



Town of Mammoth Lakes Mammoth Lakes Trail System Standards Manual

June 2024

Introduction

The Town of Mammoth Lakes Trail System Standards Manual for the construction of multi-use path signage and related facilities on the Mammoth Lakes Trails System combines authoritative resources into a single accessible document. It is organized to reflect the sheet structure of Section 600 of the Town's "Standard Plans for Public Works 2014 Revisions" adopted by the Town Council on May 7, 2014. Section 600 - the Town's official and adopted requirements for the construction of multi-use path signage and related facilities on the Mammoth Lakes Trails System - was originally revised and updated in July of 2013.

Section 600: "Purpose Statement"

"The purpose of the following Mammoth Lakes Trail System (MLTS) Standards is to guide the various agencies and organizations with identified roles in the management and/or implementation of the MLTS, and to ensure a consistent experience and level of service for trail users. This document is to be a living document that is updated as necessary, and conforms to the needs and expectations of the Town of Mammoth Lakes. The following standards include sections on the design and implementation of signage and wayfinding, multi-use paths, trail amenities, and other pedestrian facilities."

Standards Manual: User Guide

Each section of the Standards Manual is named for a companion sheet structure of Section 600. Inside each section are the relevant pages from Section 600, as updated and adopted by the Town in July of 2013, followed by the most current iterations of Mammoth Lakes Trail System standards that are currently in use and deployed. This iterative structure will be useful for the Town and the Mammoth Lakes Trail System as future updates are made to the "Standard Plans for Public Works" and is consistent with the Town's stated desire that "This document (Section 600) is to be a living document that is updated as necessary, and conforms to the needs and expectations of the Town of Mammoth Lakes."

General Purpose Statement

The “General Purpose Statement” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SECTION 600
MAMMOTH LAKES TRAIL SYSTEM

LAST REVISION : JULY 2013



GENERAL

THE PURPOSE OF THE FOLLOWING MAMMOTH LAKES TRAIL SYSTEM (MLTS) STANDARDS IS TO GUIDE THE VARIOUS AGENCIES AND ORGANIZATIONS WITH IDENTIFIED ROLES IN THE MANAGEMENT AND/OR IMPLEMENTATION OF THE MLTS, AND TO ENSURE A CONSISTENT EXPERIENCE AND LEVEL OF SERVICE FOR TRAIL USERS. THIS DOCUMENT IS TO BE A LIVING DOCUMENT THAT IS UPDATED AS NECESSARY, AND CONFORMS TO THE NEEDS AND EXPECTATIONS OF THE TOWN OF MAMMOTH LAKES. THE FOLLOWING STANDARDS INCLUDE SECTIONS ON THE DESIGN AND IMPLEMENTATION OF SIGNAGE AND WAYFINDING, MULTI-USE PATHS, TRAIL AMENITIES, AND OTHER PEDESTRIAN FACILITIES.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



GENERAL

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 1 OF 1

General Purpose Statement

On the following page is the current draft of the “General Purpose Statement” for Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” as updated and maintained by the Town’s Office of Outdoor Recreation for the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



General Purpose Statement

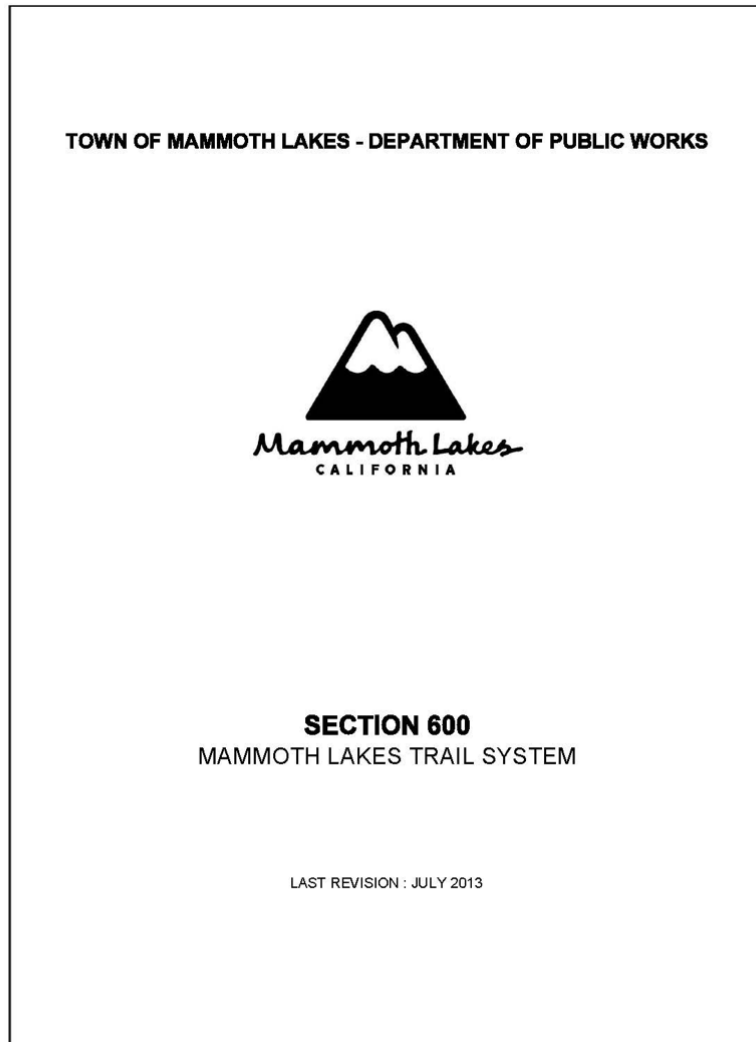
Current Text: Last Updated July, 2013

“The purpose of the following mammoth lakes trail system (MLTS) standards is to guide the various agencies and organizations with identified roles in the management and/or Implementation of the MLTS, and to ensure a consistent experience and level of service for trail users. This document is to be a living document that is updated as necessary, and conforms to the needs and expectations of the town of mammoth lakes. The following standards include sections on the design and implementation of signage and Wayfinding, multi-use paths, trail amenities, and other pedestrian facilities.”

