

Mammoth Lakes Trail System Trail & Soft Surface Signage & Wayfinding System

Design Intent Drawings for Trail & Node Signage

Mammoth Lakes Trail System

Signage and Wayfinding

FOR INTERNAL USE ONLY

CURRENT VERSION: June 30, 2024

Draft updates proposed for Section 600 of the Town of Mammoth Lakes Public Works Department's "Town Standards" last adopted and revised July 2013.

"Section 600 is a living document that is updated as necessary to ensure a consistent experience and level of service for trail users on the Mammoth Lakes Trail System while conforming to the needs and expectations of the Town of Mammoth Lakes."

- *General Purpose Statement, Section 600, "Town Standards", Town of Mammoth Lakes Public Works Department*

PRINT SIZE: 11" x 17"



PREPARED BY



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SIGN INSTALLATION PROTOCOL

(From the USFS Trail Construction & Maintenance Notebook, 2007)

Installing Signs

Trail signs are made of a variety of materials; the most typical is Carsonite or wood. Usually, signs are mounted on posts or trees. Signs in rocky areas should be mounted on a post seated in an excavated hole or supported by a well-constructed cairn.

Wooden posts may be obtained on-site or hauled in. On-site (native) material is usually less expensive, but may have a shorter useful life. Native material looks less artificial; it may be preferred in primitive settings. Purchased posts should be pressure treated. Their longer lifespan will offset the higher initial purchase and transportation costs. Round posts appear less artificial than square posts and provide more options for custom alignment of signs at trail junctions. Posts should be at least 150 millimeters (6 inches) in diameter.

Signs should be placed where they are easy to read, but far enough from the tread to leave clearance for normal traffic. Different agencies have special rules regarding signs. Make sure you're following the rules that apply to your trail. In deep snow country, try to locate the post in relatively flat surroundings to reduce the effects of snow creep, which can carry signs down the hill.

Spikes or lag screws can be used at the base of the post to improve anchoring (figure 86). Seat the post in the hole and keep it vertical while you drop a few rocks into the hole to secure it. Tamp these rocks with a rockbar or tool handle to jam them into place. Continue to place rocks and dirt in the hole, tamping as you go. Top off the hole with mounded soil to accommodate settling and to prevent water from puddling around the post.

In rocky areas or very soft soils (such as those next to a turnpike), signposts can be supported by a cairn. Horizontally placed spikes or lag screws should be used at the base for anchors. Chinking the cairn with smaller rocks helps tighten the post against the larger stones. "Anchoring Trail Markers and Signs in Rocky Areas" (Watson 2005) provides instructions for installing signposts without using heavy tools and equipment.

Signs should have holes already drilled so they can be attached to the post. Level each sign and secure it with galvanized lag screws or, better yet, through-bolts that have a bolt head and washer on one side and a washer

and nut on the other. Galvanized hardware reduces rust stains on the sign. New wood preservatives like ACQ (alkaline copper quaternary compound) are highly corrosive to aluminum and carbon steel. Use triple-dipped galvanized fasteners. Galvanized washers should be used between the head of the screw and the sign face to reduce the potential for the sign to pull over the screw. In areas where sign theft is a problem, use special theft-prevention hardware.

The bottom edge of signs should be set about 1.5 meters (60 inches) above the tread. The sign's top edge should be 50 millimeters (2 inches) below the top of the post. Where snow loads are a problem, the post can be notched and the signs seated full depth in the post. Treated posts will be susceptible to rotting where they are notched, so they should be spot treated with preservative.

Use caution when mounting signs to trees. The sign should be obvious to travelers and legible from the tread. If signs mounted on trees doesn't meet these conditions, use a post instead. Mount signs to trees with galvanized lag screws and washers, rather than spikes. That way, the sign can be loosened periodically to accommodate tree growth. Leave a gap between the sign and the tree to allow for the growth.

Installing Reassurance Markers

Reassurance markers are used only where the trail is not obvious. If the tread is obvious during the regular use season, these markers aren't needed. Reassurance markers may be helpful if a trail is hard to follow because the tread is indistinct, regularly covered with snow during part of the normal use season, or if weather conditions (such as fog) make the trail hard to distinguish at times. Reassurance markers also are helpful at junctions with non-system (informal) trails, or where multiple trails cause confusion.

Place reassurance markers carefully. They should be clearly visible from any point where the trail could be lost. This is a judgment call, often controversial, based on the challenge level served by the trail and the conditions along it. Higher challenge trails need fewer markers; lower challenge trails may need more.

Each marker location should be flagged before installation and checked for visibility in the desired direction of travel. Each location should be marked in both directions (on both sides of the same tree) so there is no question whether or not the marker is official. The marking decisions should be based on traffic traveling in both directions. Be conservative with markers. It's better to improve tread visibility than to rely on

markers, except on high-challenge trails where tread frequently may not be visible at all.

The classic reassurance marker is a blaze cut on a tree. The standard Forest Service blazes should always be used to differentiate it from the free-form blazes and antler rubbings that appear on non-system trails (figure 87). Cut blazes carefully because a mistake can't be repaired. If a blaze is consistently buried by snow during part of the use season, the blaze can be cut higher on the tree, but not so high that it becomes difficult to locate from the tread. Cut blazes may, on rare occasions, need to be freshened—recut them carefully.

Blazes are no longer cut on trees in many parts of the country. Check with your local trail manager to learn what's appropriate. Policies vary across the Nation.

Different types of blazes may be used on some specially designated trails, such as the Appalachian Trail. Blazers (sometimes called marker tags) are used when higher visibility is desired and aesthetic considerations are not critical. The most common tags are colored diamonds of plastic or metal, reflective for night use or non-reflective when called for in the trail management plan. Various colors are used. These tags should be mounted on trees using aluminum nails. Allow 12 millimeters (½ inch) or so behind the tag for additional tree growth. Directional arrows, where appropriate, should be placed in a similar fashion. Markers also can be mounted on wooden or fiberglass posts.

Blazers should be checked for continued usefulness. If the tread is more obvious than when these markers were originally installed, consider removing some. If folks are getting lost, restore more visible tread, move existing blazers to more visible locations, or add a few more where they will be most effective. Remove all signs and blazers that don't fit the plan for the area.

Painted blazes are sometimes used. Be absolutely sure to use a template of a size and color specified in your trail management plan. Don't let just anyone start painting blazes.

Sign Plans

The number and types of signs and reassurance markers should be detailed in a sign plan for the area you are working in. Consistent with the plan, signs and markers should be esthetically appropriate, visible, in useful locations, and well maintained. Install no more signs than necessary.

MOUNTING SPECIFICATIONS FOR TYPE 9a, 9b, 9c: SINGLE-SIDED / MATCHING DOUBLE-SIDED / MISMATCHING DOUBLE-SIDED / 90 DEGREE OFFSET / FEATURE ID / REASSURANCE ARROW

SIGN PURPOSE

9a: Single-Sided, Matching Double-Sided, Mismatching Double-Sided, 90 Degree Offset

Trail Directional signs within the MLTS are installed to assist visitors in navigating all trail system intersections where necessary.

9b: Feature ID

Feature ID signs within the MLTS are installed to identify significant natural destinations and points of interest.

9c: Reassurance Arrow

Reassurance Arrow signs within the MLTS are installed to assist visitors in staying on route at locations where trail braiding, sucker trails, or unofficial user trails intersect with sanctioned trails potentially throwing users off track.

BASIC INFORMATION

Sign Material

HDPE Plastic with 1" routed letters. HDPE plastic sheets have a 1/8" top and bottom layer, and a 1/2" middle core layer, providing a consolidated 3/4" panel. Beige-Brown color type (beige on both exterior sides, dark brown core layer).
Standard USFS vendor = Wood Product Signs

Shape

Rectangular (non-wilderness shape).

Post Material

Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

Post Symbols

MLTS logo, USFS logo & QR code.

INSTALLATION

Minimum Mounting Height

4 feet from trail tread to bottom of sign.

Minimum Lateral Distance

3 feet from the edge of trail tread to nearest edge of sign.

Installation Procedure

Installed in a hole dug 20-24 inches deep. Packed with rocks and dirt, tamping each layer as you go to secure the anchor bolt at the bottom of the post in the ground. Use a level to ensure a plumb and level sign installation. Top off the hole with mounded soil to accommodate settling and prevent water from puddling around the post. Scatter pine needles, sticks, and top soil from areas near the sign to disguise the installation. In rocky areas or areas with soft soils, posts can be supported by a rock cairn. Use smaller stones and rocks between the larger stones to help tighten and secure the post in place.

GALVANIZED HARDWARE INFO.

Sign Attachment Hardware

- (2) 3/8" X 5" long Carriage Bolts
- (2) 3/8" Flat Washers
- (2) 3/8" Locking Washers
- (2) 3/8" Nuts

Hardware Installation Order

1. 3/8" X 5" long Carriage Bolt (front of sign)
2. 3/8" Flat Washer (back of sign)
3. 3/8" Locking Washer (back of sign)
4. 3/8" Nut (back of sign)

Anchor Bolt Hardware

- (1) 3/8" X 10" long Carriage Bolts (2) 3/8" Nuts

Logo Attachment Hardware

- (5) Size 4 X 3/4" long Flat Head Philips Wood Screws

Routing Specifications

1/16" inset and an 1/16" gap around each logo and QR code.

Graphic File Type for CNC Machine

DFX

DOUBLE SIDED SIGN VARIATIONS

Matching Double Sided Sign

Equal number of lines for each sign (ex: 2 line sign with a 2 line sign).

Mismatching Double Sided Sign

The number of lines for each sign are not equal (ex: 2 line sign with a 5 line sign).

90 Degree Offset Double Sided Sign

Used at unusual intersections where one sign is installed in the normal position and the other is installed 1" underneath and a quarter turn (90 degrees) from the original sign.

SYSTEM SYMBOLS

The fabricator will be provided with scalable electronic artwork for all symbols in a vector art (outlined) format.

Symbols sourced from National Park Service, Hapers Ferry



Downhill Skiing



Snowmobiling



Cross Country Skiing



Snowshoeing



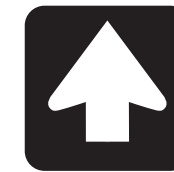
Winter Recreation



Fat Biking



Walking



Directional



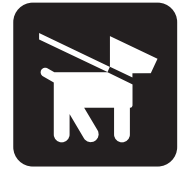
Bike Repair



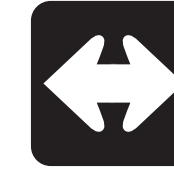
Cycling



E-Bike



Dogs on leash



Directional

MLTS POST BRANDS



MLTS POST LOGO



MLTS POST QR CODE
(Font: Century Gothic)



USFS POST LOGO

SOFT SURFACE TRAIL ETIQUETTE SYMBOLS (these are integrated into signage and do not exist on their own)



Right of Way Winter General (non-motorized)



Right of Way Winter General (motorized)



Right of Way Summer General (non-motorized)



Shady Rest Groomed Trails Winter



Sherwins Winter Access



Regulatory Strips Multi-Use Soft-Surface Trail BIKES OK NO E-BIKES



Regulatory Strips Multi-Use Soft-Surface Trail NO BIKES

SYSTEM LOGOS

(Please See MLTS Brand Guideline for specifications of MLTS logo usage)



Mammoth Lakes Trail System



Mammoth Lakes Trail System



Measure R

Sheet Description

Graphic Standards

Scale

n.t.s.
For visual reference only

Color Code

- ⑬ Orange Diamond Blaze (motorized)
Pantone: 166 C
RGB: 227, 82, 5
CMYK: 0, 64, 98, 11
HTML: E35205
- ⑭ Dark Blue Diamond Blaze, (groomed)
Pantone: Process Blue C
RGB: 0, 133, 202
CMYK: 100, 13, 1, 2
HTML: 0085CA
- ⑮ Light Blue Diamond Blaze, (ungroomed)
Pantone Coated: 603 C
RGB: 119, 197, 213
CMYK: 48, 0, 10, 0
HTML: 77C5D5

Design elements of the Soft Surface Trail Signage program overlap with the Hard Surface (Pathways) design standards and the Mammoth Lakes Trail System brand guidelines. Please reference as necessary.

Date Description

06.30.24 MLTPA Document

Prepared by



Soft Surface Sign Type Array

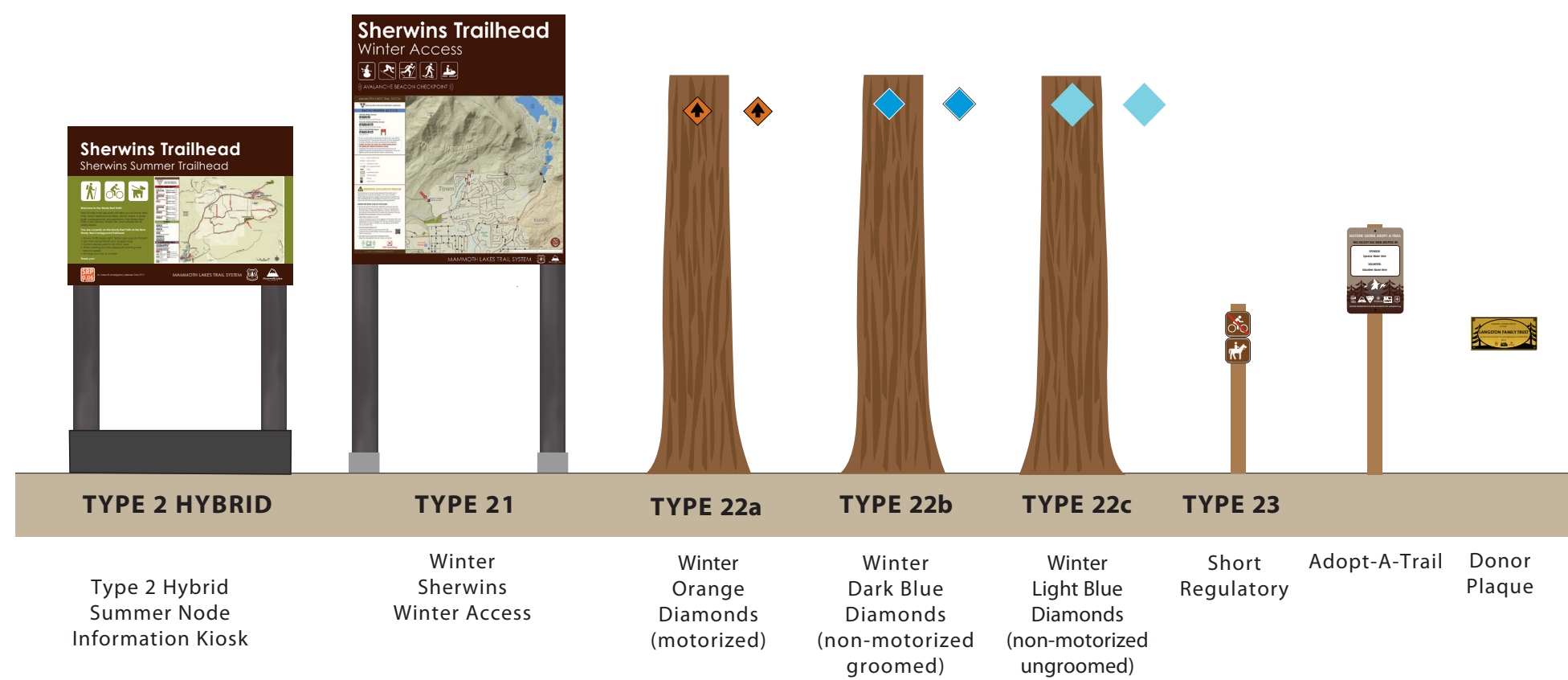
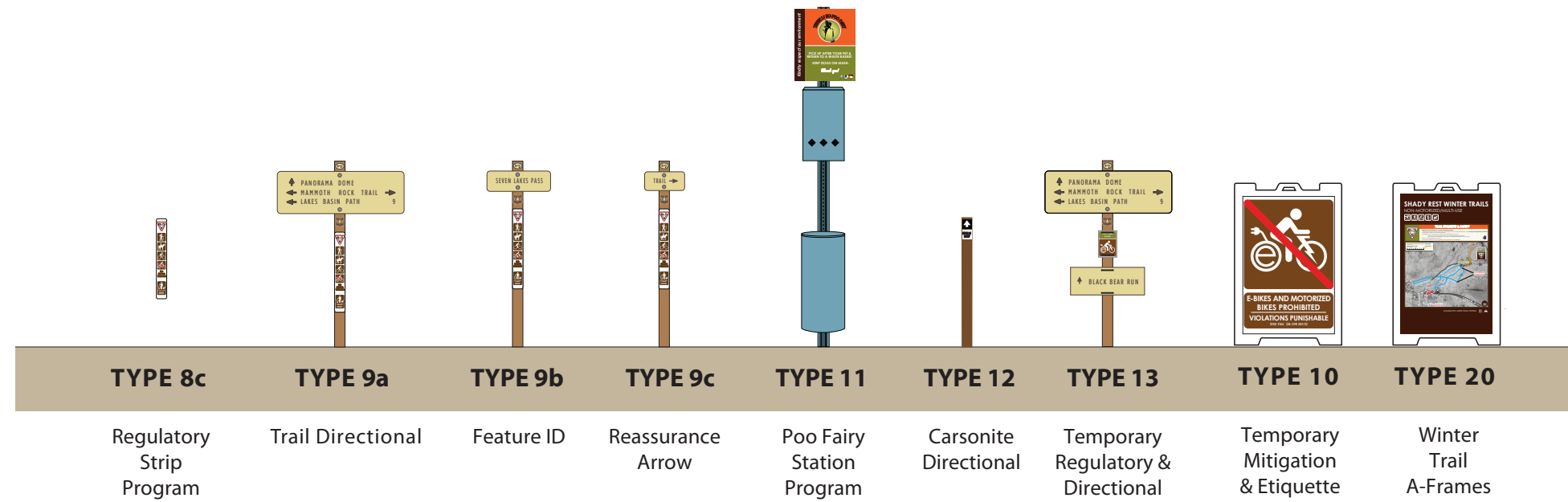
Scale

n.t.s.
For visual reference only

Color Code

- ⑬ **Orange Diamond Blaze (motorized)**
Pantone: 166 C
RGB: 227, 82, 5
CMYK: 0, 64, 98, 11
HTML: E35205
- ⑭ **Dark Blue Diamond Blaze, (groomed)**
Pantone: Process Blue C
RGB: 0, 133, 202
CMYK: 100, 13, 1, 2
HTML: 0085CA
- ⑮ **Light Blue Diamond Blaze, (ungroomed)**
Pantone Coated: 603 C
RGB: 119, 197, 213
CMYK: 48, 0, 10, 0
HTML: 77C5D5

Design elements of the Soft Surface Trail Signage program overlap with the Hard Surface (Pathways) design standards and the Mammoth Lakes Trail System brand guidelines. Please reference as necessary.



