2" thick oxidized iron.



PEDESTERIAN & TRAIL SIGNS

TYPE J: PEDESTRIAN MILE MARKER

The purpose of this sign is to mark mileage points along the trail for informational and emergency purposes. Its intended use is for pedestrians 0 to 20 feet away.

- Sign stands at 2 feet tall and 6 inches wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary, and must meet all Americans with Disabilities Act (ADA) requirements.
- Faces direction of oncoming foot or bicycle traffic on appropriate side of the trail.

1. Letters and Numbers

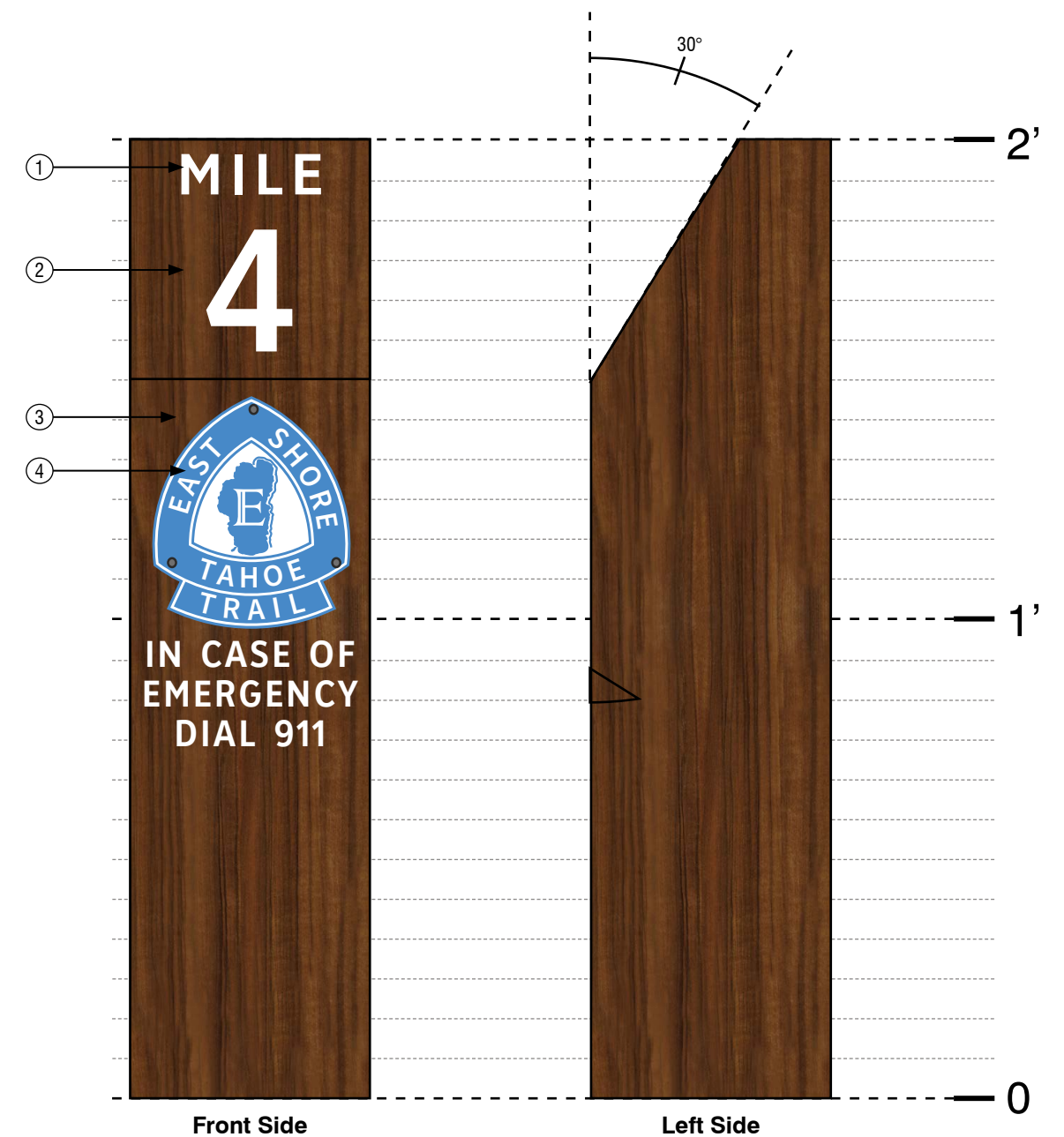
- Material/Color: White oil based paint inset in engraved lettering
- Typeface: Clearview Hwy 5W.