Sign Types

The “Sign Types” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



SIGNAGE AND WAYFINDING

SECTION 601 PROVIDES DETAILS ON THE SIGNAGE AND WAYFINDING COMPONENT OF THE MAMMOTH LAKES TRAIL SYSTEM:

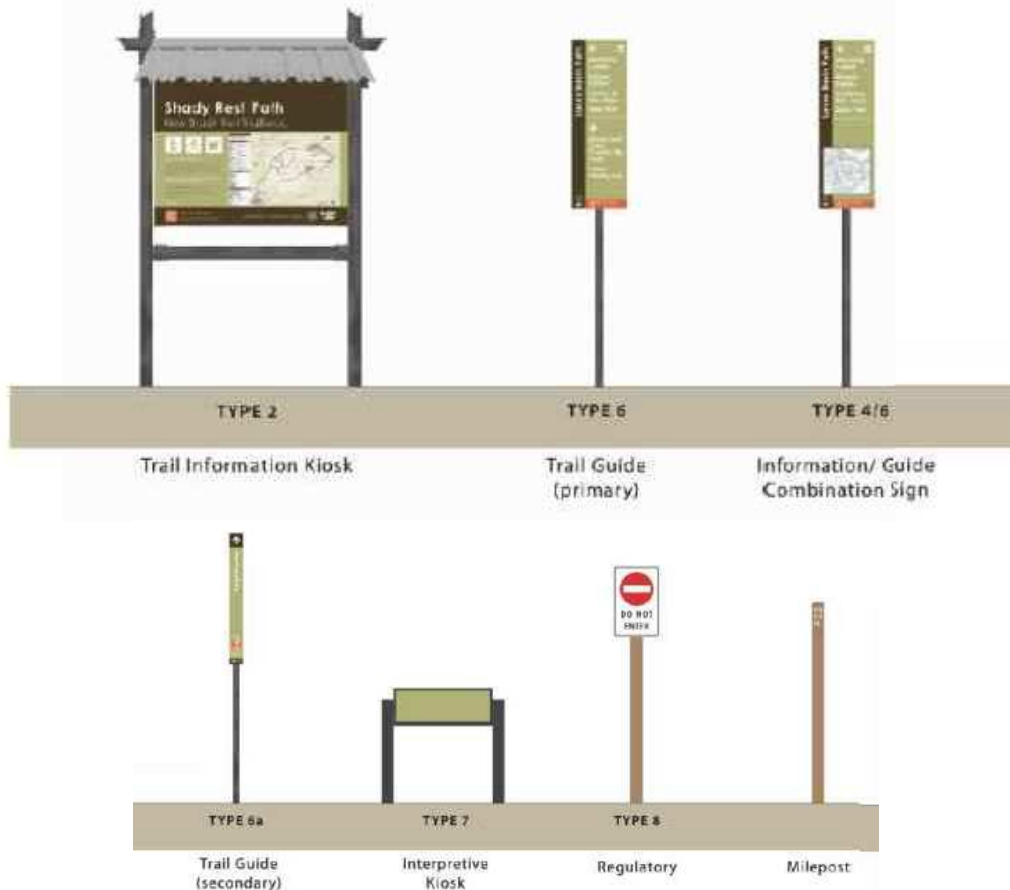
1. THE SIGN FAMILY AVAILABLE FOR USE ON THE MAMMOTH LAKES TRAIL SYSTEM
2. A DESCRIPTION OF EACH SIGN TYPE
3. GUIDELINES FOR SIGN SPACING AND TYPICAL LOCATIONS

DETAILED DRAWINGS AND SPECIFICATIONS FOR EACH SIGN TYPE ARE PROVIDED IN THE FOLLOWING SECTIONS:

- SECTION 602 - WAYFINDING SIGNAGE
- SECTION 603 - REGULATORY SIGNAGE
- SECTION 604 - INTERPRETIVE SIGNAGE

SIGN FAMILY

THE MAMMOTH LAKES TRAILS SYSTEM EMPLOYS THE FOLLOWING FAMILY OF SIGNS FOR WAYFINDING, REGULATORY, AND INTERPRETIVE PURPOSES:



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGNAGE AND WAYFINDING

PUBLIC WORKS
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SIGN TYPES AND DESCRIPTIONS

WAYFINDING SIGNAGE IS INTENDED TO HELP PEOPLE ORIENT THEMSELVES AS TO THEIR CURRENT LOCATION AND ASSIST THEM IN NAVIGATING FROM PLACE TO PLACE. EFFECTIVE WAYFINDING REQUIRES THE CONSISTENT USE AND ORGANIZATION OF VISUAL CUES. SOME MAMMOTH LAKES TRAIL SYSTEM SIGNS CONTAIN A RESCUE LOCATOR, WHICH SERVES NO WAYFINDING PURPOSE FOR THE TRAIL USER, BUT SERVES AS AN IMPORTANT SECONDARY WAYFINDING PURPOSE FOR EMERGENCY RESPONDERS. (SEE SECTION 602)

REGULATORY SIGNAGE PROVIDES FOR PUBLIC SAFETY OR INFORMS THE PUBLIC OF KEY RULES. SIGNS THAT PROVIDE FOR PUBLIC SAFETY SHOULD BE BRIGHTLY COLORED. THE GREATEST AMOUNT OF "SIGN POLLUTION" COMES FROM REGULATORY SIGNS, SO WHENEVER POSSIBLE, CONSOLIDATE RULES AND REGULATIONS ONTO ONE SIGN OR INTEGRATE WITH AN INFORMATION SIGN. (SEE SECTION 603)

INTERPRETIVE SIGNAGE IS INTENDED TO PROVIDE TRAIL USERS WITH EDUCATIONAL OPPORTUNITIES AND ENHANCED TRAIL EXPERIENCES USING PROGRAMS AND OTHER MEDIA TO FOSTER EMOTIONAL AND INTELLECTUAL CONNECTIONS BETWEEN VISITORS AND AN AREA'S NATURAL AND CULTURAL RESOURCES. (SEE SECTION 604)