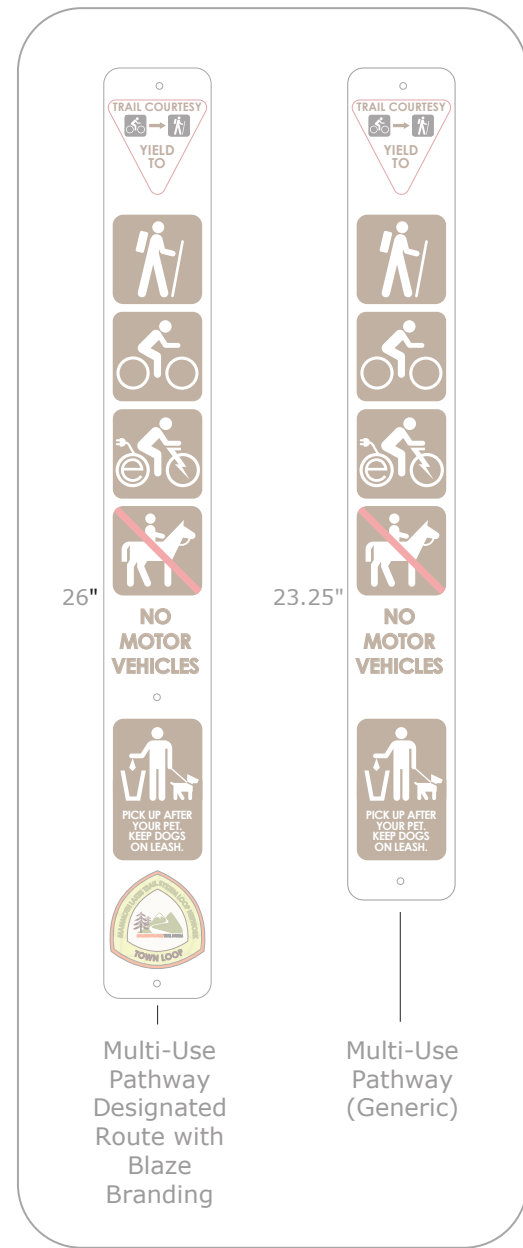
Date Description

06.30.24 MLTPA Document

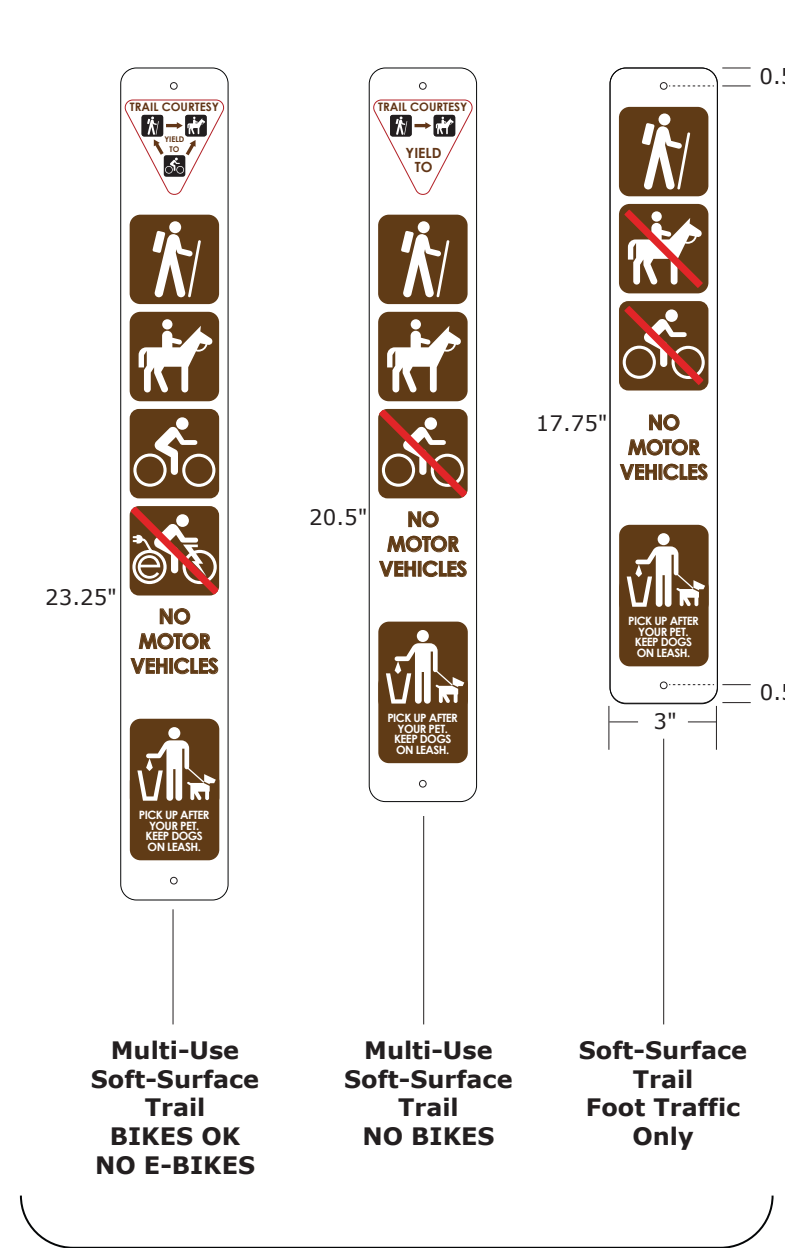
Prepared by



REGULATORY STRIP ARRAY



(For Hard-Surface Pathways)



For Soft-Surface Trails

THE MLTS REGULATORY STRIP PROGRAM IS USED ACROSS BOTH MULTI-USE PATHWAYS AND SOFT-SURFACE TRAILS

MASTER GRAPHIC FILES MAINTAINED BY MLTPA

FONTS
Century Gothic

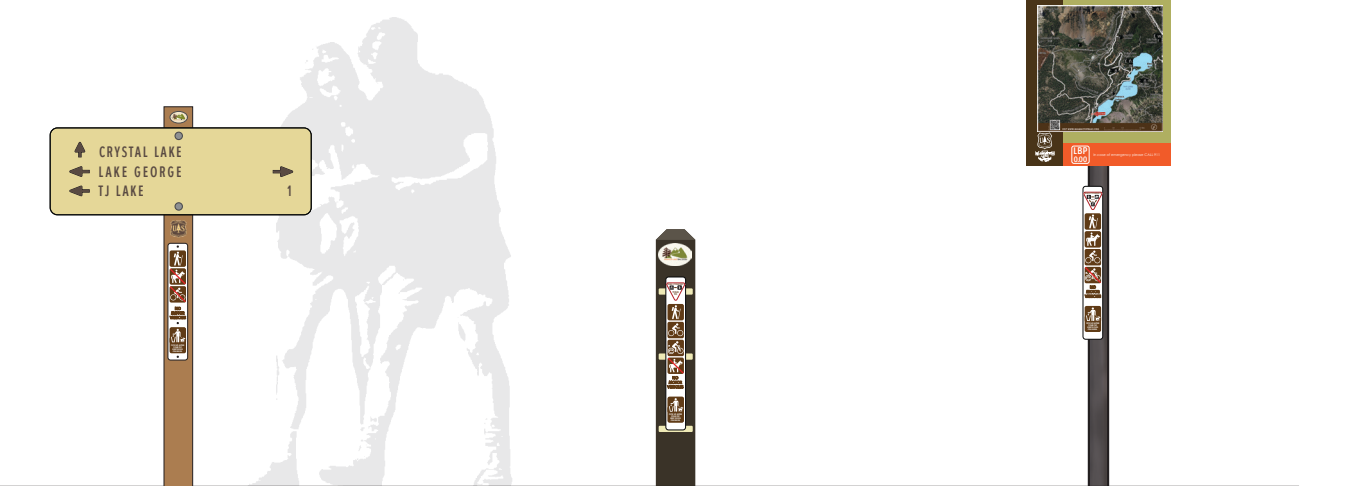
FINISH AND GRAPHICS
0.080" aluminum with print decals.
Hole diameter 0.1875" (3/16")

VERTICAL POSTS
Bollards.
Type 4, 4/6, 6 metal posts.
Type 9A (trail) wooden 4x4" posts.

INSTALLATION
Directly screw into wooden posts and bollards. Use zip ties for metal posts.

HARDWARE
Tamper Resistant Screw: #8-32
Thread Size, 1/2 in Lg, Steel.

Sign Panel mounting hardware needs confirmation



On Type 9A Wooden Post (On Soft-Surface Trails)

On Bollard (On Pathways)

On Type 4/6 Metal Post (On Pathways & Soft Surface Trails)

Sheet Description

TYPE 8c
Regulatory
Regulatory Strip Program

Scale
n.t.s.
For visual reference only

Notes

LOCATION
Regulatory Strips are used on Soft Surface trail signs at access points, trail heads or places where allowed trail use changes. They are not required on every Soft Surface sign in the field.

Date	Description
06.30.24	MLTPA Document

Prepared by



TYPE 9a

Trail Directional

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Sign Material: HDPE Plastic with 1" letters. Beige-Brown.
Shape: Rectangular
Post Symbols: MLTS Logo, USFS Logo & QR code.
Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

INSTALLATION

Minimum Mounting Height: 4 feet from trail tread to bottom of sign.

Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

SIGN PURPOSE

Trail Directional signs within the MLTS function as a primary trail guide and are located at key intersections or decision points along non-wilderness MLTS soft surface trails.

Date Description

06.30.24 MLTPA Document

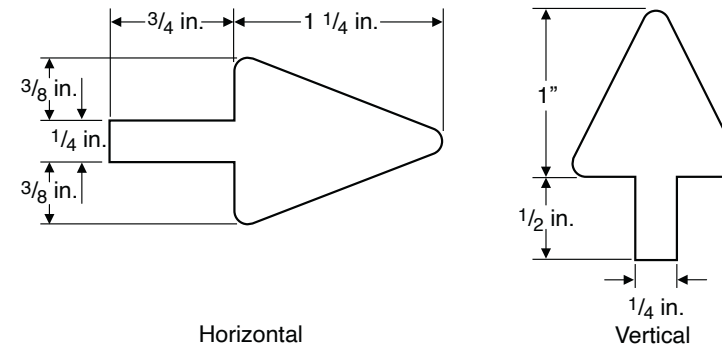
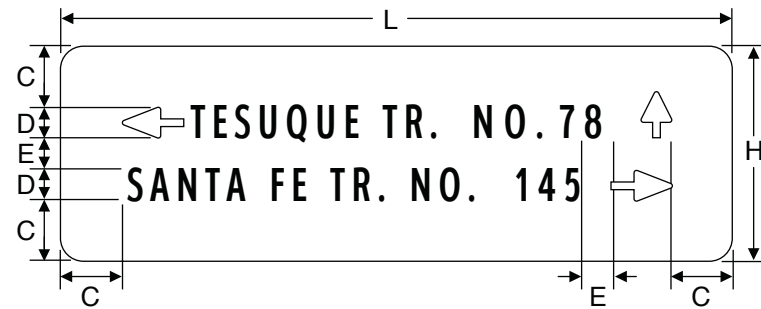
Prepared by



Text layout dimensions (inches)

Sign number	H	L	C	D* text	E
TD-1	5	Varies	2	1	1
TD-2	7	Varies	2	1	1
TD-3	9	Varies	2	1	1
TD-4	11	Varies	2	1	1
TD-5	13	Varies	2	1	1

*Dimension D, text size, refers to ASA series C letters



References

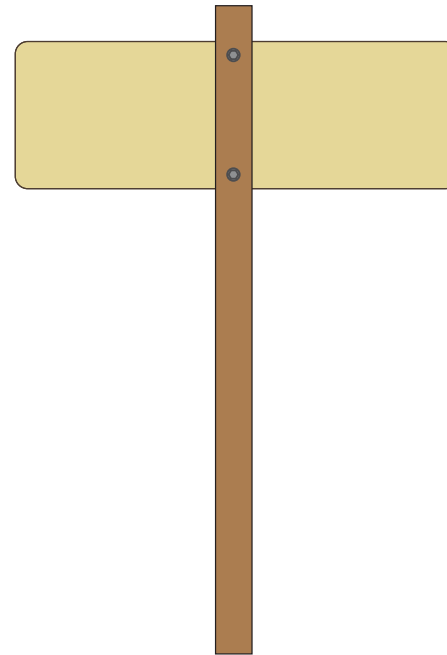
For sign guidelines, see chapter 5.
 For panel construction, see chapter 14.

Diagrams and text layout dimensions from Chapter 5B-1 "Trail Destination Signs (TD)" from the "Sign and Poster Guidelines for the Forest Service" (2013).

RIGHT SIDE



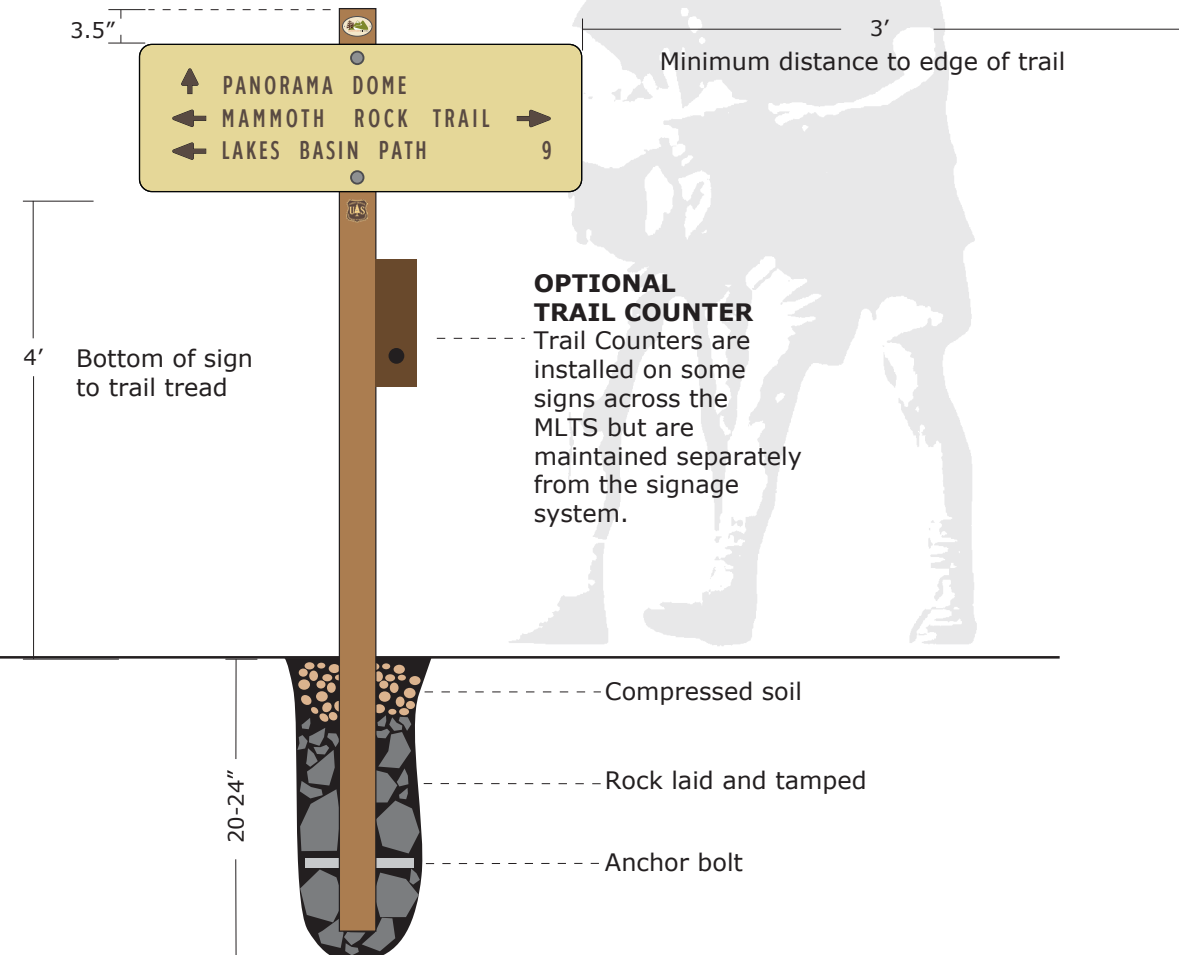
BACK



LEFT SIDE



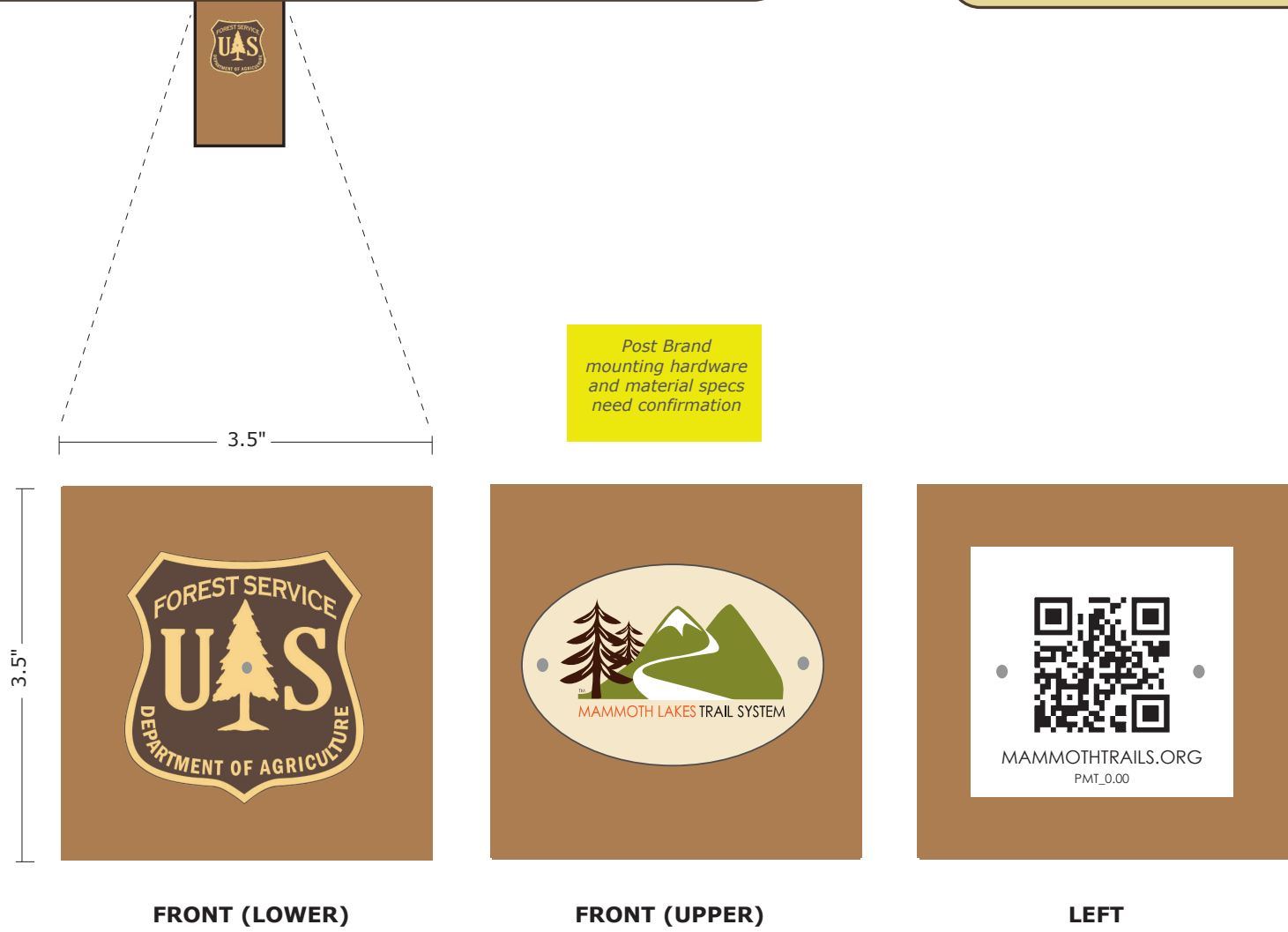
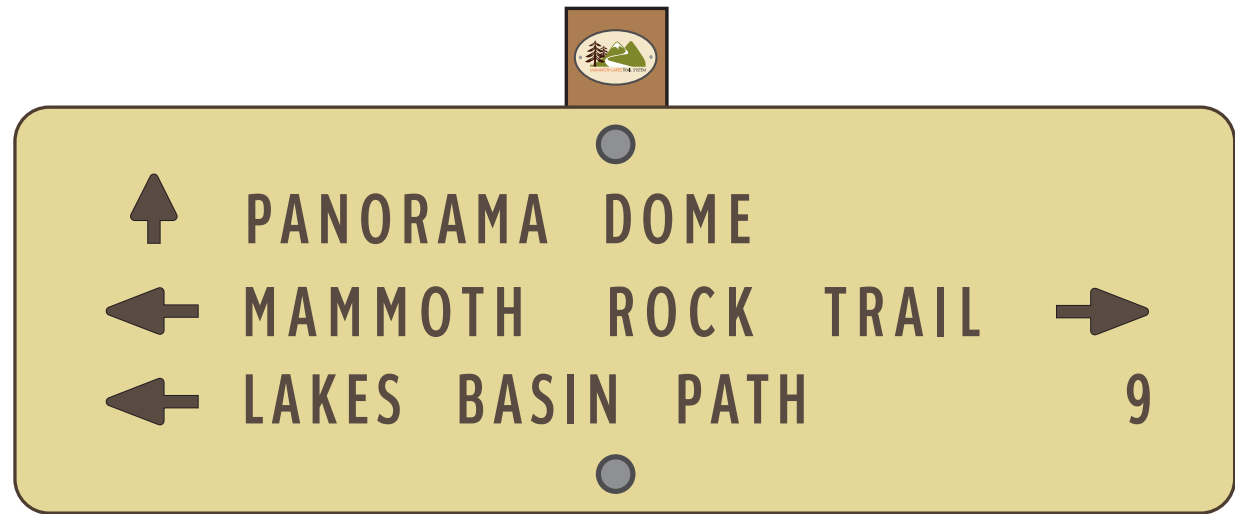
FRONT