2. **Angled Face** of 30 degrees, starting at 6 inches below top of post.

3. **Vertical Post** - Material: 6" sq. wood beam (Douglas Fir or Western Red Cedar).

4. Emblem

- Material/Color: Painted aluminum
- Mounting: Mount with three 1/4" round bolts



PEDESTERIAN & TRAIL SIGNS

TYPE K: ALERTS

The purpose of this sign is to notify roadway users of additional features or amenities. Its intended use is for pedestrians 0 to 20 feet away.

- Sign stands at up to a maximum of 6.5 feet tall and average 12 inches wide. Dimensions are recommended maximums but height may be adjusted to suit each specific location as necessary.
- To be viewable along walkways.

1. Caps

- Material: Powder-coated aluminum.
- Color: To match PMS 469c.

2. Sign Panel(s)

- Material: 1/4" powder-coated aluminum sign panel(s) or recycled plastic with 1" radius corners.
- Color: Match to PMS 4625c.
- Finish: Clear anti-graffiti coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to backer panel with construction adhesive.

3. Letters and Arrows

- Material/Color: White reflective vinyl (or white retro reflective sheeting) copy and directional arrows.
- Typeface: Clearview Hwy 5W.

4. Vertical Support Beam - Material: 6" sq. wood beam (Douglas Fir or Western Red Cedar).

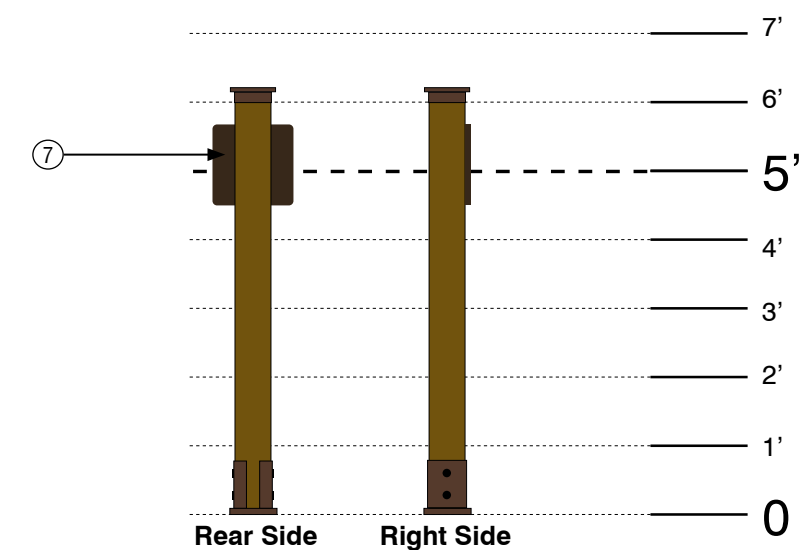
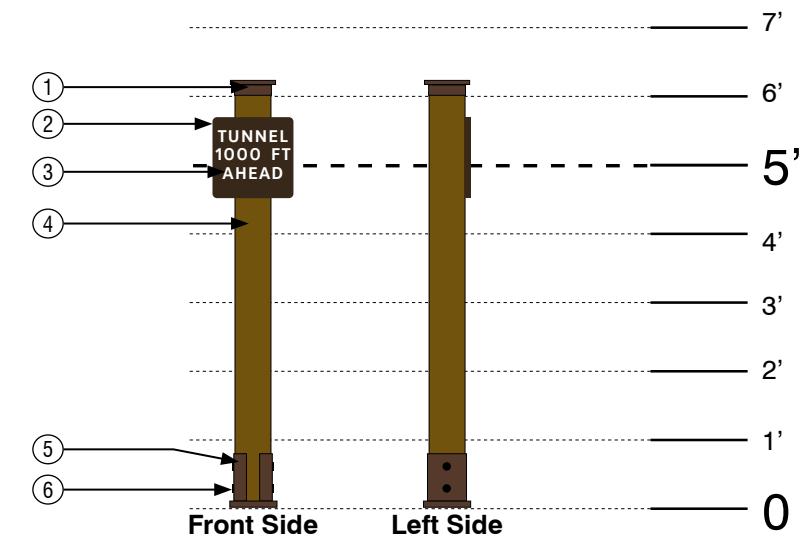
5. Support Brackets

- Material: Powder-coated metal; custom designed brackets shown; standard brackets may be specified by engineer.
- Color: Match to PMS 469c.
- Mounting: Mount to vertical support beams with standard round thru bolts.