THE FOLLOWING PROVIDES A BRIEF DESCRIPTION OF EACH SIGN TYPE EMPLOYED ON THE MAMMOTH LAKES TRAIL SYSTEM:

TYPE 2

THE TYPE 2 SIGN FUNCTIONS AS A TRAIL INFORMATION KIOSK AND IS GENERALLY LOCATED AT TRAILHEADS AND ACCESS POINTS. THIS SIGN TYPE IS DOUBLE-SIDED AND PROVIDES USER WITH ORIENTATION AND NAVIGATION INFORMATION. THE FRONT SIDE OF THE SIGN INCLUDES THE FOLLOWING: A PRIMARY I.D., PRIMARY I.D. CLARIFIER, CHOICE OR THREE RECREATION SYMBOLS, WELCOME MESSAGE, FACILITY DESCRIPTION, LOCATION INFORMATION, USER ETHICS MESSAGING, RESCUE LOCATOR INFORMATION, AND A MAP. THE BACKSIDE OF THE SIGN DISPLAYS A SYSTEM-WIDE MAP OR THE MAMMOTH LAKES TRAILS SYSTEM.

TYPE 4/6

THE TYPE 4/6 SIGN FUNCTIONS AS AN INFORMATION AND GUIDE COMBINATION AND IS GENERALLY LOCATED AT CRITICAL INTERSECTIONS THROUGHOUT THE TRAIL SYSTEM. THIS SIGN TYPE CAN BE SINGLE OR DOUBLE-SIDED AND PROVIDES USERS WITH ORIENTATION AND NAVIGATION INFORMATION. EACH SIGN PANEL HAS THE OPPORTUNITY FOR THE FOLLOWING: A PRIMARY I.D., DESTINATIONS, ARROWS, SERVICE SYMBOLOGY, MILEAGE, RESCUE LOCATOR, AND A MAP.

TYPE 6

THE TYPE 6 SIGN FUNCTIONS AS A PRIMARY TRAIL GUIDE AND IS GENERALLY LOCATED AT KEY INTERSECTIONS WITH MULTIPLE DESTINATIONS. THIS SIGN TYPE CAN BE SINGLE OR DOUBLE-SIDED AND PROVIDES USERS WITH NAVIGATION INFORMATION. EACH SIGN PANEL HAS THE OPPORTUNITY FOR THE FOLLOWING: A PRIMARY I.D., DESTINATIONS, AN ARROW, SERVICE SYMBOLOGY, MILEAGE, RESCUE LOCATOR.

TYPE 6a

THE TYPE 6a SIGN FUNCTIONS AS A SECONDARY TRAIL GUIDE AND IS GENERALLY USED AS A REASSURANCE MARKER IN CLOSE PROXIMITY TO INTERSECTIONS AND OTHER DECISION POINTS. THIS SIGN TYPE CAN BE SINGLE OR DOUBLE-SIDED AND PROVIDES USERS WITH NAVIGATION INFORMATION. EACH SIGN PANEL HAS THE OPPORTUNITY FOR THE FOLLOWING: A DESTINATION, AN ARROWS, MILEAGE, RESCUE LOCATOR.

TYPE 7

THE TYPE 7 SIGN FUNCTIONS AS AN INTERPRETIVE SIGN THAT IS INTENDED TO PROVIDE TRAIL USERS WITH EDUCATIONAL OPPORTUNITIES AND ENHANCED TRAIL EXPERIENCES. THIS SIGN TYPE USES PROGRAMS AND OTHER MEDIA TO FOSTER EMOTIONAL AND INTELLECTUAL CONNECTIONS BETWEEN VISITORS AND AN AREA'S NATURAL AND CULTURAL RESOURCES.

TYPE 8

THE TYPE 8 SIGN INCLUDES ALL REGULATORY SIGNAGE. THESE REGULATORY SIGNS PROVIDE FOR PUBLIC SAFETY AND/OR INFORMATION ON KEY RULES FOR TRAIL USERS, INCLUDING BUT NOT LIMITED TO SPEED LIMITS, YIELDING PROCEDURES, AND APPROVED TRAIL USES.

MILEPOST

THE MILEPOST SIGN TYPE PROVIDES USERS WITH REGULARLY SPACED MILEAGE INFORMATION. THIS SIGN TYPE IS LOCATED AT THE ORIGIN OF A TRAIL SEGMENT AND THEN AT QUARTER-MILE INTERVALS THEREAFTER FOR THE ENTIRETY OF THE TRAIL. EACH MILEPOST DISPLAYS A TRAIL SYSTEM LOGO, PRIMARY I.D. ABBREVIATION, AND A MILEAGE NUMBER.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE DESCRIPTIONS

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: May 7, 2014

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TYPE 8

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TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE DESCRIPTIONS

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

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Sign Types

On the following pages are proposed updates for the “Sign Types” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

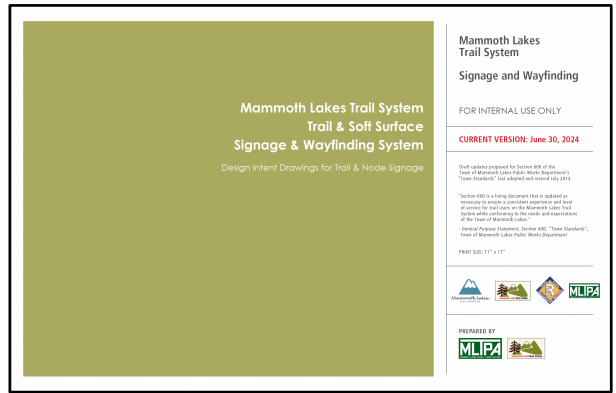
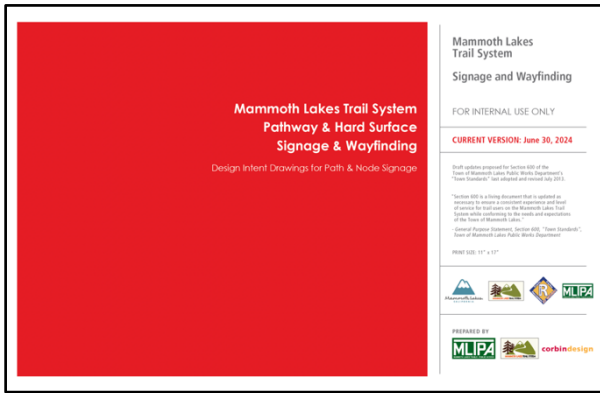