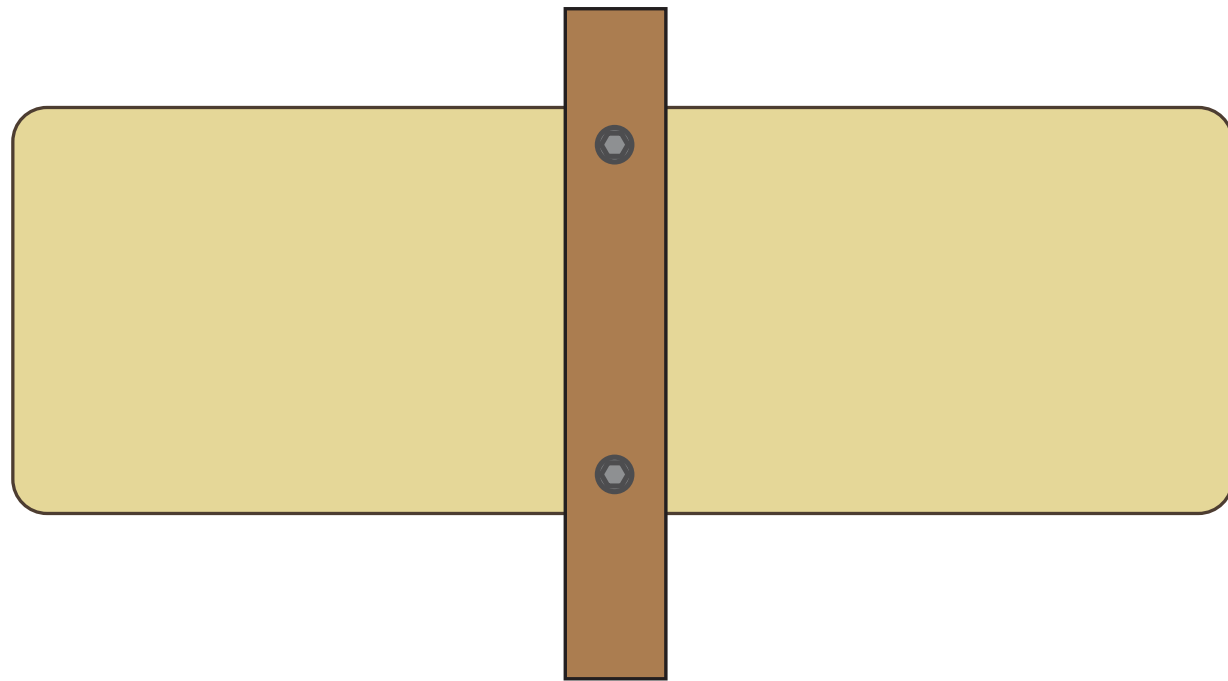
OPTIONAL TRAIL COUNTER

Trail Counters are installed on some signs across the MLTS but are maintained separately from the signage system.

FRONT
QR CODE, USFS and MLTS logo on post

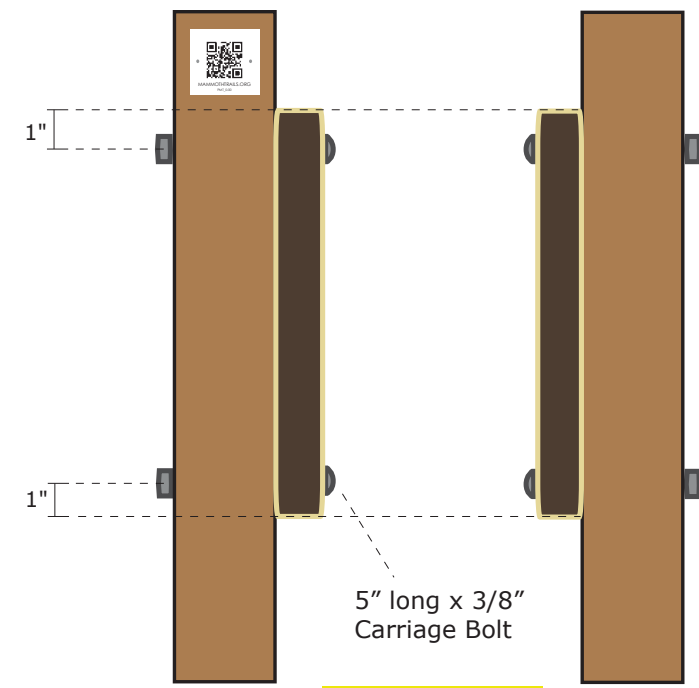


BACK
Blank



LEFT
QR code

RIGHT
Blank



Sheet Description

TYPE 9a

Trail Directional
(detail)

Scale

n.t.s.
For visual reference only

Notes

POST BRANDS

Brand Material

Option 1:

1/8"-1/4" plexiglass cut to shape. Post must be routed to shapes so that they are flush with post surface once installed

Brand Material

Option 2:

Weather proof sheet metal cut to shape. Flat metal does not require post router.

BRAND INSTALLATION

The MLTS Logo and QR code both require two small screws on the left and right. The USFS Logo requires one small screw centered in tree.

MAMMOTHTRAILS.ORG

QR codes are specific to each individual sign and link out to specific pages on MammothTrails.org with information about the location and surroundings.

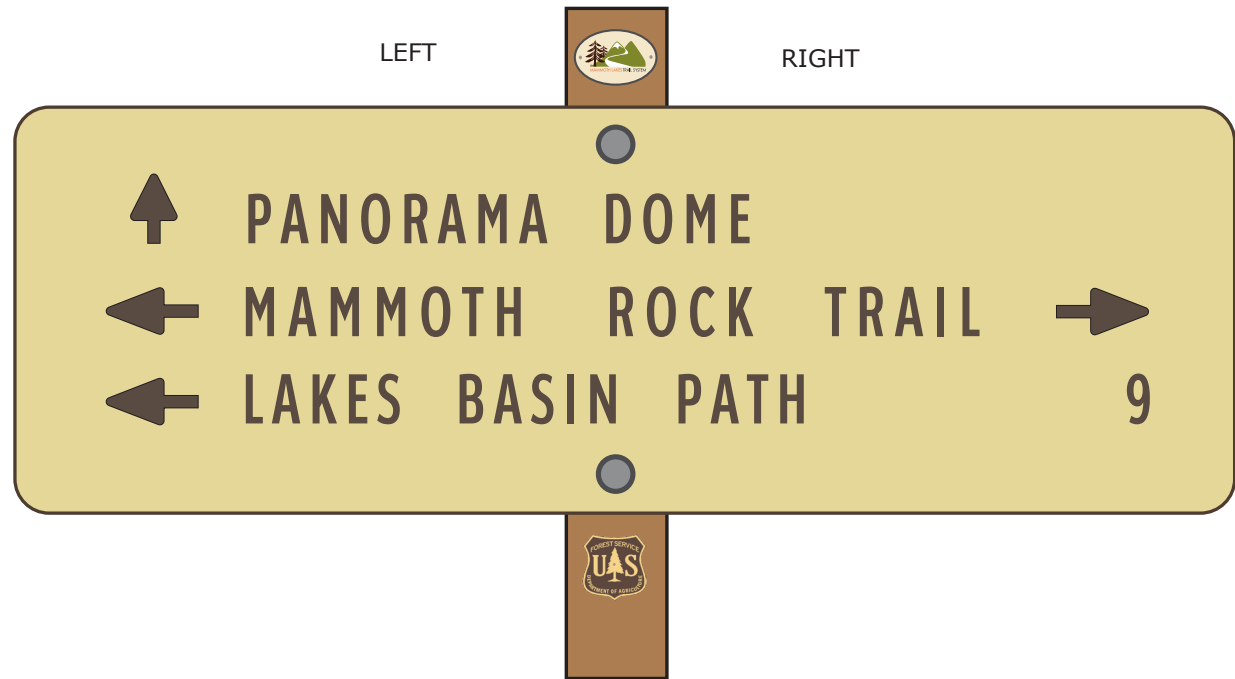
Date Description

06.30.24 MLTPA Document

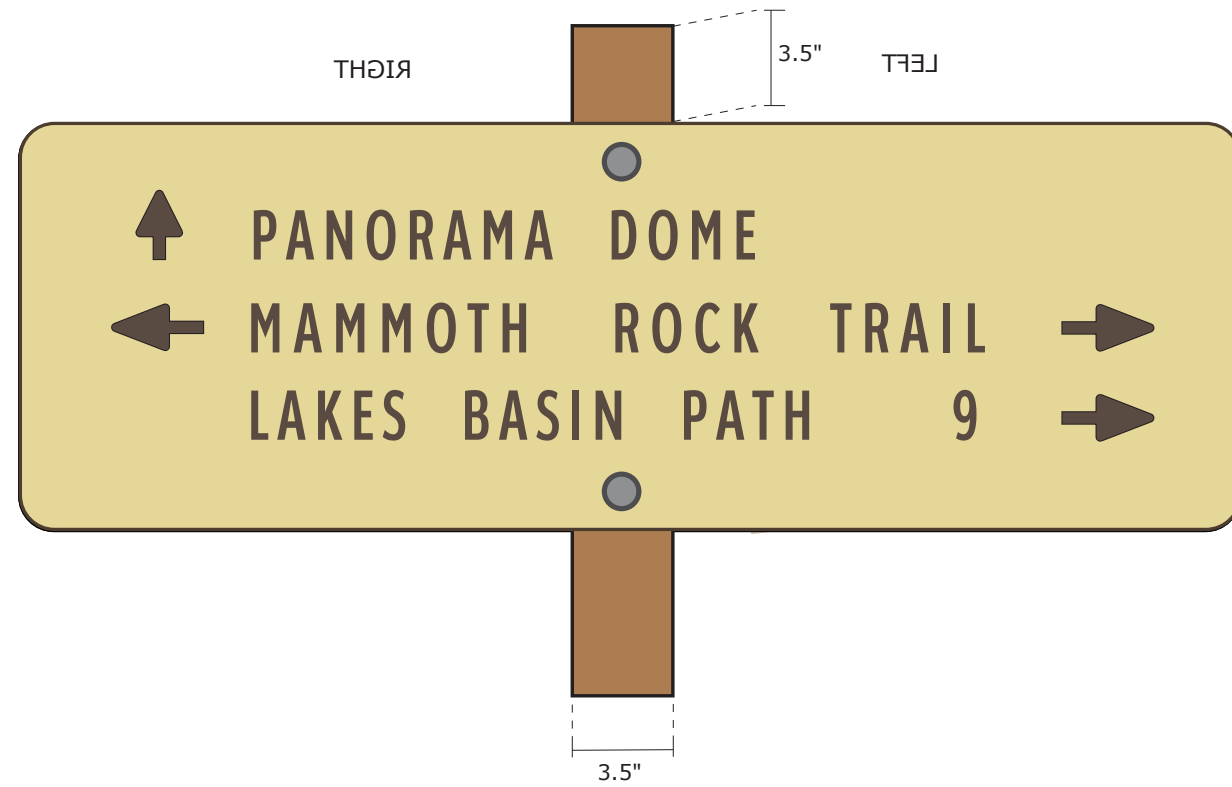
Prepared by



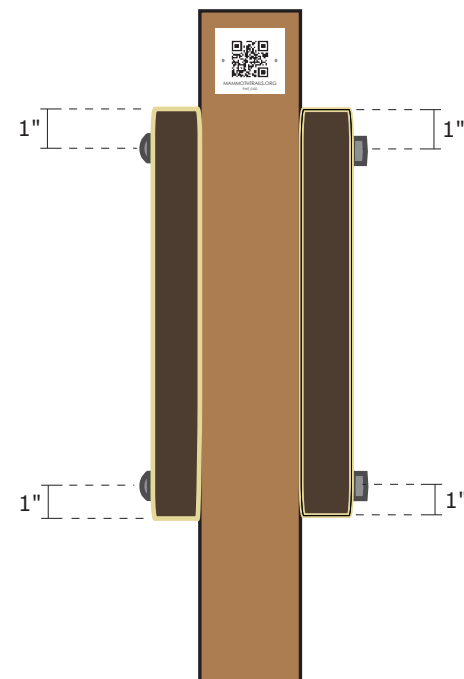
FRONT
QR CODE, USFS and MLTS logo on post



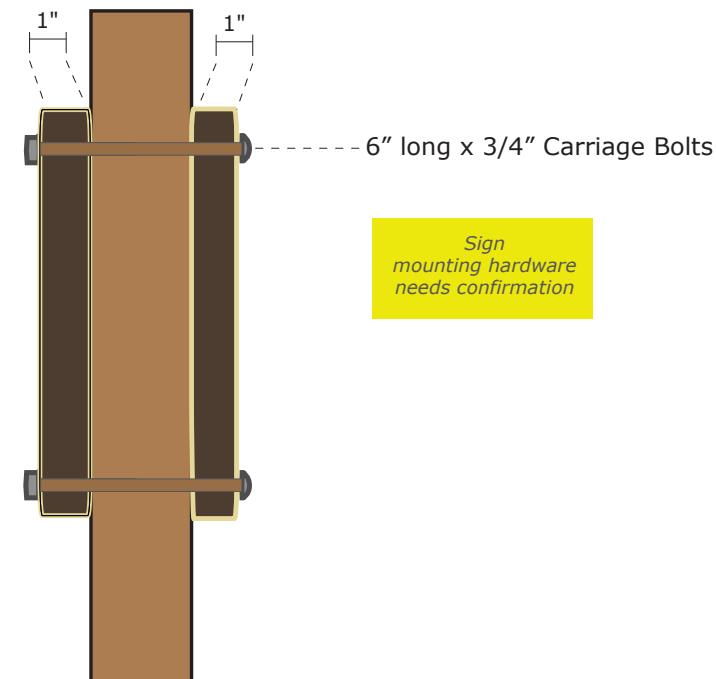
BACK



LEFT
QR code



RIGHT (Cross Section)
Blank



Sheet Description

TYPE 9a

Trail Directional
Matching Double Sided
(detail)