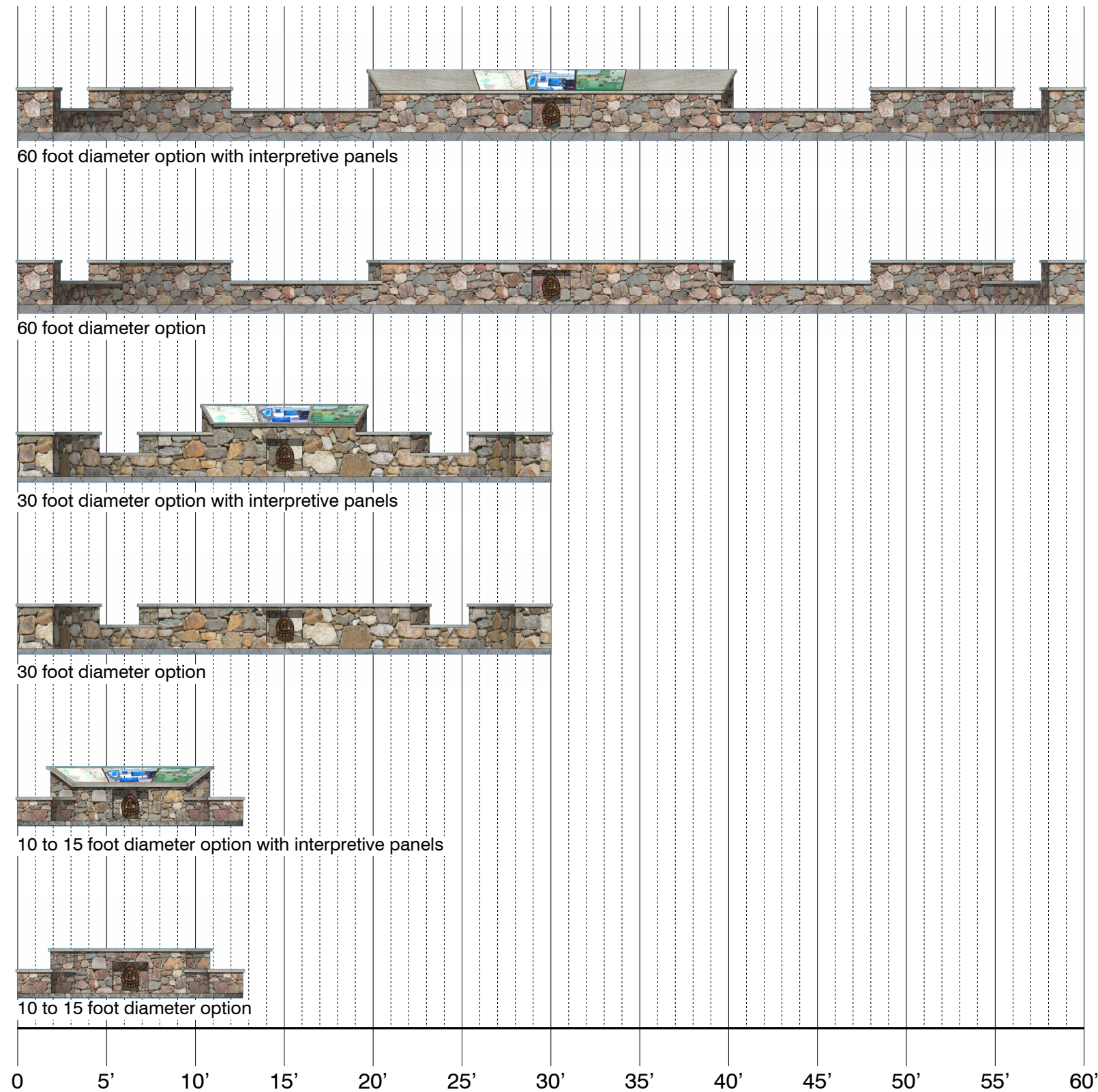
6. Bolts - Material: Powder coated round thru bolts attach support bracket to posts.