Sign Types

Sign Type Arrays for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town's Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

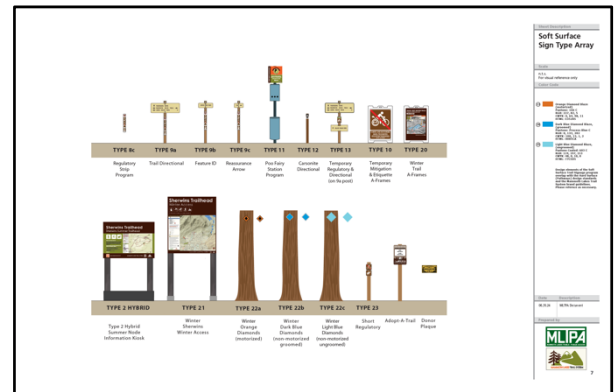
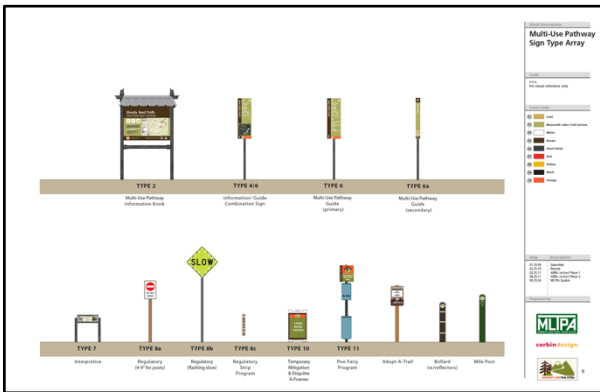
Hard Surface Design Intent + Soft Surface Design Intent

- Please see the current versions of the Mammoth Lakes Trail System “Pathway & Hard Surface” and “Trail and Soft Surface” design intent documents.
 - Date of Current Versions: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**
 - **115_06_DesignIntent_Trails_Soft Surface_240630_FINAL**



Sign Types

- Please see PDF page 8 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document and PDF Page 7 of the current Mammoth Lakes Trail System “Trail and Soft Surface” design intent documents. These same pages are included in this document on the pages that follow.



Sheet Description

Multi-Use Pathway Sign Type Array

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



corbindesign



Soft Surface Sign Type Array

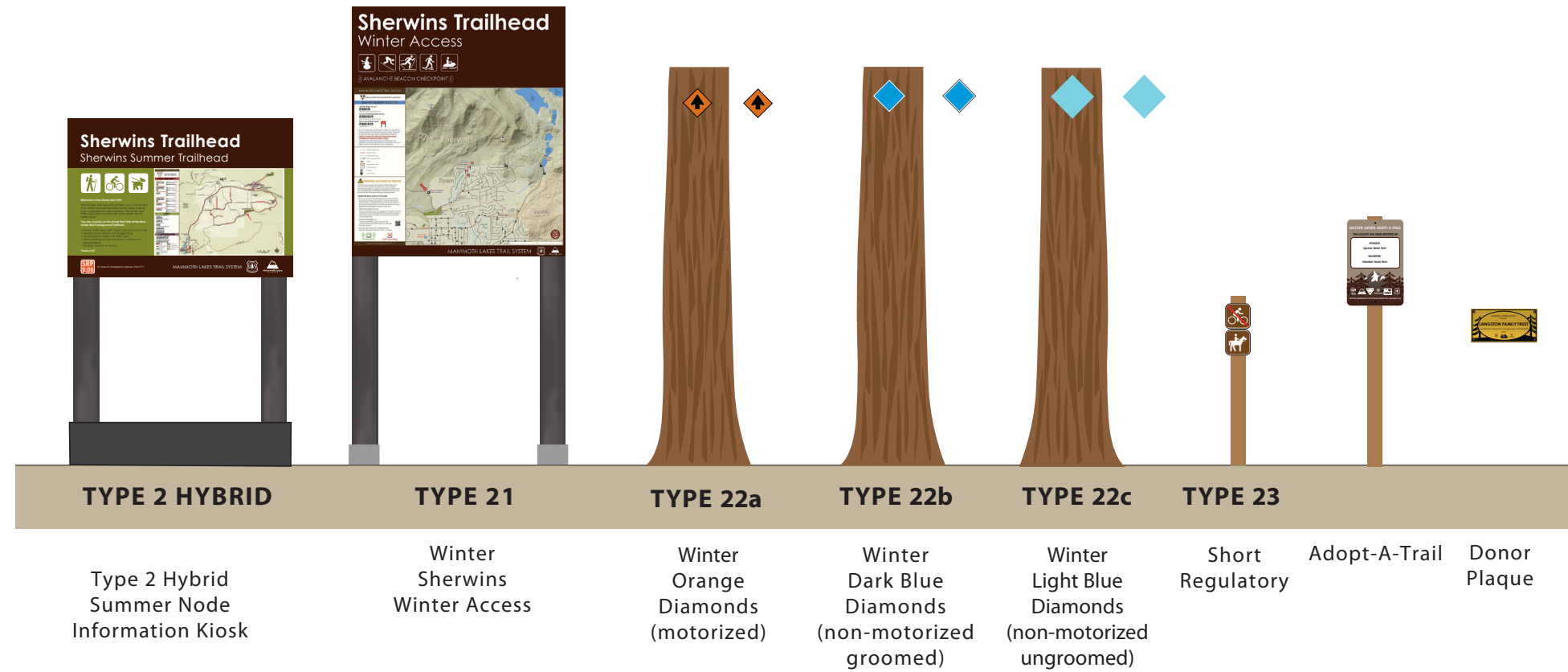
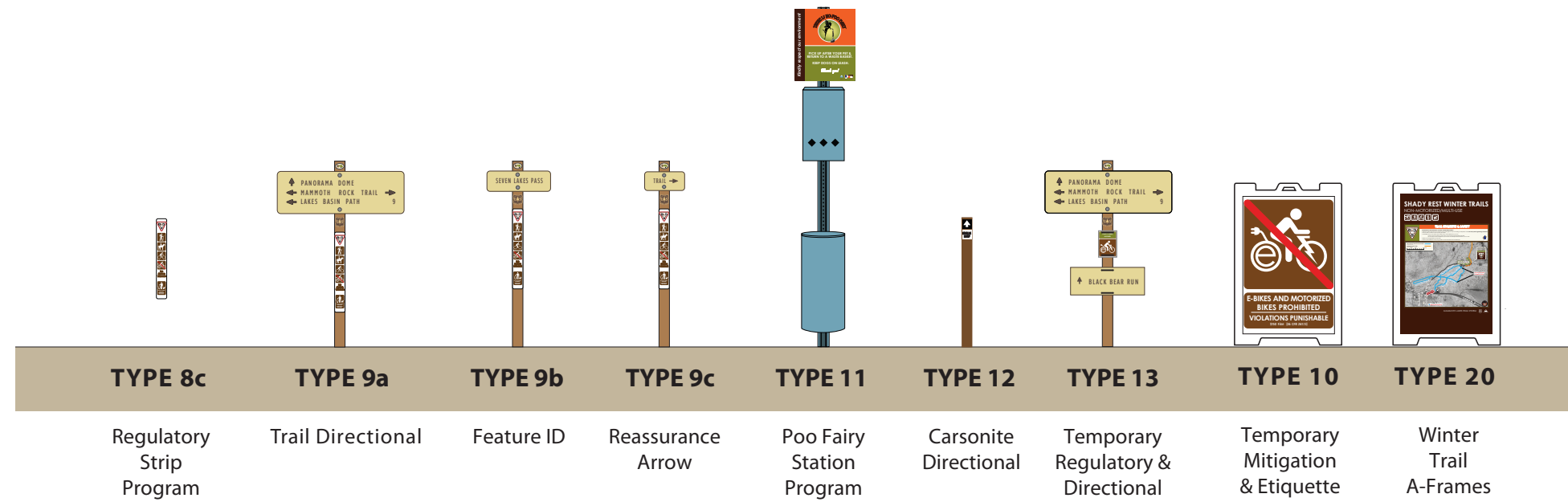
Scale