Scale

n.t.s.
For visual reference only

Notes

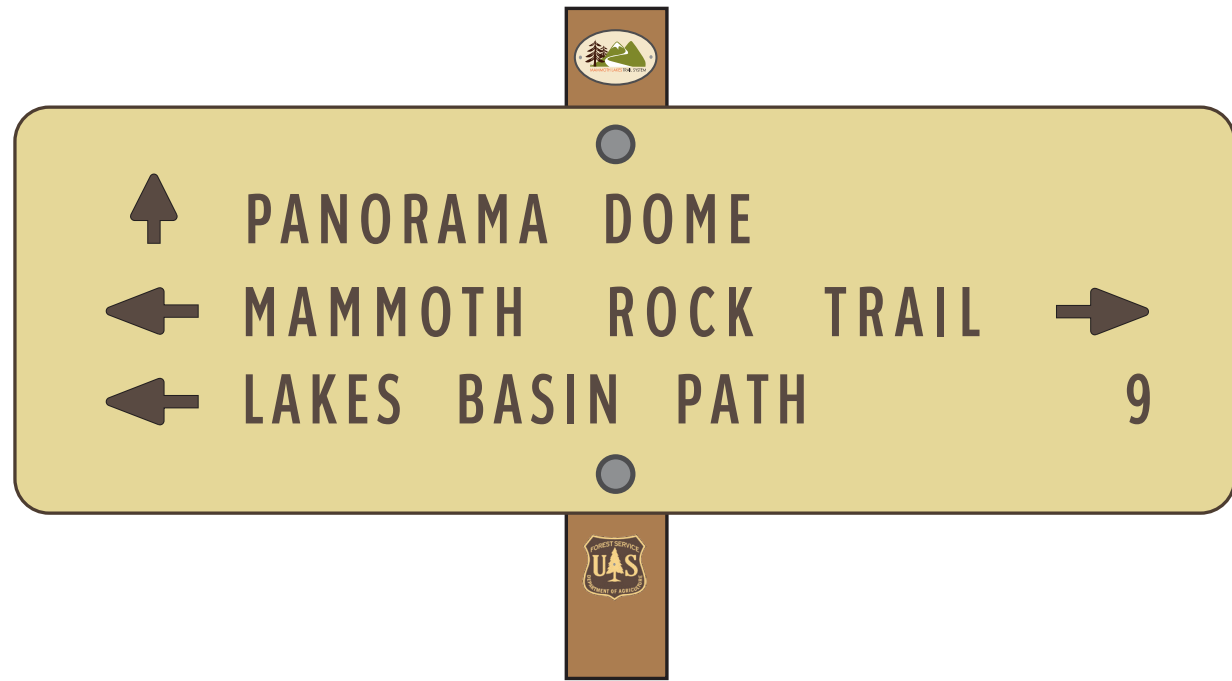
Date Description

06.30.24 MLTPA Document

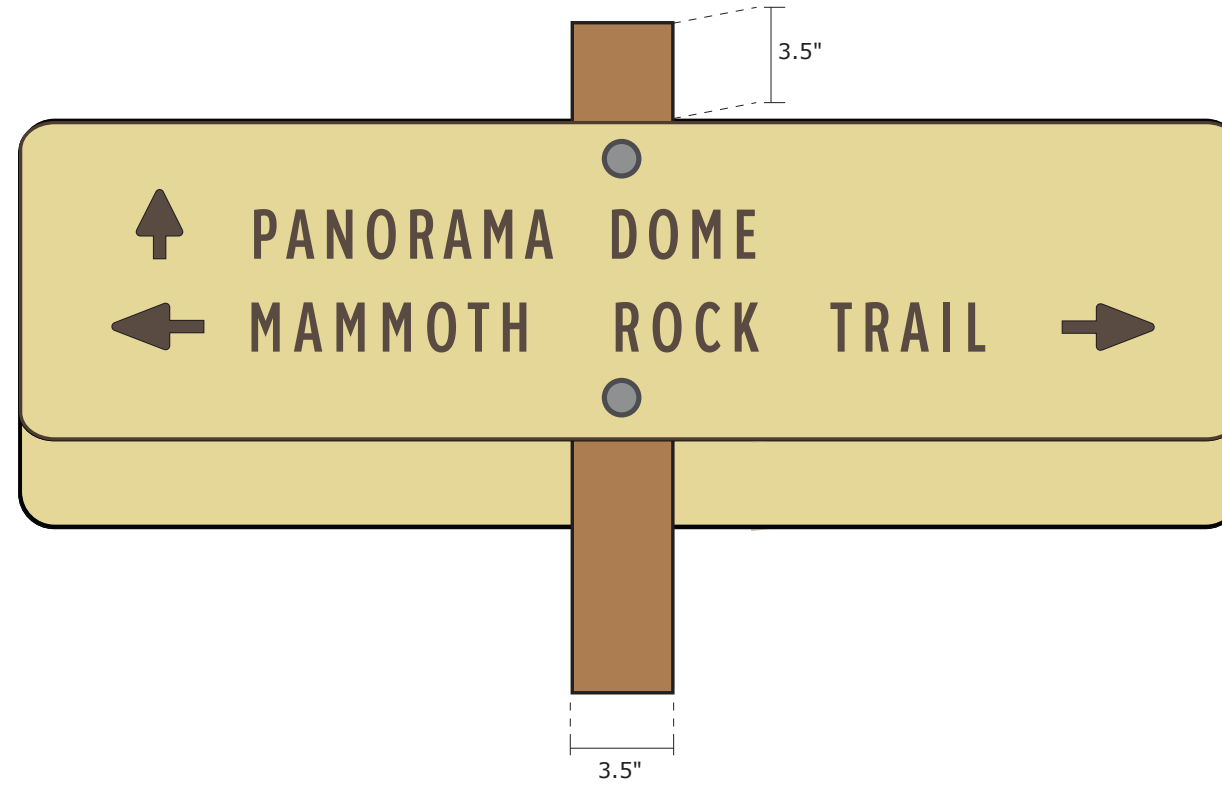
Prepared by



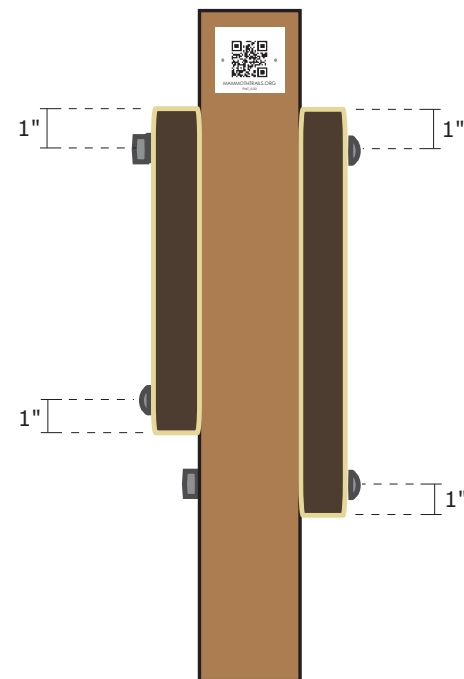
FRONT
QR CODE, USFS and MLTS logo on post



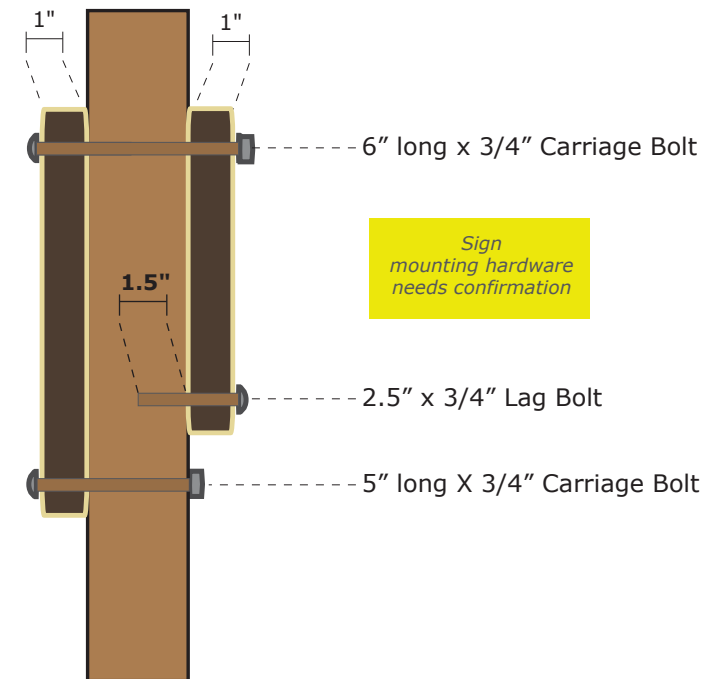
BACK



LEFT
QR code



RIGHT (Cross Section)
Blank



Sheet Description

TYPE 9a

Trail Directional
Mismatching Double Sided
(detail)

Scale

n.t.s.
For visual reference only

Notes

Date Description

06.30.24 MLTPA Document

Prepared by



TYPE 9a

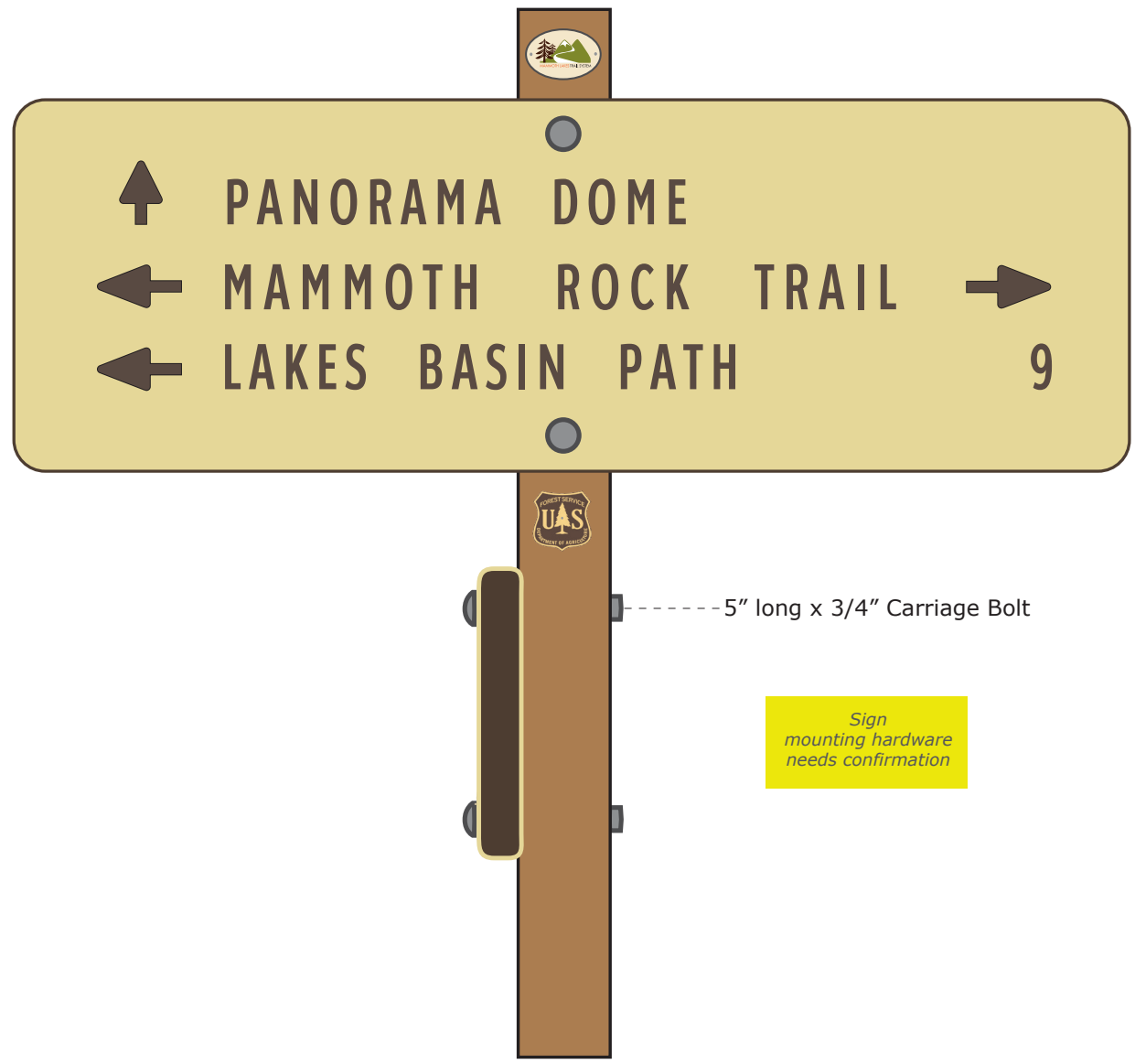
Trail Directional
90 Degree Offset
(detail)

Scale

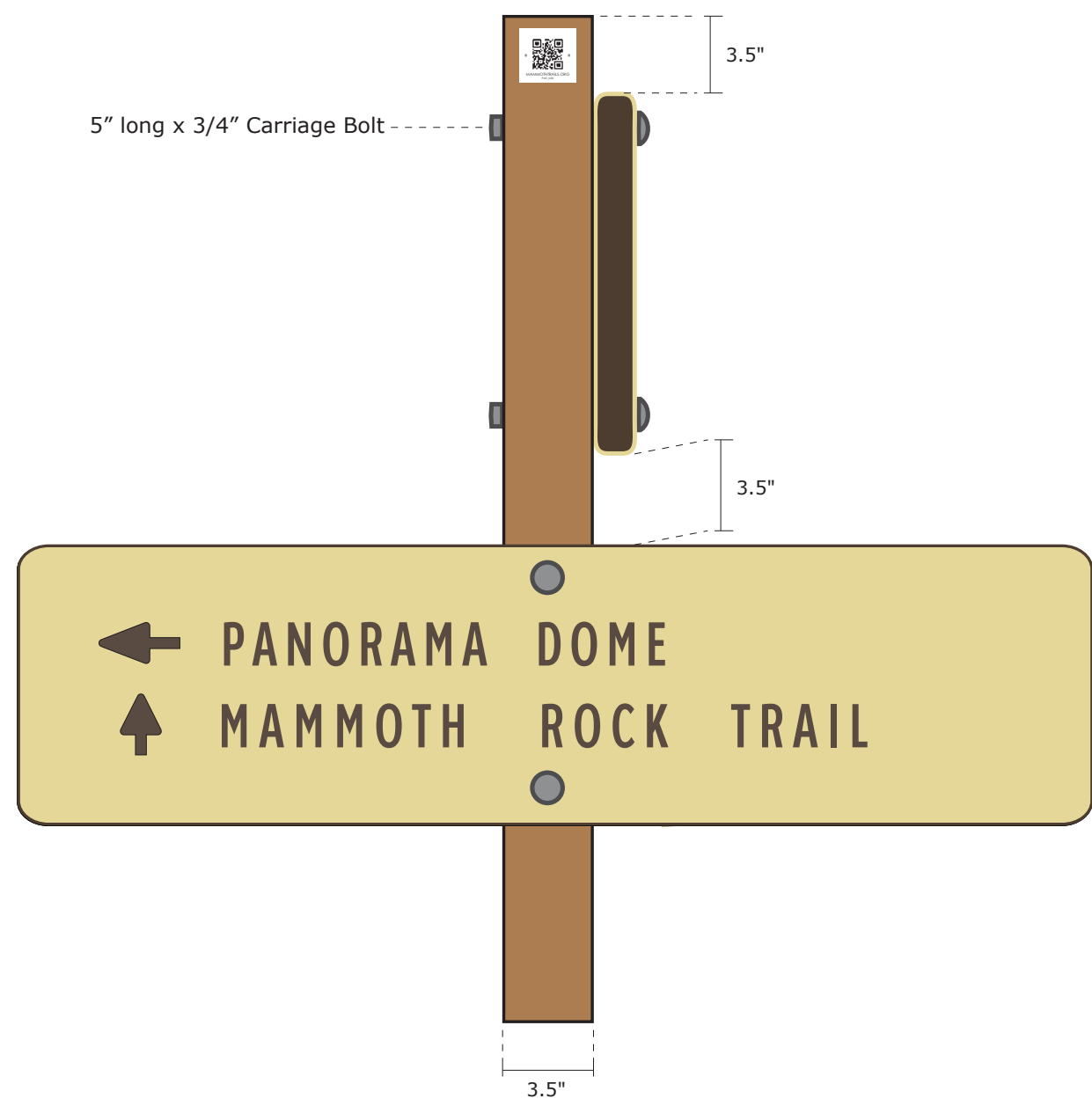
n.t.s.
For visual reference only

Notes

FRONT
QR CODE, USFS and MLTS logo on post



LEFT (example)



Date Description

06.30.24 MLTPA Document

Prepared by



TYPE 9b

Feature ID

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Sign Material: HDPE Plastic with 1" letters. Beige-Brown.
Shape: Rectangular
Post Symbols: MLTS Logo, USFS Logo & QR code.
Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

INSTALLATION

Minimum Mounting Height: 4 feet from trail tread to bottom of sign.
Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

SIGN PURPOSE

Feature ID signs provide feature identification of special non-wilderness features or destinations along MLTS soft surface trails. Feature ID signage should not be used in wilderness.

Date	Description
06.30.24	MLTPA Document

Prepared by



SEVEN LAKES POINT

Feature or destination name only



Feature name and route and destination information

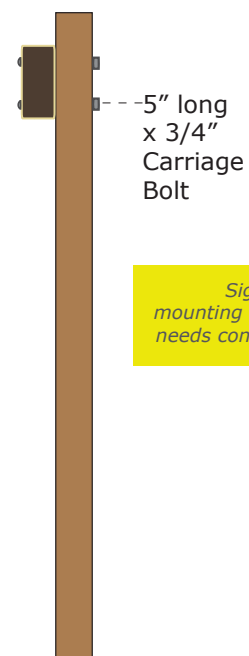
Text layout dimensions (inches)

Sign number	H	L	C	D* text	E
TD-1	5	Varies	2	1	1
TD-2	7	Varies	2	1	1
TD-3	9	Varies	2	1	1
TD-4	11	Varies	2	1	1
TD-5	13	Varies	2	1	1

*Dimension D, text size, refers to ASA series C letters

Diagram and text layout dimensions from Chapter 5-9 "Trail Signing" from the "Sign and Poster Guidelines for the Forest Service" (2013).

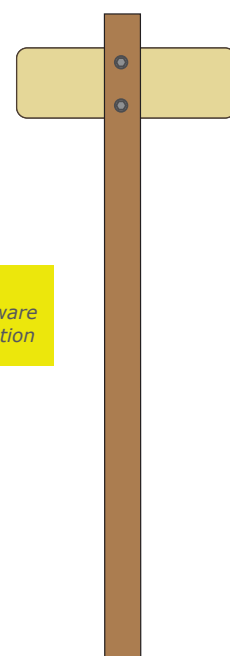
RIGHT SIDE



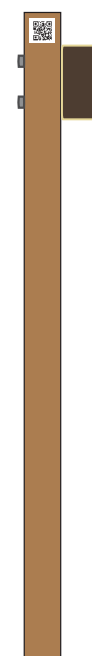
5" long x 3/4" Carriage Bolt

Sign mounting hardware needs confirmation

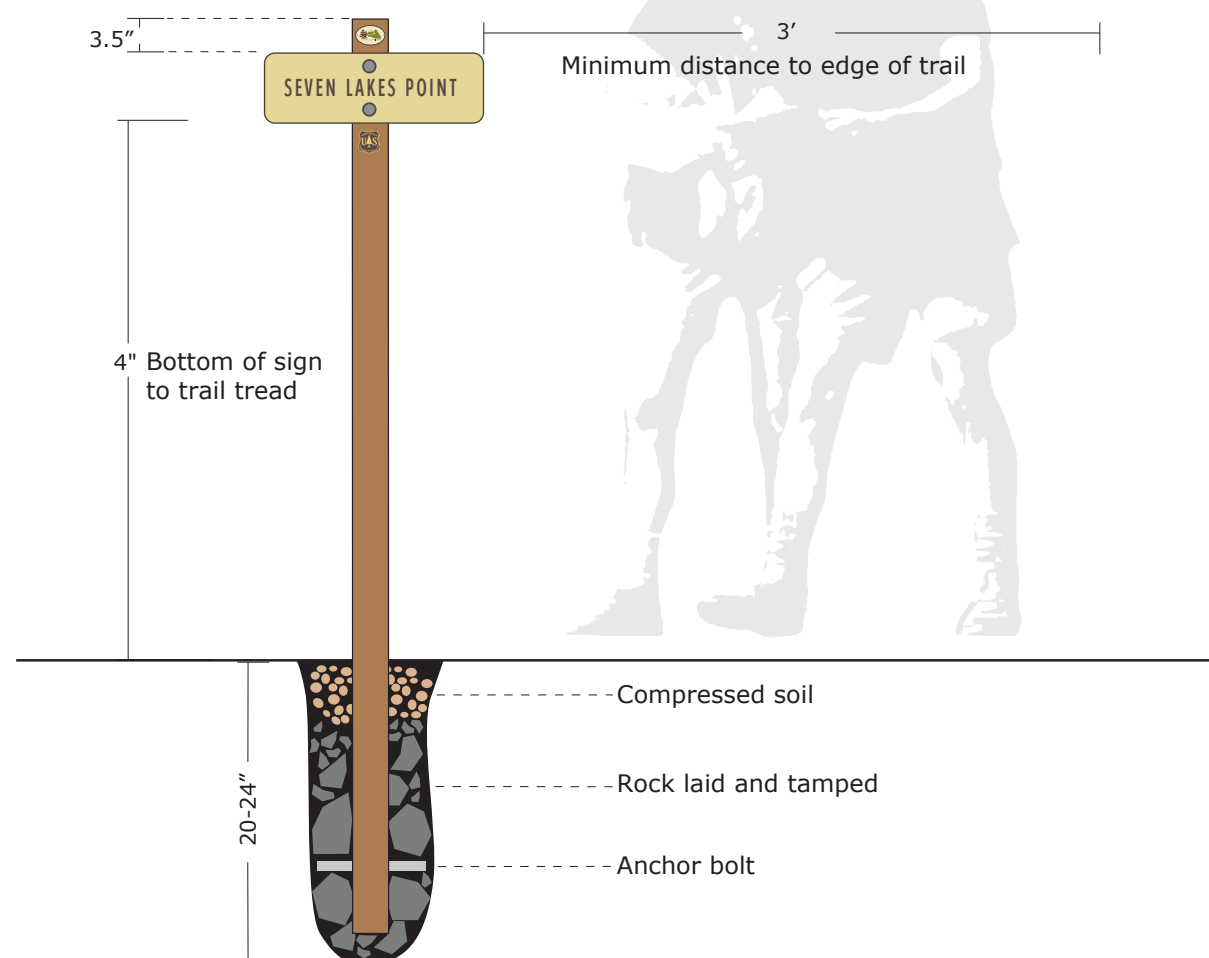
BACK



LEFT SIDE



FRONT



3.5"

3'

Minimum distance to edge of trail

4" Bottom of sign to trail tread

20-24"

Compressed soil

Rock laid and tamped

Anchor bolt

TYPE 9c

Reassurance Arrow

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Sign Material: HDPE Plastic with 1" letters. Beige-Brown.
Shape: Rectangular
Post Symbols: MLTS Logo, USFS Logo & QR code.
Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

INSTALLATION

Minimum Mounting Height: 4 feet from trail tread to bottom of sign.
Minimum lateral distance: 3 feet from edge of sign to edge of trail.
 Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

SIGN PURPOSE

The Reassurance Arrow signs are used to clarify trail sections that may be confusing such as junctions with use-trails, spurs, or intersections with non-MLTS system routes. Reassurance Arrow signage should not be used in wilderness.