7. Sign Backer Panel

- Material: 1/4" powder-coated aluminum backer panel with 1" radius corners.
- Color: Match to PMS 4625c
- Finish: Clear Anti-Graffiti Coating 1800 Series by Ecological Coatings LLC or similar.
- Mounting: Mounts to vertical support beams with counter-sunk fasteners



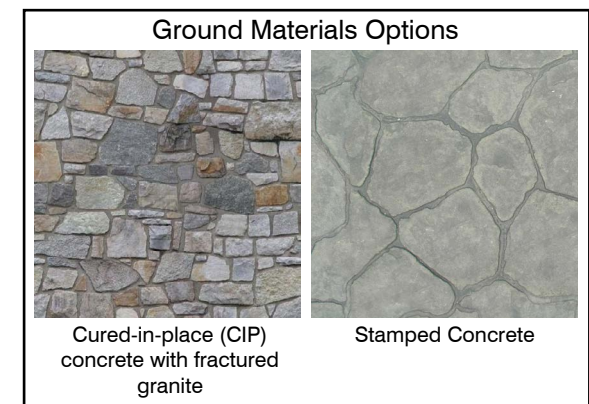
TRAIL VISTA POINTS



3D rendering of a 60 foot diameter vista point, half circle

Vista point design varies by location, size, interpretive panelling options, and terrain. Vista points have optional solid steel logos and interpretive panelling.

- Surrounding walls consist of fractured granite to match surrounding area granite
- Ground material may be fractured granite or stamped concrete, depending on vista point diameter and affected cost
- Natural granite boulder center seating in options greater than 20' diameter
- Seating available in all options, built into surrounding granite wall
- Although these renderings are shown as full/half circle, vista points should fit natural landscape and may change shape.
- Interpretive panels should be located so that the primary view is not obstructed by those reading the signs.



3D rendering of a 15 foot diameter vista point, full circle



3D rendering of a 30 foot diameter vista point, half circle



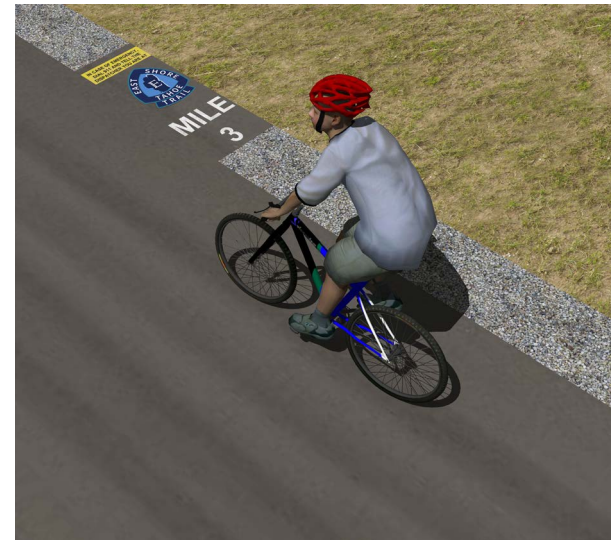
SECTION 4: ALTERNATIVE & FUTURE SIGNAGE

ALTERNATIVE SIGN TYPES

- Alternative signage should be reviewed by the appropriate agencies, and utilize materials and design criteria identified in this document.
- Informational signage, such as the Tahoe Take Care Campaign signs, should be utilized in appropriate places such as trash cans and dog waste stations and should not create sign clutter.



Example of a "Postcard" photo opportunity point



Example of an embedded mile marker with emergency information

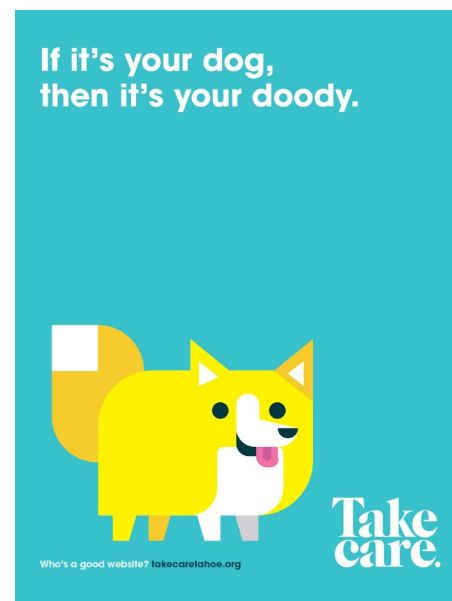
FUTURE SIGN TYPES

- Future signage proposed should be reviewed by the appropriate agencies, and meet the design standards identified in this document.
- Electronic signage and messaging boards should be reviewed by the appropriate agencies and designed to include material types consistent with the design standards of this document.



Example use of a standard sign post with future electronic sign options, from basic flashers to advanced digital displays

① Any additional hardware or metal components, such as the solar electronic power supply, should be powder coated metal, color matched to PMS 469c



Examples of a dog waste station and trash receptacle including artwork from the "Take Care Tahoe" program. (2D Artwork provided by www.takecaretahoe.org)