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

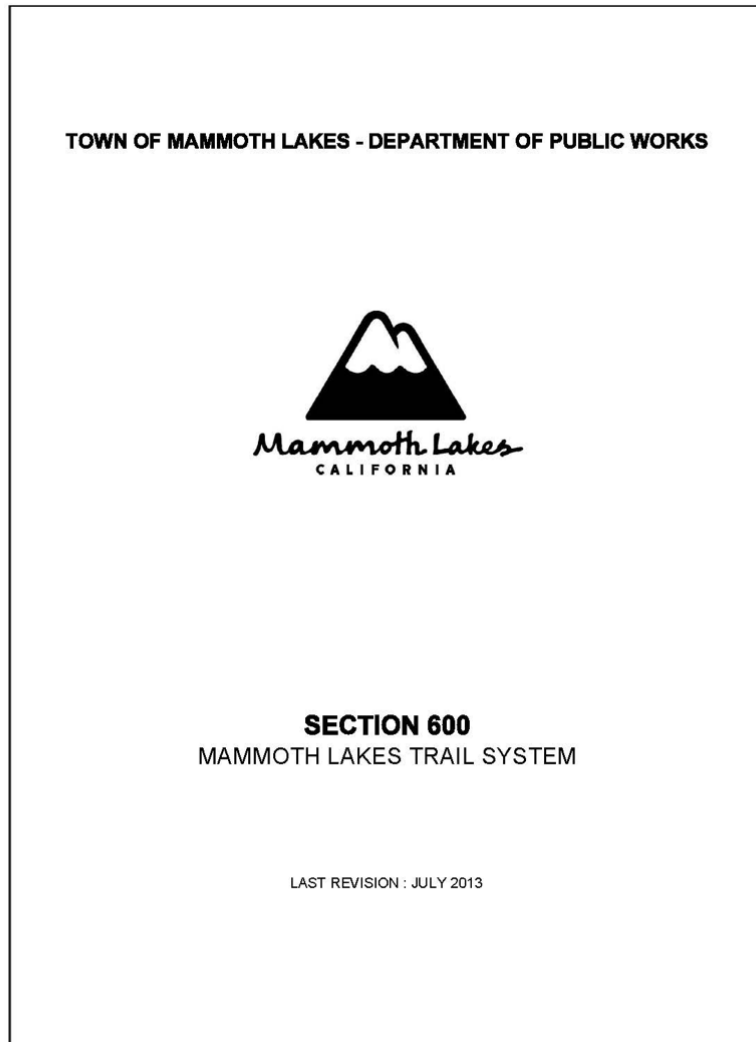
Prepared by

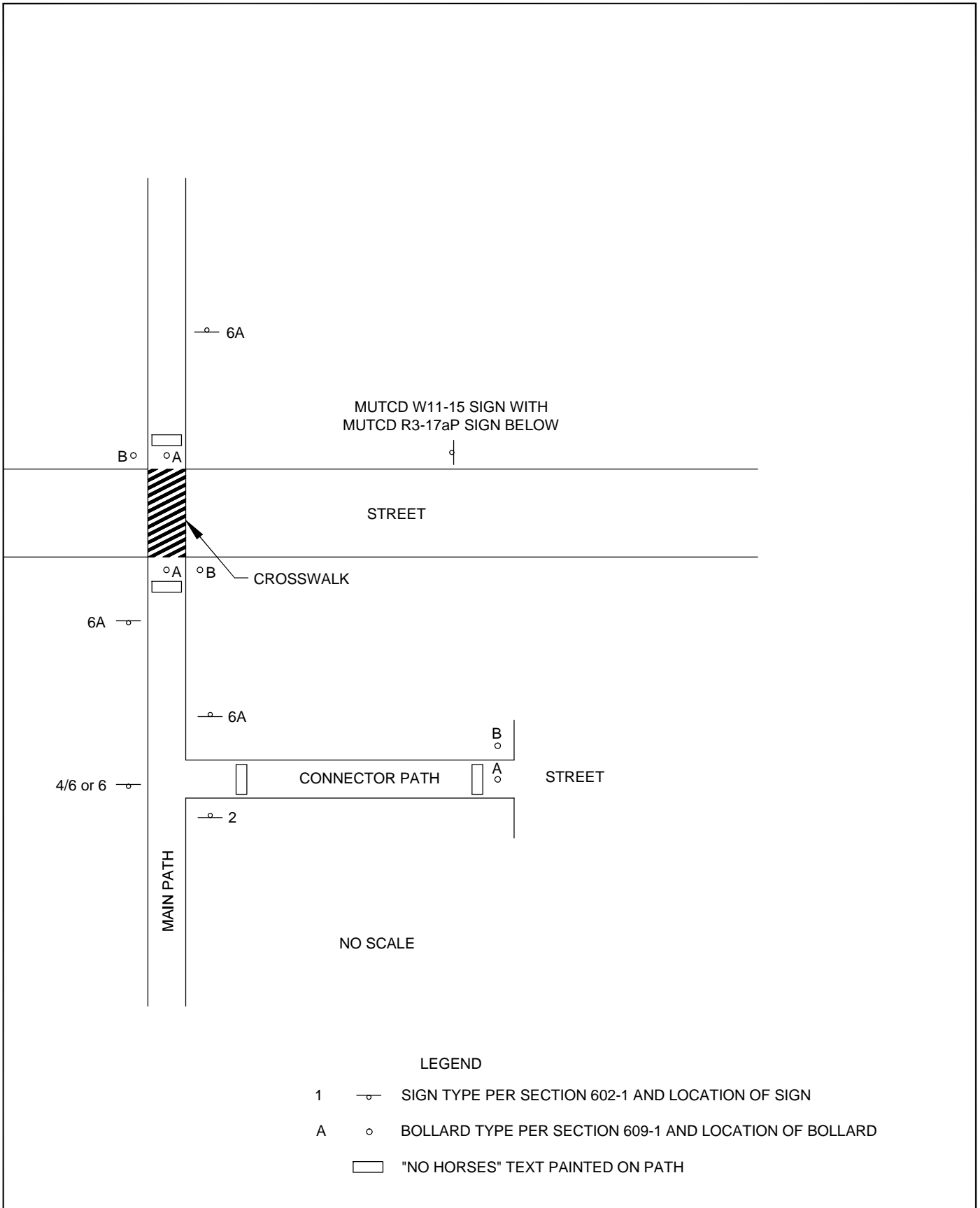


Sign Spacing

The “Sign Spacing” Section text from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

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TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN SPACING AND LOCATION

STANDARD PLAN

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PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

SHEET 4 OF 4

Sign Spacing

On the following pages are proposed updates for the “Sign Spacing” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

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Sign Placement Guidelines

Recommendations: March 29, 2019

Sign Placement Logic & Sequence of Encounter

This section provides the standards for sign spacing and sequence of encounter, the typical order in which trail users will encounter individual sign types along MLTS multi-use pathways.

**The standards expressed in this section are based on wayfinding scenarios encountered thus far by the MLTS. As the system of pathways expands, future scenarios not covered by these standards will need to be determined based on the best wayfinding logic for trail users at that particular location. Any new standards should be added to this section as they are finalized and implemented.*

Sign Placement & Hierarchy Guiding Principles

- Wayfinding signage should be apparent when you need it and transparent when you don't.
- Keep the pathway as natural and uncluttered as possible by keeping signage to a minimum and focused at decision points.