Date Description

06.30.24 MLTPA Document

Prepared by



SEVEN LAKES POINT

Feature or destination name only

SEVEN LAKES POINT
 ↑ S FK WHITE RIVER TR NO 38 →
 ← INDIAN CREEK NO 211

Feature name and route and destination information

Text layout dimensions (inches)

Sign number	H	L	C	D* text	E
TD-1	5	Varies	2	1	1
TD-2	7	Varies	2	1	1
TD-3	9	Varies	2	1	1
TD-4	11	Varies	2	1	1
TD-5	13	Varies	2	1	1

*Dimension D, text size, refers to ASA series C letters

Diagram and text layout dimensions from Chapter 5-9 "Trail Signing" from the "Sign and Poster Guidelines for the Forest Service" (2013).

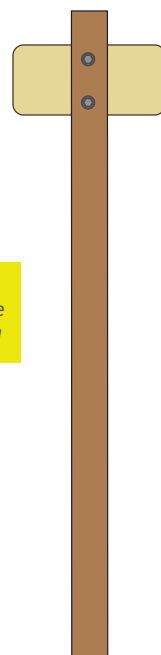
RIGHT SIDE



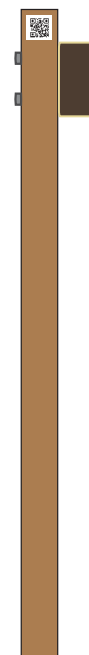
5" long x 3/4" Carriage Bolt

Sign mounting hardware needs confirmation

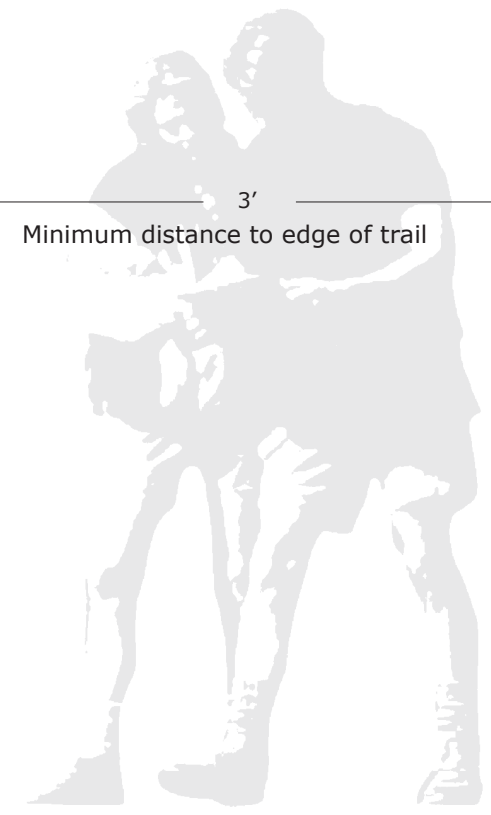
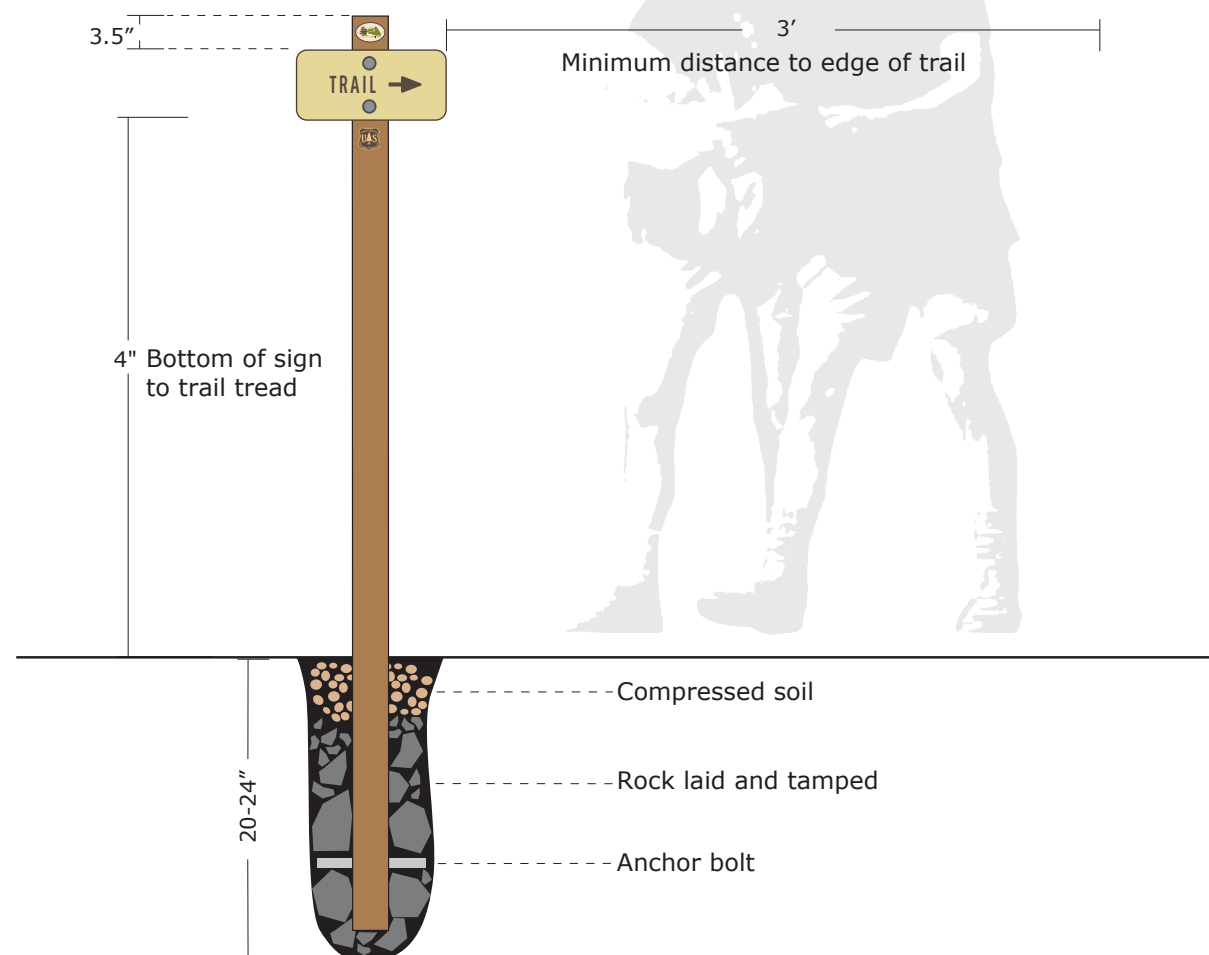
BACK



LEFT SIDE



FRONT



TYPE 11

Poo Fairy Station Program

Scale

n.t.s.
For visual reference only

Notes



04 Century Gothic Bold, Italic 72 pt

10

09 Font outlined in master file

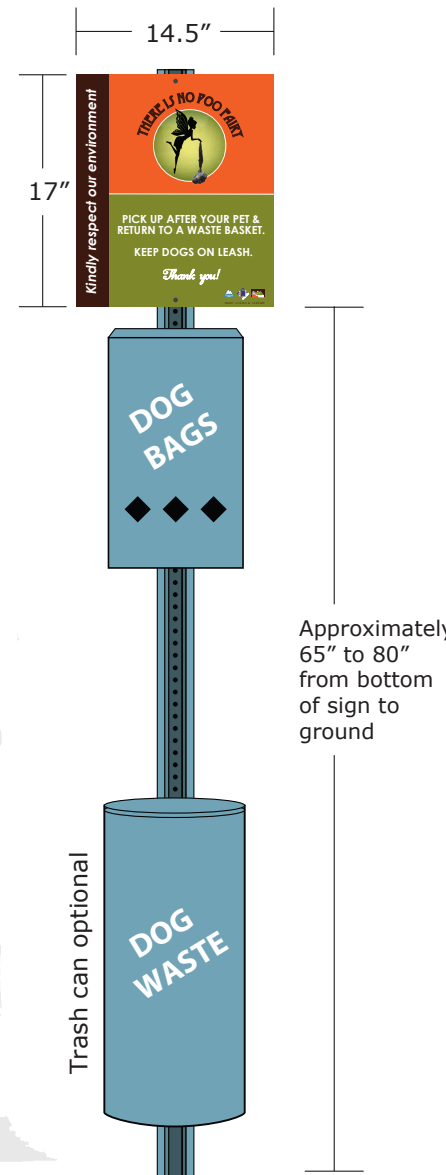
02

05 Century Gothic Bold, 59 pt

04

04 Dorchester Script MT 87.5 pt

04



MASTER GRAPHIC FILE MAINTAINED BY MLTPA. STATIONS AND BAGS SOURCED BY TOML.

FONTS
Century Gothic Bold
Century Gothic Bold, Italic
Dorchester Script MT

FINISH AND GRAPHICS
Standard Regulatory construction.
High performance grade opaque vinyl graphics

VERTICAL POSTS
Attach sign and station to dedicated snow-stake. Sign and station may also be attached to existing infrastructure (pre-existing post, snow-stake, etc.). A dedicated post buried directly into concrete footing may also be used. Dog bag dispenser required. Trash can optional.

INSTALLATION
Sign is attached directly to snow-stakes or posts using appropriate hardware through pre-drilled hole at top and bottom of sign.

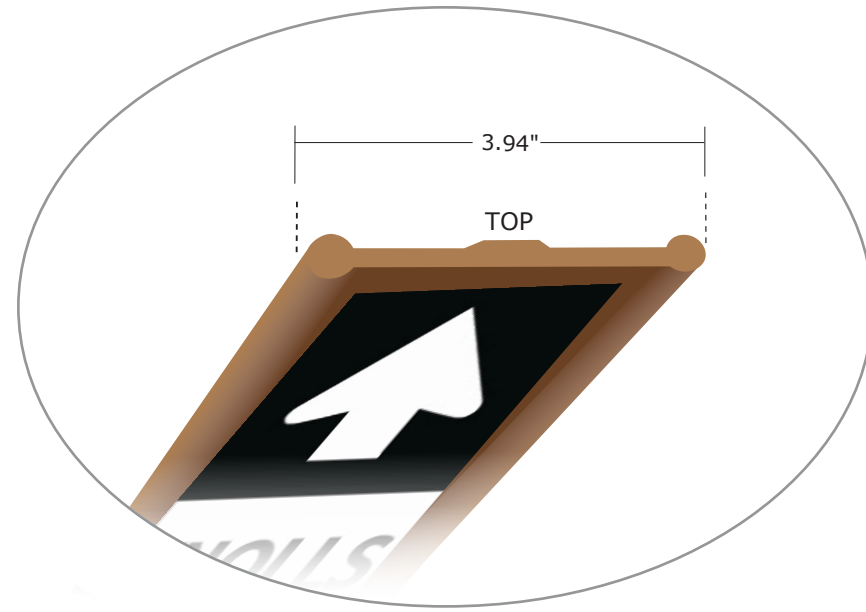
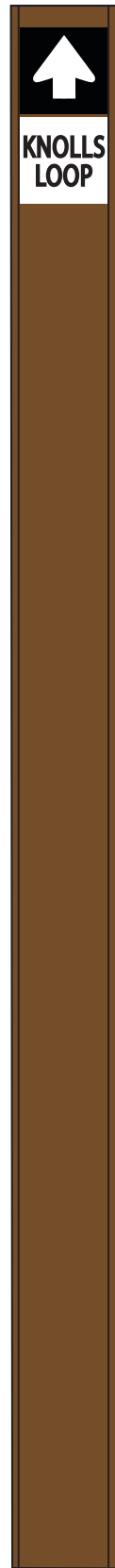
SIGN HARWARE
Tamper Resistant Screw: #8-32 Thread Size, 1/2 in Lg, Steel.

Sign Panel mounting hardware needs confirmation

Date	Description
06.30.24	MLTPA Document

Prepared by





Post and sticker dimensions need confirmation



Sheet Description

TYPE 12

Carsonite Directional

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: Industry standard Carsonite Post

Post Symbols: Decals with recreation symbols. Etiquette triangle if appropriate.

Dimensions: Standard Height TBD.

The width is 3.94" and the depth is .125" in the narrowest section and .370" in depth at the rounded edges.

SIGN PURPOSE

Regulatory signage is to inform of allowed trail uses and to provide right of way etiquette information. TBD as needed.

Date Description

06.30.24 MLTPA Document

Prepared by



TYPE 13

Temporary
Regulatory & Directional
Signage

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: 1/4" Corrugated plastic, printed

Dimensions: 6" x 9" and variable

INSTALLATION

To be attached to existing trail system wooden sign posts using zip ties at the top and the bottom with closure mechanism on the back side of sign.

Best logic should be used to determine placement on post as post may already have a regulatory strip attached.

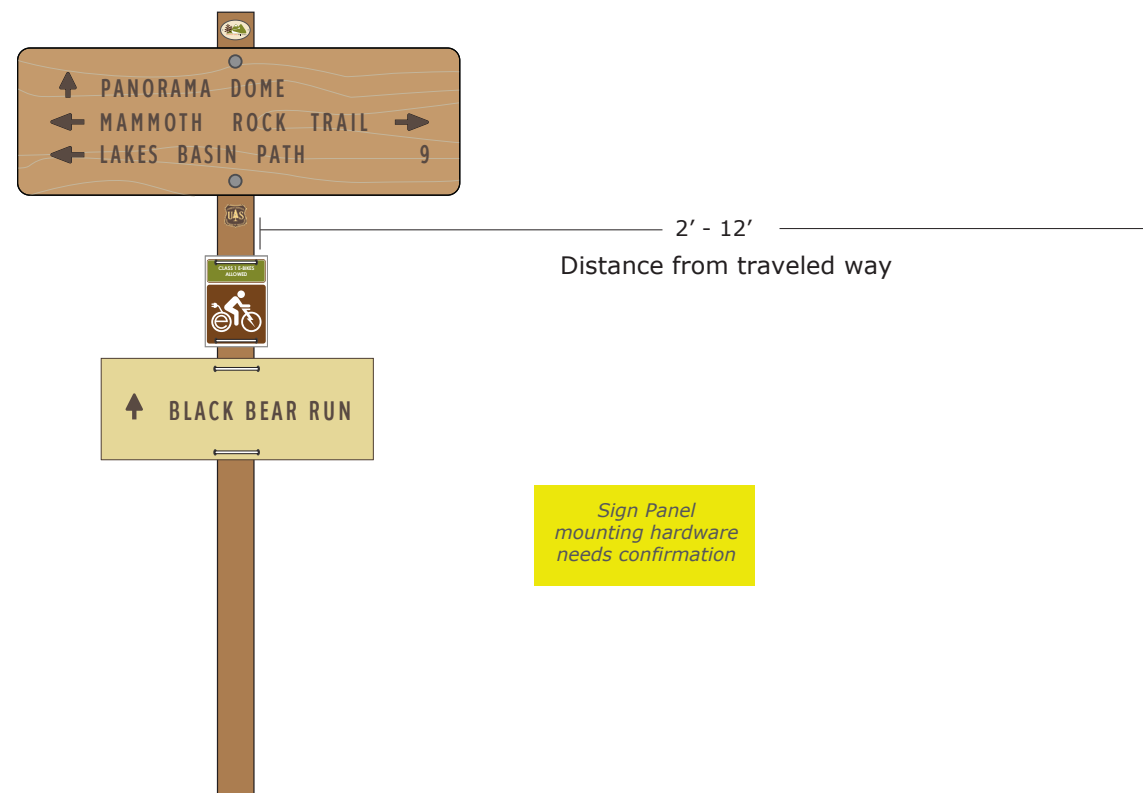
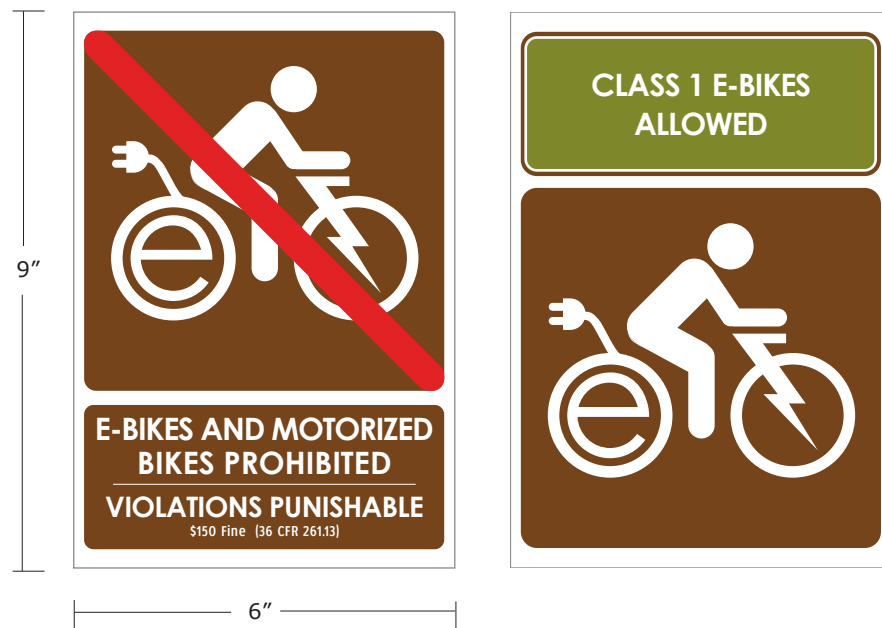
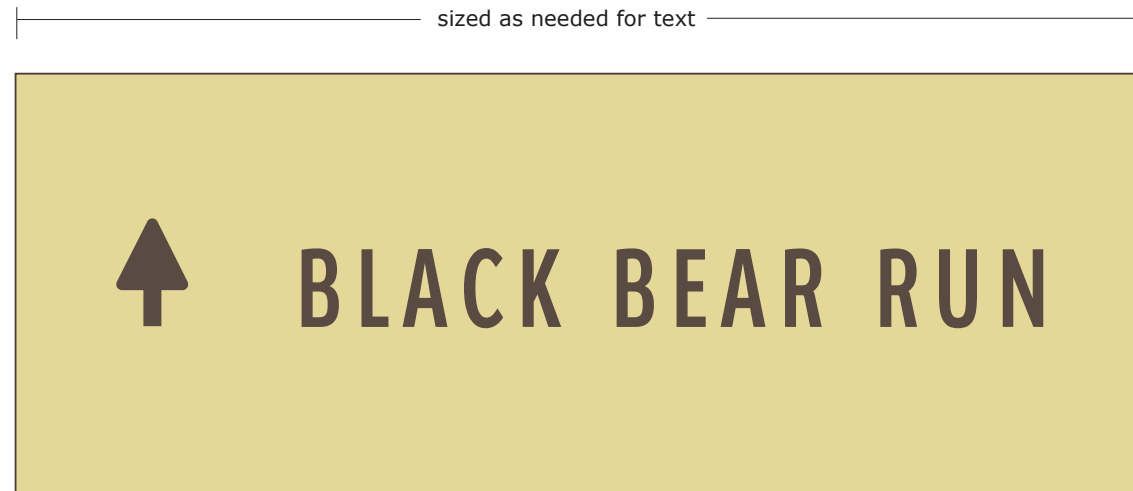
SIGN PURPOSE

Temporary Regulatory Signage provides users with important regulatory information of an urgent nature. Temporary Directional Signage provides users with trail related information prior to installation of permanent signage.