- Signage locations should be at portal and trailhead entrances/exits and decision points.
- Decision point examples include:
 - Trailheads
 - Points of entrance/exit on the trail:
 - Intersections with roads and driveways (ex: campground driveways)
 - Intersections with other Multi-Use Pathways
 - Intersections with MLTS Soft Surface Trails

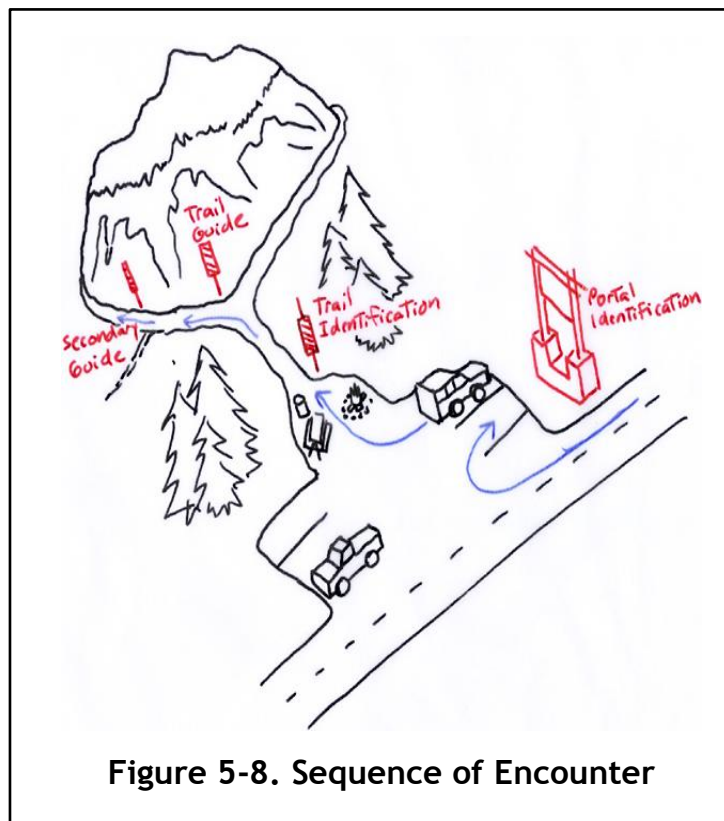
Individual Sign Type Placement Logic:

- **Type 2**
 - Located at trailheads and major points of access in locations where there is enough space for the associated "Type 2 Plaza."
 - The length of a pathway will inform the decision to install a Type 2. For shorter pathways a Type 2 may not be required.
- **Type 6**
 - Serves as a primary trail guide and is located at intersections with multiple destinations.
 - Absence of a map on this sign type allows this sign to list up to five destinations.
 - This sign should not be used in an area where a map would be needed by users.
- **Type 4/6**
 - This sign type serves as an information and guide combination sign located at critical intersections where both destination information and a map are needed by trail users for wayfinding and orientation.
 - Type 4/6 signs are typically used at major intersections and access points.
 - This sign type may be used at the beginning of a multi-use pathway such as on the Lake George Path and the Library – College Connector where there isn't enough space for a Type 2.
- **Type 6a**
 - Serves as a secondary trail guide and is used as a reassurance marker in close proximity to intersections/other decision points.