Date Description

06.30.24 MLTPA Document

Prepared by



TYPE 10

Temporary Mitigation & Etiquette A-frames

Scale

n.t.s.
For visual reference only

Notes

ITERATIVE TEMPLATE

The array represented here is incomplete as the mitigation template is intended to be responsive and quickly editable to meet immediate and ongoing trail system needs.

TEMPORARY MITIGATION & ETIQUETTE COROPLAST PANEL



24" x 36" Coroplast panel

DEVELOPED SIGN ARRAY



SAFETY



LAKES BASIN ARRAY

A-FRAMES FONTS

A-Frames use Century Gothic. Exceptions can be made where information from external parties is being shared for public safety.

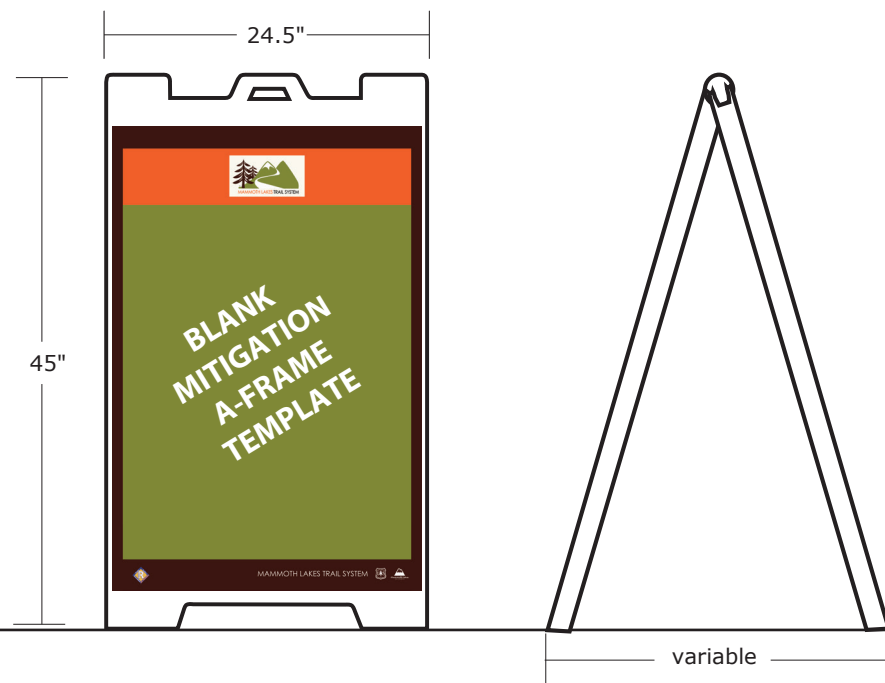
A-FRAME FINISH AND GRAPHICS

A-Frame graphic files are provided to printer as vector PDFs. Manufacturer prints using exterior grade ink on 1/4" Coroplast.

A-FRAME INSTALLATION

Graphic panels are attached to standard A-Frame sandwich boards using heavy-duty velcro. A 2" x 2" square is placed on each corner. Fuzz side is always on A-Frame. This standard placement simplifies swapping out panels.

A-Frames are placed in the field where necessary and may be secured to existing infrastructure using wire or zip ties when deemed necessary. They may also be filled with water.



TEMPORARY A-FRAME



ETIQUETTE

Date Description

06.30.24 MLTPA Document

Prepared by

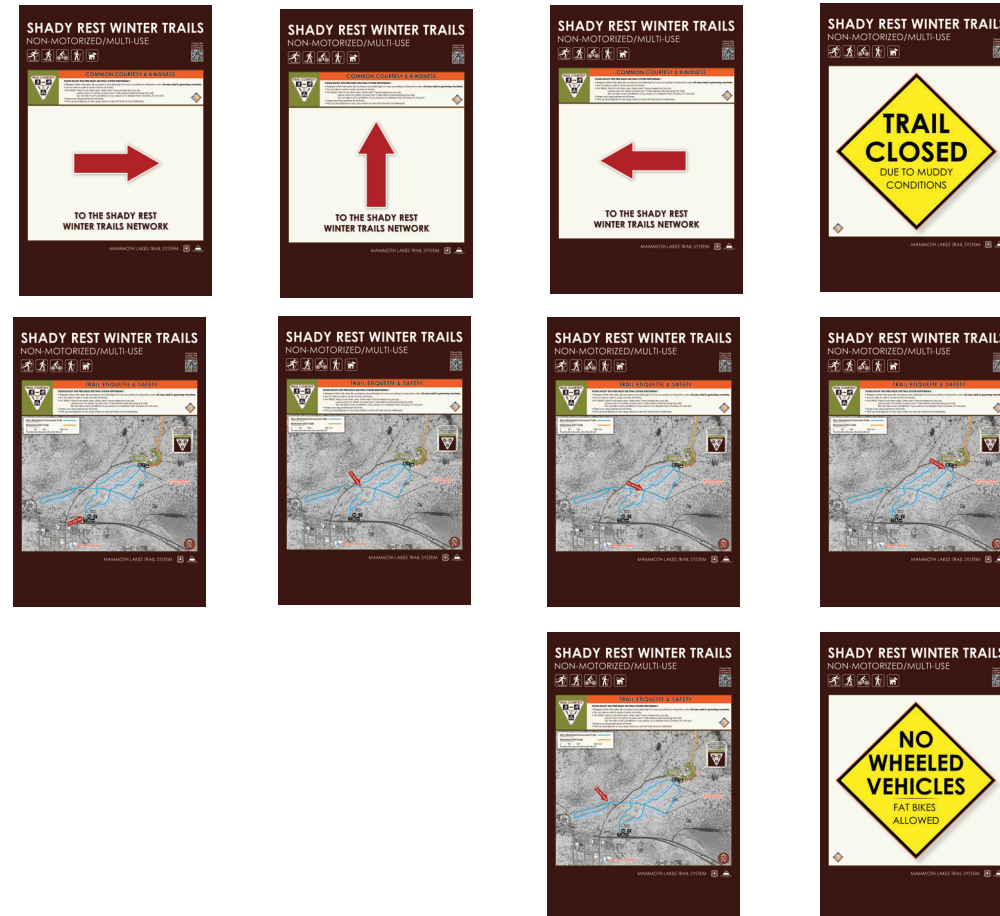


**TEMPORARY WINTER TRAILS
COROPLAST PANEL**



24" x 36" Coroplast panel

DEVELOPED SIGN ARRAY AS OF DOCUMENT DATE



SHADY REST WINTER TRAILS



**SHERWINS WINTER TRAILS
(PILOT PROGRAM NOT IMPLEMENTED)**

**A-FRAMES
FONTS**

A-Frames use Century Gothic. Exceptions can be made where information from external parties is being shared for public safety.

**A-FRAME
FINISH AND GRAPHICS**

A-Frame graphic files are provided to printer as vector PDFs. Manufacturer prints using exterior grade ink on 1/4" Coroplast.

**A-FRAME
INSTALLATION**

Graphic panels are attached to standard A-Frame sandwich boards using heavy-duty velcro. A 2" x 2" square is placed on each corner. Fuzz side is always on A-Frame. This standard placement simplifies swapping out panels.

A-Frames are placed in the field where necessary and may be secured to existing infrastructure using wire or zip ties when deemed necessary. They may also be filled with water.



TEMPORARY A-FRAME

Sheet Description

TYPE 20

Winter Trail
A-frames

Scale

n.t.s.
For visual reference only

Notes

Date Description

06.30.24 MLTPA Document

Prepared by



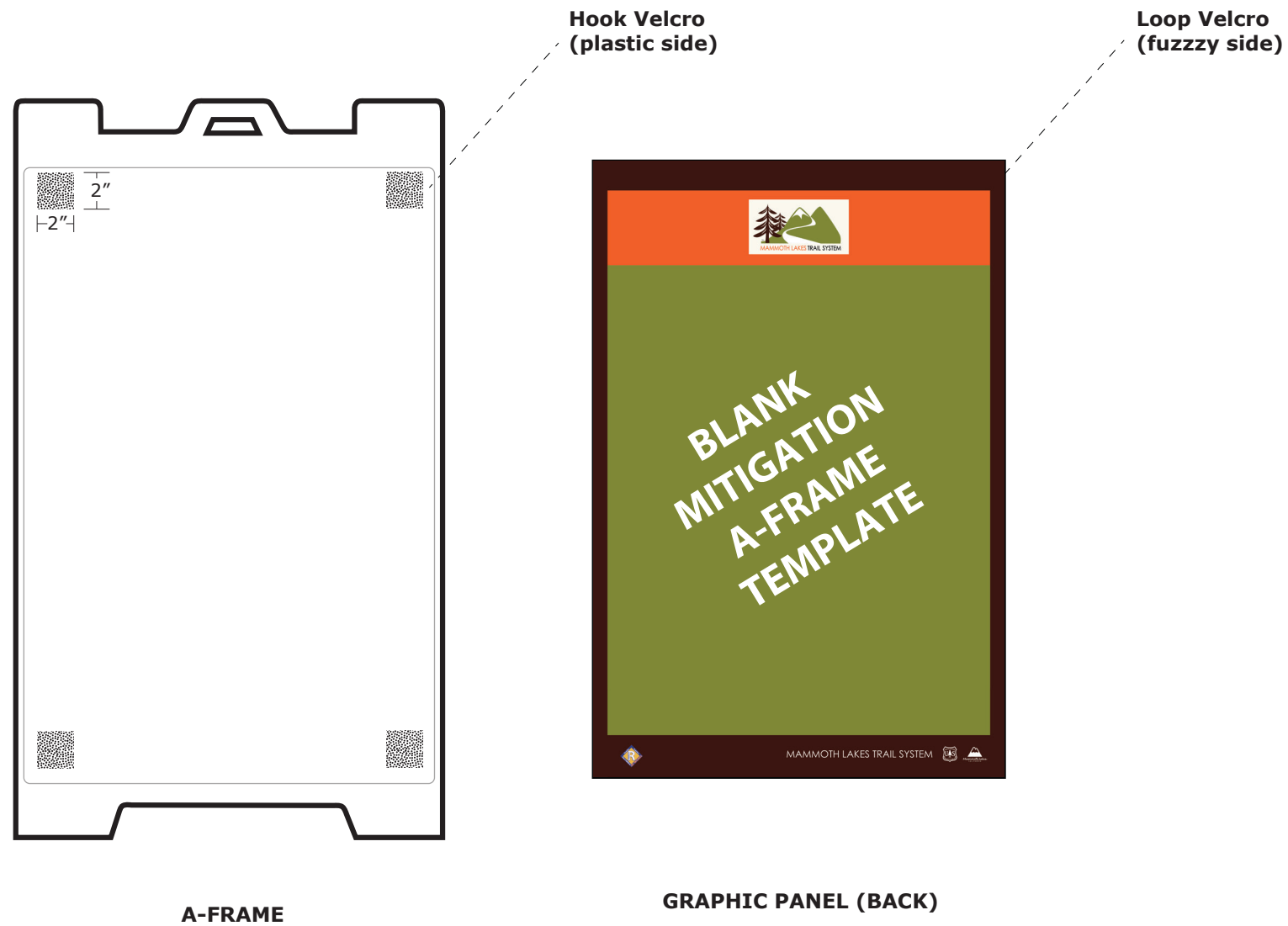
TYPE 10 & 20

Temporary Mitigation & Etiquette, and Winter Trail A-frames

Scale

n.t.s.
For visual reference only

Notes



GRAPHIC PANEL INSTALLATION

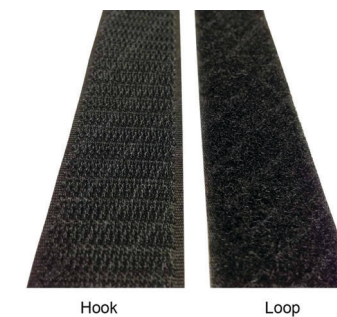
Graphic panels are attached to standard A-Frame sandwich boards using industrial strength white velcro. A 2" x 2" square is placed on each corner. This standard placement simplifies swapping out panels.

A-Frame structure always receives plastic hook side of velcro.

Back of coroplast panel always receives furry loop side of velcro.



WHITE 2" INDUSTRIAL STRENGTH VELCRO ROLL



Date	Description
06.30.24	MLTPA Document

Prepared by



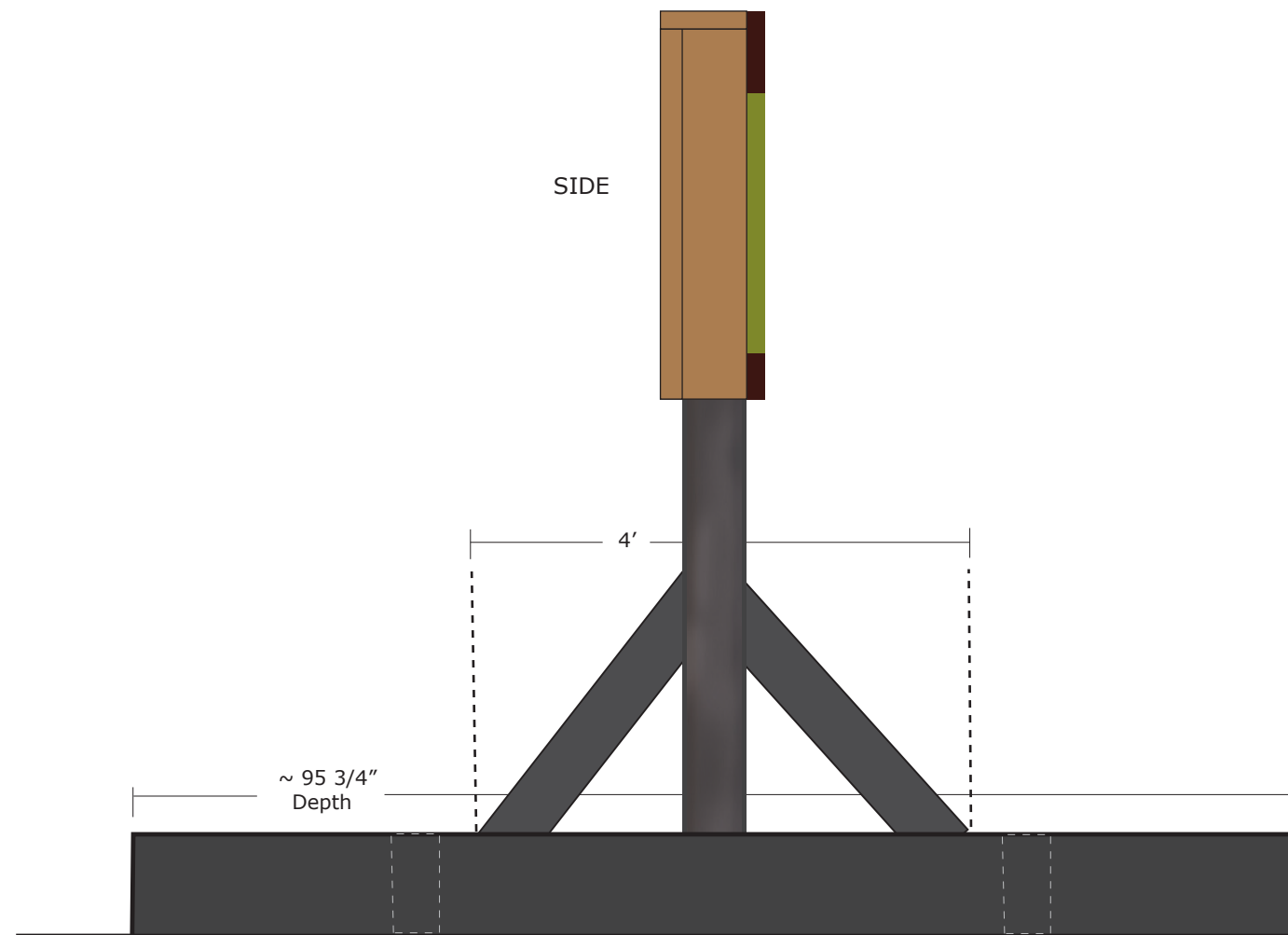


Sign Panel mounting hardware needs confirmation

FRONT



SIDE



Sheet Description

TYPE 2 HYBRID

Summer Node Information Kiosk

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: 3/16" aluminum for the sign face and wood for the sled and sign frame.

Post Material: This summer sign repurposes the winter wooden sled base (Type 21) used at Sherwins Trailhead, which can be filled with sandbags in summer for additional weight.

INSTALLATION

Metal sign panel is mounted to a custom wooden box constructed with basic lumber which slides down over the sled frame. Exact construction specifications may be subject to change as dictated by on-the-ground conditions.

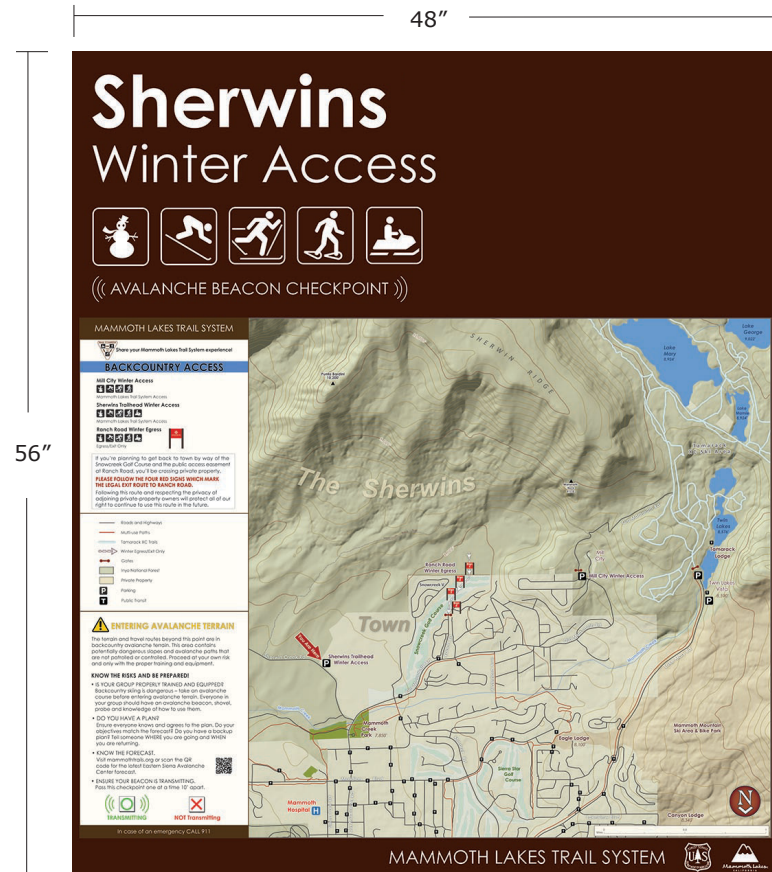
SIGN PURPOSE

Used at major summer trail nodes where fully developed trailhead infrastructure has not been constructed.

Date	Description
06.30.24	MLTPA Document

Prepared by

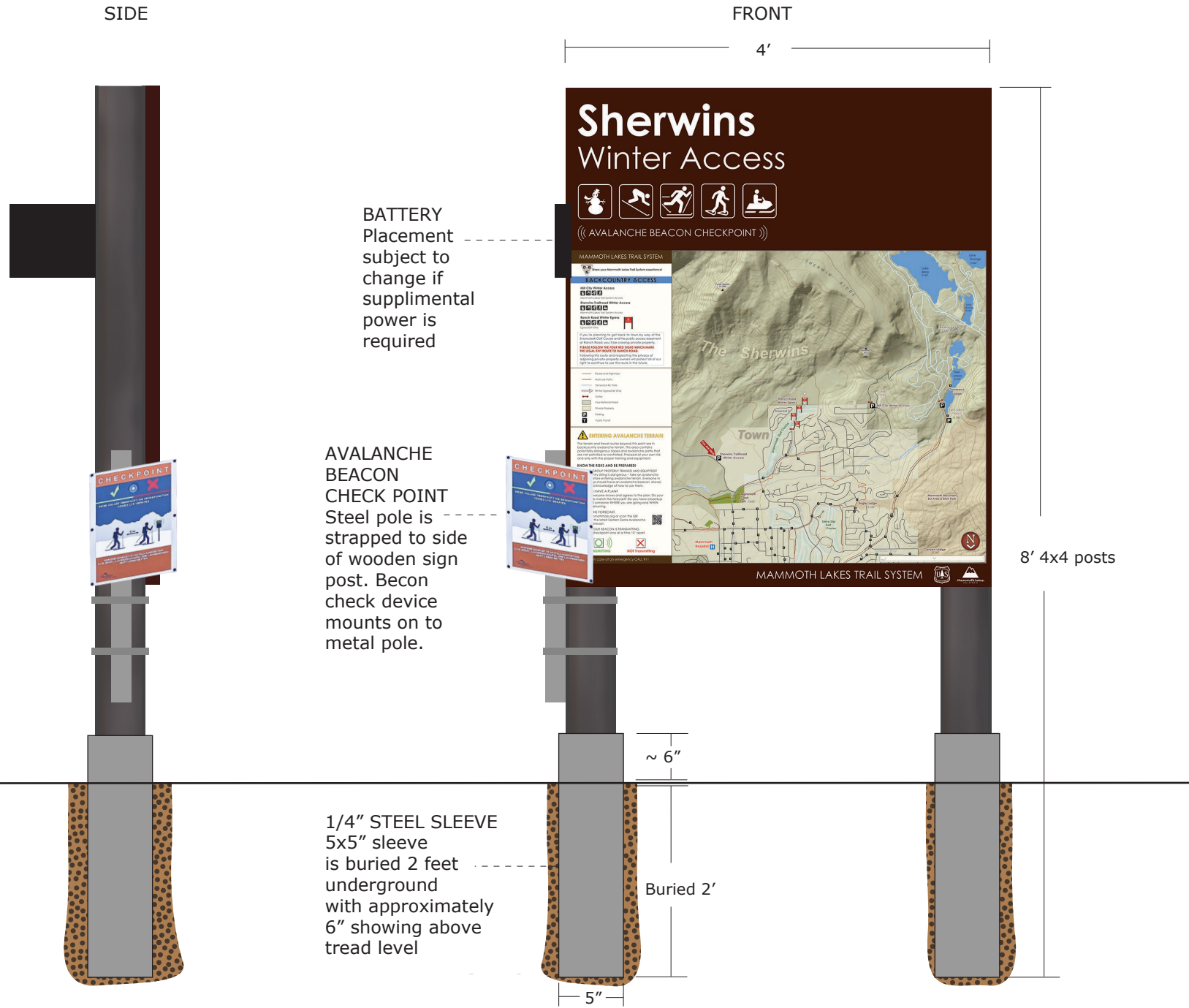




48"

56"

Sign Panel mounting hardware and Beacon Check mounting hardware need confirmation



Sheet Description

TYPE 21

Winter Sherwins Access Sleeve Base

Scale

n.t.s.
For visual reference only

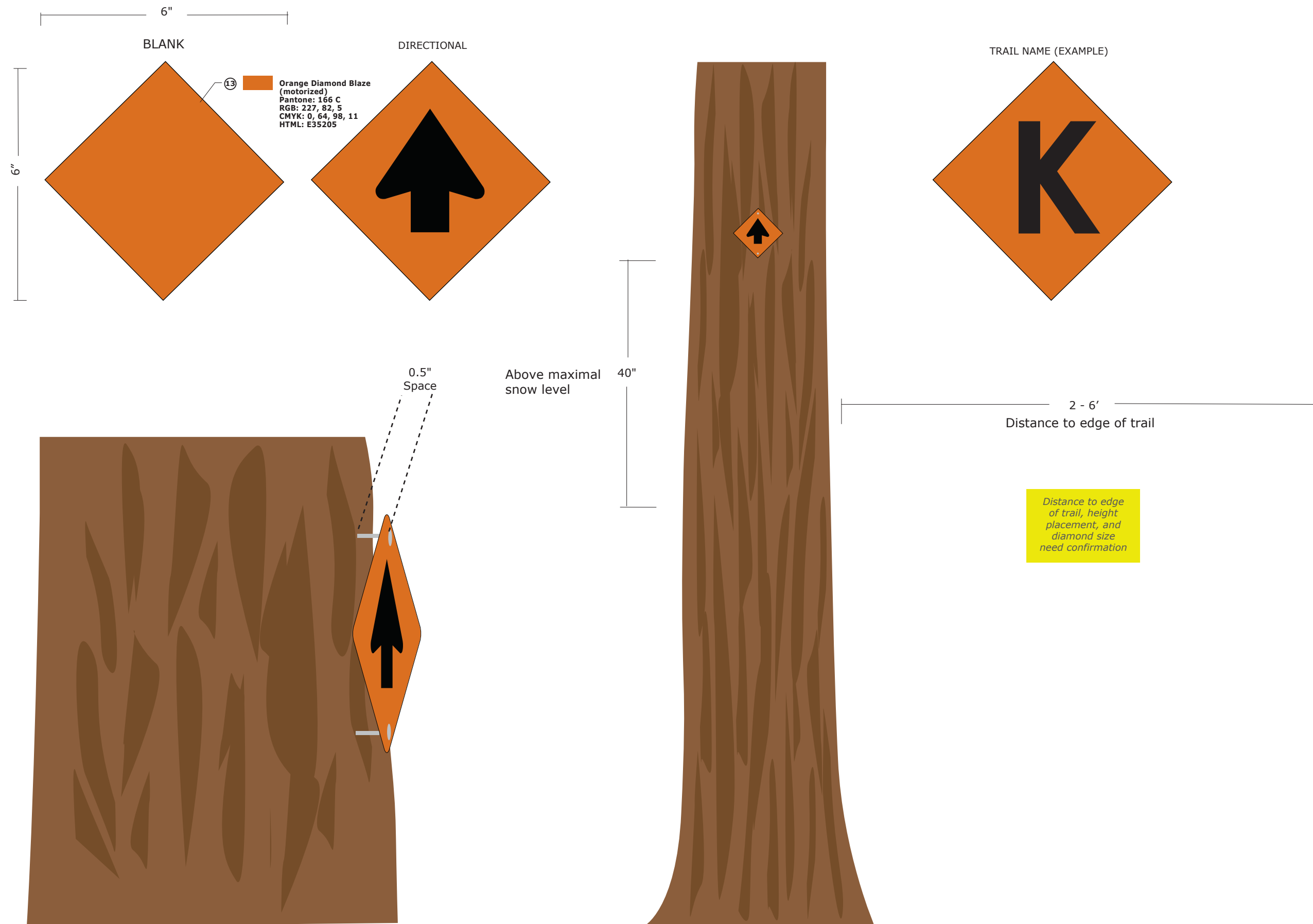
Notes

BASIC INFORMATION
Sign Material: 3/16" aluminum.
Post Material: 4x4" wooden posts with 5x5" quarter inch steel sleeve.
INSTALLATION
 Signs are mounted to 4x4" post. 5x5" sleeve is buried 2 feet in ground with approximately 6" showing above. Sign posts slide into sleeves. Steel pole is strapped to side of sign post and beacon checker device is mounted to pole. Steel sleeve allows sign to be raised as snow levels increase. Sign can then be strapped to a nearby tree or infrastructure when snow levels dictate.
SIGN PURPOSE
 Winter Access/Egress signs function as kiosks providing users with information about allowed recreation activities at each of the MLTS Sherwins winter nodes, and encouraging backcountry users to utilize the Ranch Road Egress across the Snowcreek Golf course when exiting the Sherwins. Signs also provide a beacon check-point.

Date	Description
06.30.24	MLTPA Document

Prepared by





Sheet Description

TYPE 22a

Winter Orange Diamonds
(motorized trails)

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: Metal or plastic square diamond, orange. They may have arrows, or letter indicating direction or trail. USFS traditionally produces this product and it is subject to USFS design standards.
Post Material: Trees

INSTALLATION

Blazes should be installed with aluminum nails. Allow 12 mm (1/2 inch) or so behind the tag for additional tree growth.

Height: 40 inches above average maximum snow level. No more than 84 inches above current snow level.

Lateral distance: 2 to 6 feet minimum lateral distance from edge of trail tread to sign.

SIGN PURPOSE

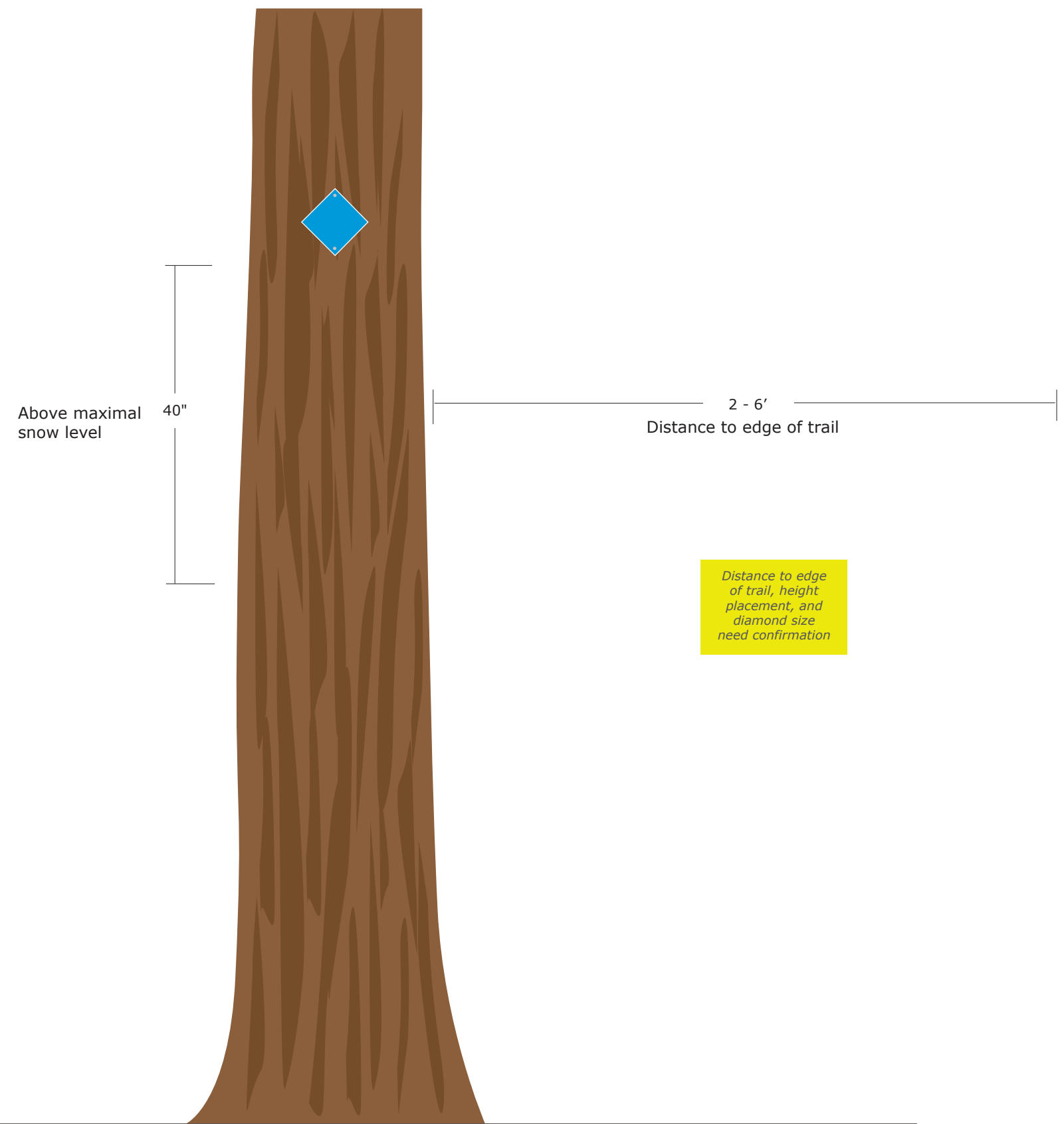
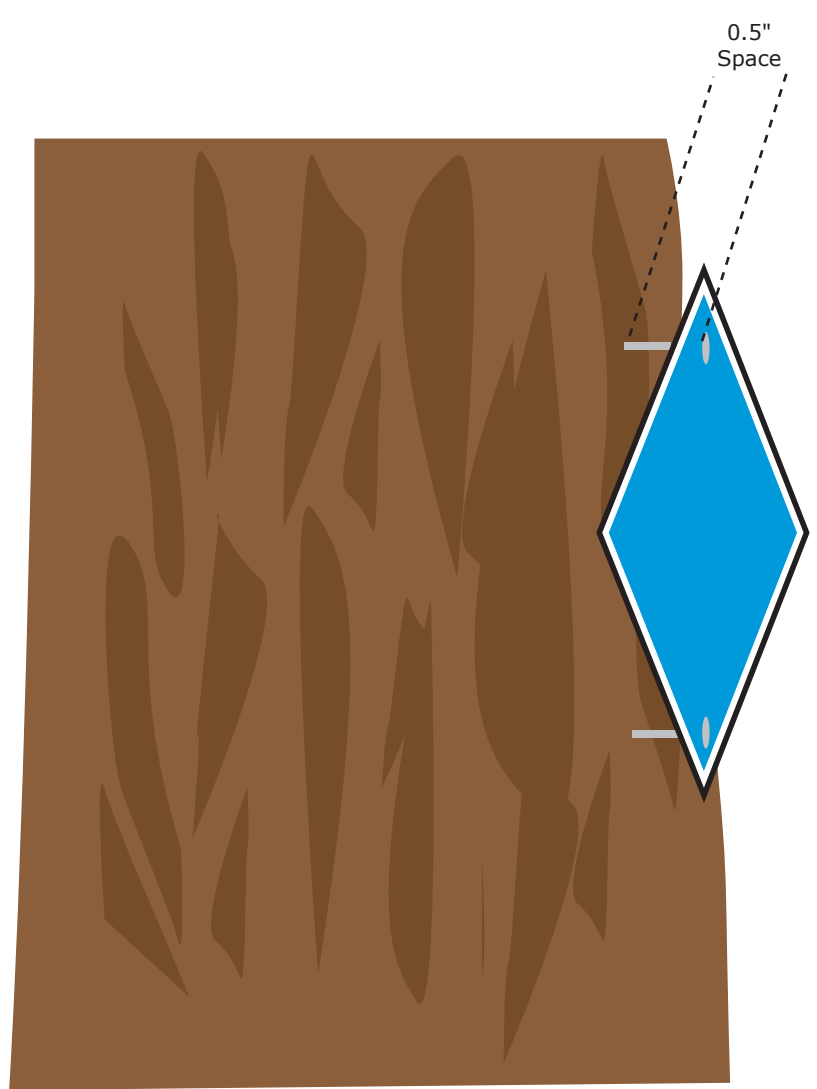
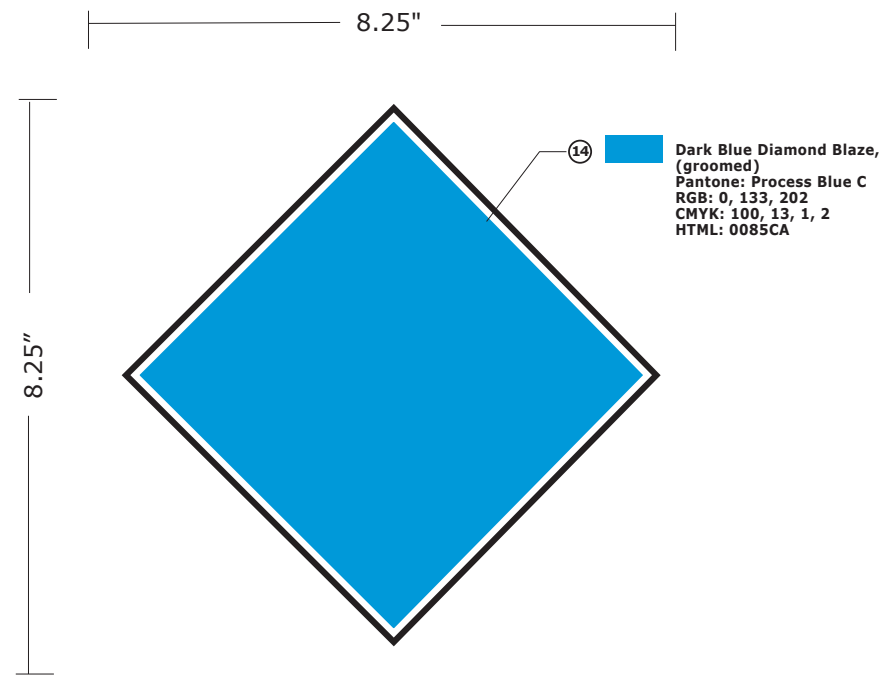
Orange Diamonds function as reassurance markers attached to trees or posts on Groomed Motorized Winter Trails to keep users on course. These blazes are placed at all intersections and along groomed motorized trails where location could be uncertain.

Date Description

06.30.24 MLTPA Document

Prepared by





Sheet Description

TYPE 22b
 Winter Dark Blue Diamonds
 (non-motorized groomed)

Scale

n.t.s.
 For visual reference only

Notes

BASIC INFORMATION

Material: Metal or plastic square diamond, dark blue with 1/4 white retroreflective border.
Post Material: Trees

INSTALLATION

Blazes should be installed with aluminum nails. Allow 12 mm (1/2 inch) or so behind the tag for additional tree growth.
Height: 40 inches above average maximum snow level. No more than 84 inches above current snow level.
Lateral distance: 2 to 6 feet minimum lateral distance from edge of trail tread to sign.

SIGN PURPOSE
 Dark Blue Diamonds function as reassurance markers attached to trees or posts on groomed non-motorized winter trails to keep users on course.