- but may be used to direct trail users to secondary entrance points.
 - May also be used to direct trail users to secondary entrance points.
 - Example: The Type 6a in front of Pokonobe Lodge directing trail users to the Lakes Basin Path.
- Type 6a signs are often used as reassurance for users when a multi-use pathway crosses a road.
- Multi-use pathways on steep terrain may require a double-side Type 6a for both uphill and downhill traffic at intersections with roads.
- Type 6a signs should be used sparingly.
- **Mileposts**
 - Indicate distance traveled on a multi-use pathway and occur every ¼ mile.
- **Type 7 - Interpretive**
 - Functions as an interpretive sign that is intended to provide users with educational opportunities and enhanced trail experiences.
 - Future discussion to integrate the aesthetic and look of the interpretive information with MLTS graphic standards.
 - This should be discussed at the next meeting with the USFS about interpretation on the Inyo National Forest.
- **Type 8 - Regulatory**
 - Regulatory signage placement standards and materials need to be standardized and updated in Section 600 so that MLTS and Public Works municipal signage systems function together

Sequence of Encounter:

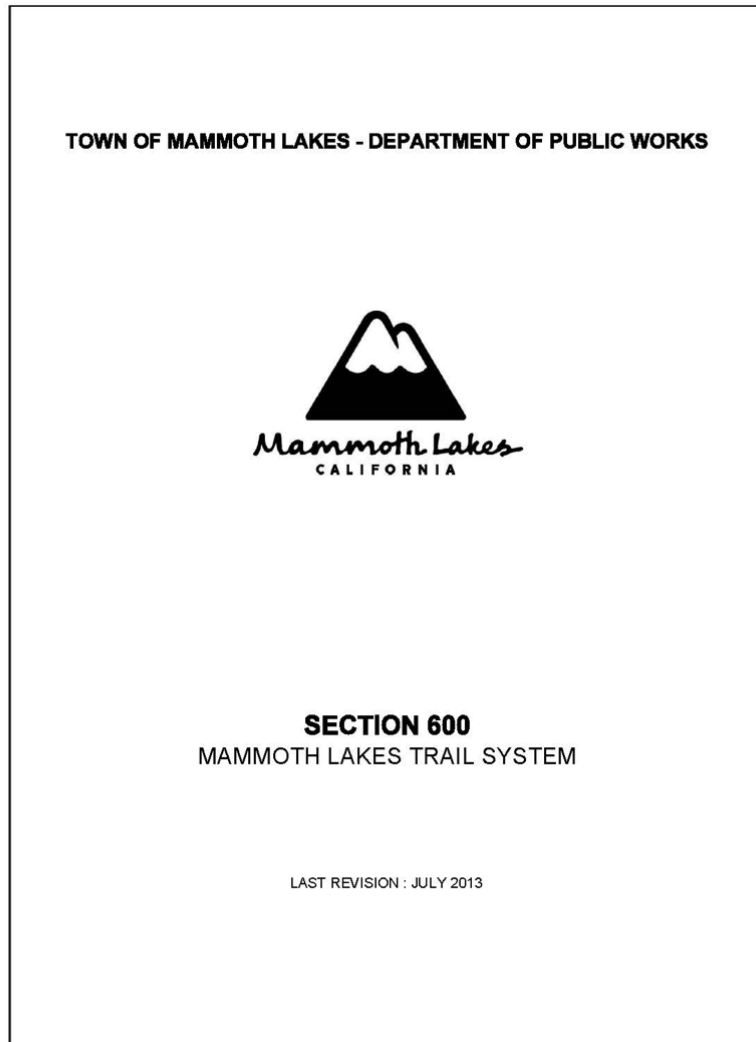
The diagram below lays out a simplified version of the order that a typical trail user will encounter the various sign types in the system. This sequence plays a large role in determining the type and amount of information that will be included on each sign type.