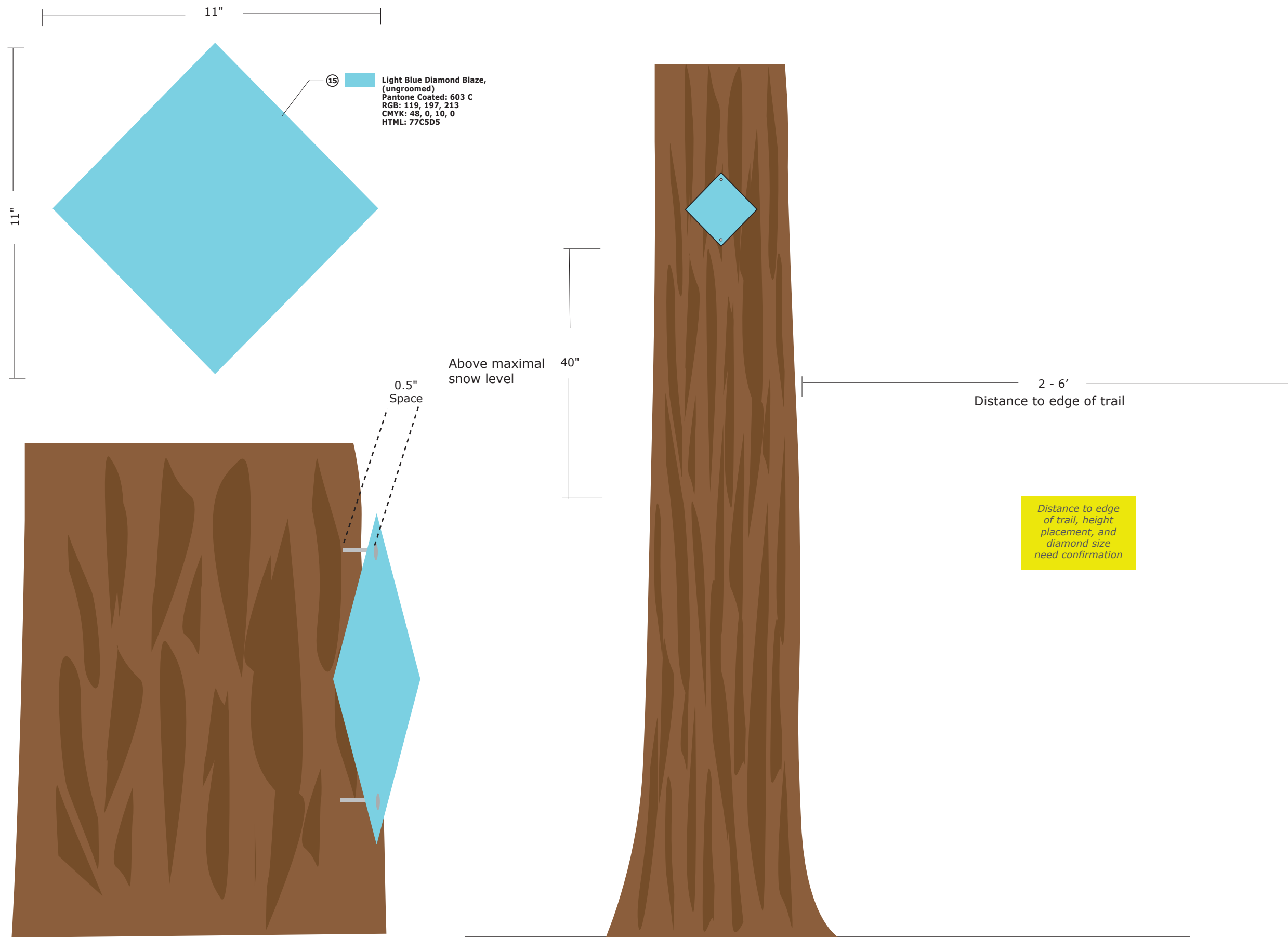
These blazes are placed at all intersections and along ungroomed non-motorized routes where location can be uncertain.

Date Description

06.30.24	MLTPA Document
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Prepared by





Sheet Description

TYPE 10c

Winter Light Blue Diamonds (non-motorized ungroomed)

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: Metal square light blue in color
Post Material: Trees

INSTALLATION

Blazes should be installed with aluminum nails. Allow 12 mm (1/2 inch) or so behind the tag for additional tree growth.
Height: 40 inches above average maximum snow level. No more than 84 inches above current snow level.
Lateral distance: 2 to 6 feet minimum lateral distance from edge of trail tread to sign.

SIGN PURPOSE

Light Blue Diamonds function as reassurance markers attached to trees or posts on ungroomed non-motorized winter routes to keep users on course.

These blazes are placed at all intersections and along ungroomed non-motorized routes where location can be uncertain.

Date Description

06.30.24	MLTPA Document
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Prepared by



TYPE 23

Short Regulatory

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Sign Material: 0.080 Grad Aluminum

Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')

INSTALLATION

Height: Top of post maximum 4 feet from trail tread.

Minimum lateral distance: 3 feet from edge of sign to edge of trail.

Installed in a hole dug 20-24 inches deep, packed with rocks and dirt, and an anchor bolt attached to the bottom of the post.

SIGN PURPOSE

Short Regulatory signs are used to mitigate user interactions where equestrian trails intersect with non-equestrian trails. They are also used to convey no-camping and no-campfires information in areas close to popular trails where these activities are not allowed.

Date Description

06.30.24 MLTPA Document

Prepared by



PRODUCTION, FINISH AND GRAPHICS

Sign Material = 0.080 Grade Aluminum

White border on brown signs = 0.25"

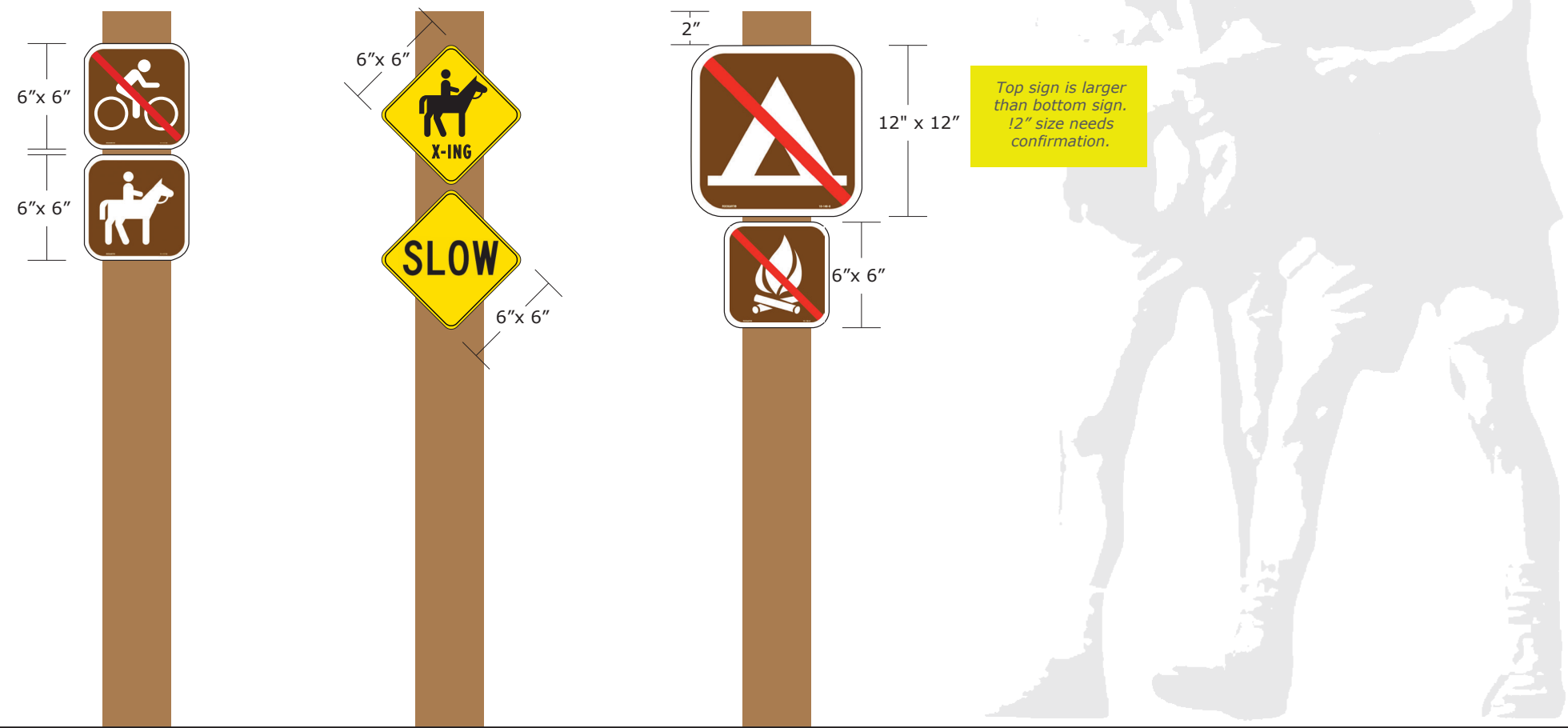
Corner radius on all signs = 0.5"

Screw hole size = 0.1875" Diameter (x2);

0.9375" from Top/Bottom

Sign Panel mounting hardware and post height needs confirmation

Top sign is larger than bottom sign. 12" size needs confirmation.



Adopt-A-Trail

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: aluminum
Post Material: Cedar "Four by Four" posts. (Actual dimensions 3.5" x 3.5" x 8')
Program: The AAT Signs and program are managed and by the local NGO Mammoth Lakes Recreation, not the MLTS directly.

INSTALLATION

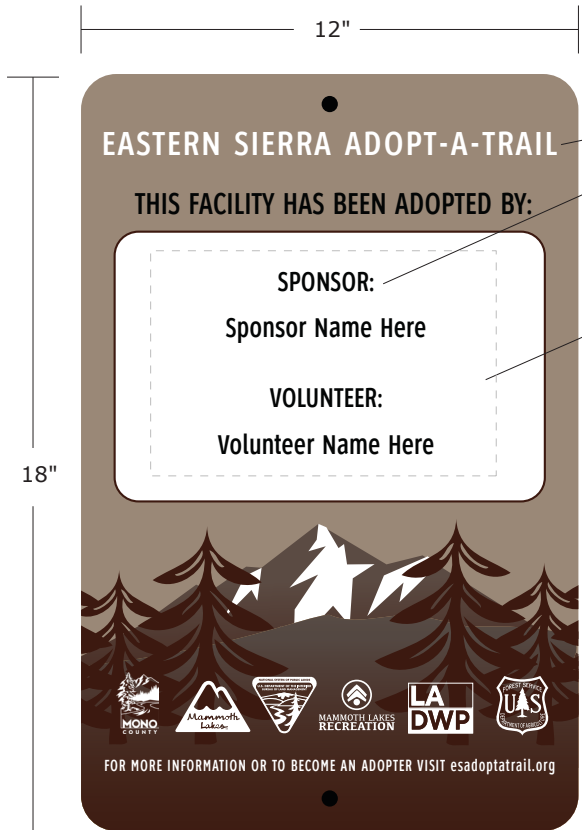
The MLTS provides support for this program by installing posts and signage at trail heads and significant locations identified by the AAT program.

SIGN PURPOSE

The AAT Acknowledgement sign credits the person, persons, or entity who has committed to fund or physically help maintain given elements of the trail system both soft and hard surface.

Date	Description
06.30.24	MLTPA Document

Prepared by



FONTS
Clearview HWY 2-B

"SPONSOR" & "VOLUNTEER" INFORMATION ADDED BY MLR VIA CLEAR REPLACEABLE STICKER

MASTER GRAPHIC FILES MAINTAINED BY MLTPA & MAMMOTH LAKES RECREATION

MATERIALS, FINISHES AND GRAPHICS
Specs for sign materials and manufacturing available from Mammoth Lakes Recreation.

VERTICAL POSTS
4" X 4" X 8' treated lumber posts.

INSTALLATION
Place post approximately 1' from pathway tread, determined by situation.

Direct bury posts into ground. Sink posts 3' into ground, determined by situation.

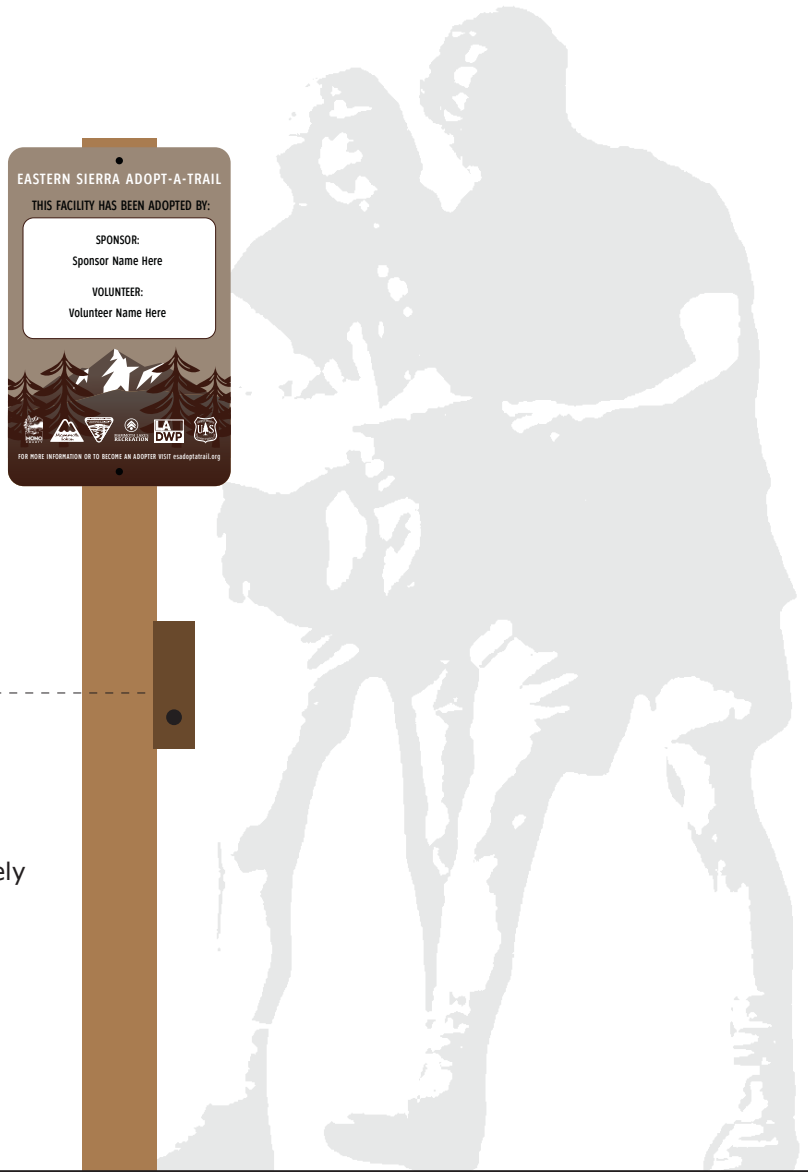
Mount sign with top edge 1" from top of post.

Sign hardware = 5/16" x 5" galvanized carriage bolt, washer, nut.

Sign Panel mounting hardware needs confirmation

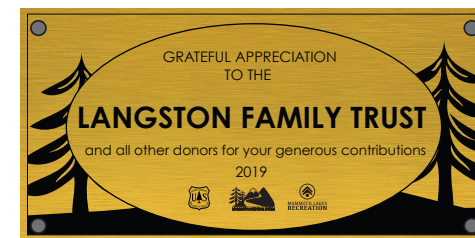
Trail counter installation on post optional.

OPTIONAL TRAIL COUNTER
Trail Counters are installed on some signs across the MLTS but are maintained separately from the signage system.

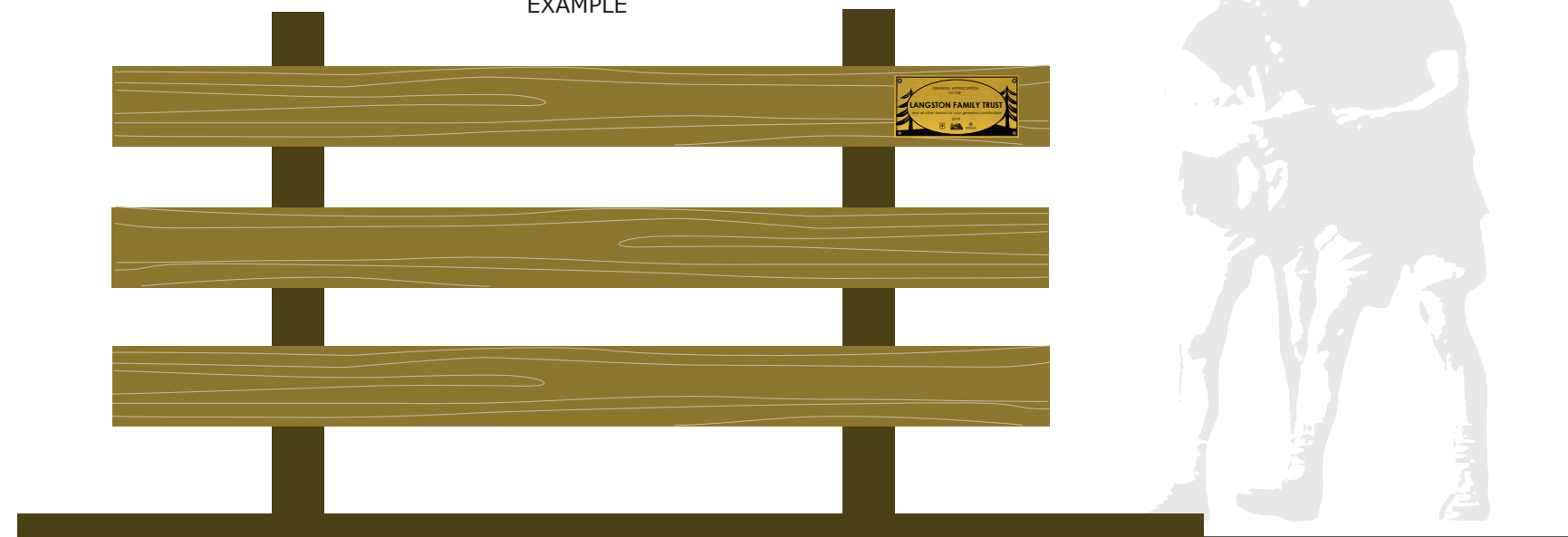




DIFFERING SIZE AND ASPECT RATIO EXAMPLES



USFS BRIDGE EXAMPLE



Sheet Description

Donor Plaque

Bronze Donor Plaque

Scale

n.t.s.
For visual reference only

Notes

BASIC INFORMATION

Material: Bronze
Mounted On: Major infrastructure.

Program: Managed and funded by Mammoth Lakes Recreation

INSTALLATION

MLTS provides installation support. Donor Plaques are mounted with four visually discrete screws, one in each corner, or glued, to the piece of infrastructure with which they are associated. Donor plaque size and aspect ratio vary depending on the needs of each situation and mounting options. Maintaining a four sided shape with right angles is preferred. Any alternative design should be executed professionally and approved for consistency.

SIGN PURPOSE

The Donor Plaque is used to express thanks and semi-permanently acknowledge a significant financial contribution towards a piece of Trail System infrastructure (eg. bridge, boat dock, seating area, kiosk, etc.)

Date Description

06.30.24	MLTPA Document
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Prepared by