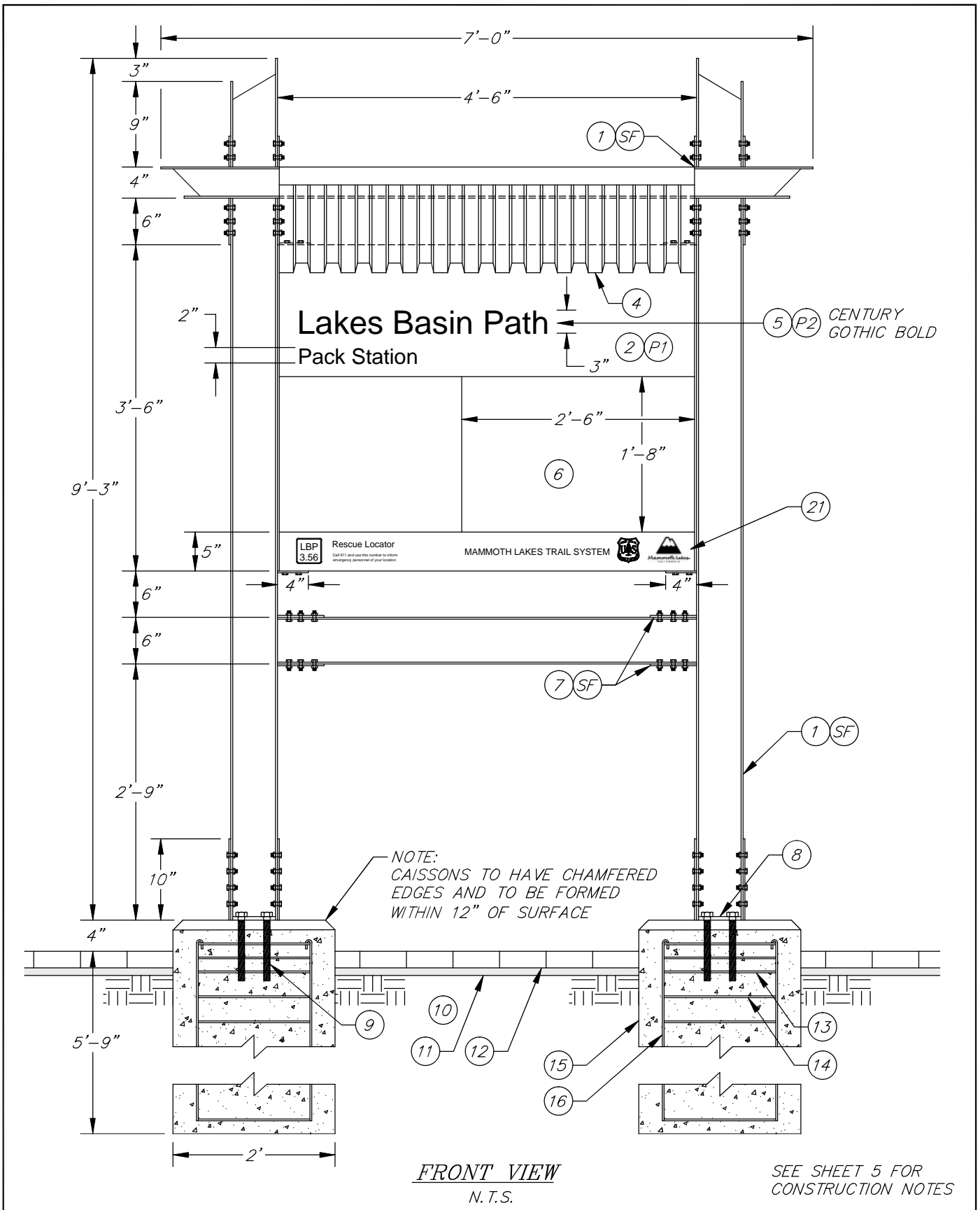


Wayfinding Signage: Type 2

“Wayfinding Signage: Type 2” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

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TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

SIGN TYPE 2 - FRONT VIEW

STANDARD PLAN

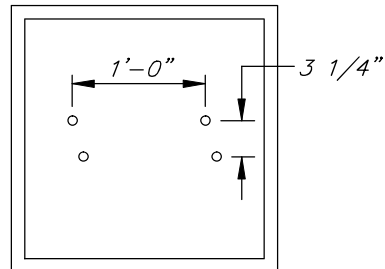
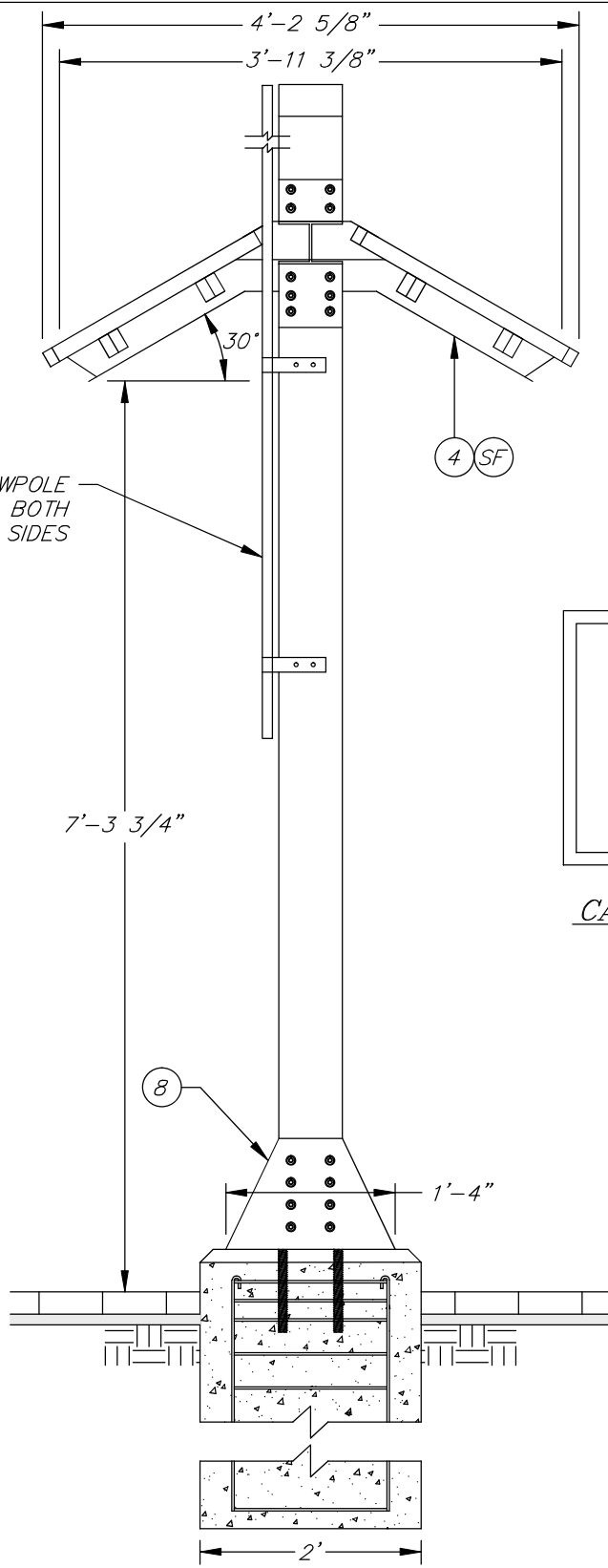
602-1

SHEET 1 of 15



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014



CAISSON PLAN
N.T.S.

SIDE VIEW
N.T.S.

SEE SHEET 5 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

SIGN TYPE 2 - SIDE VIEW

STANDARD PLAN

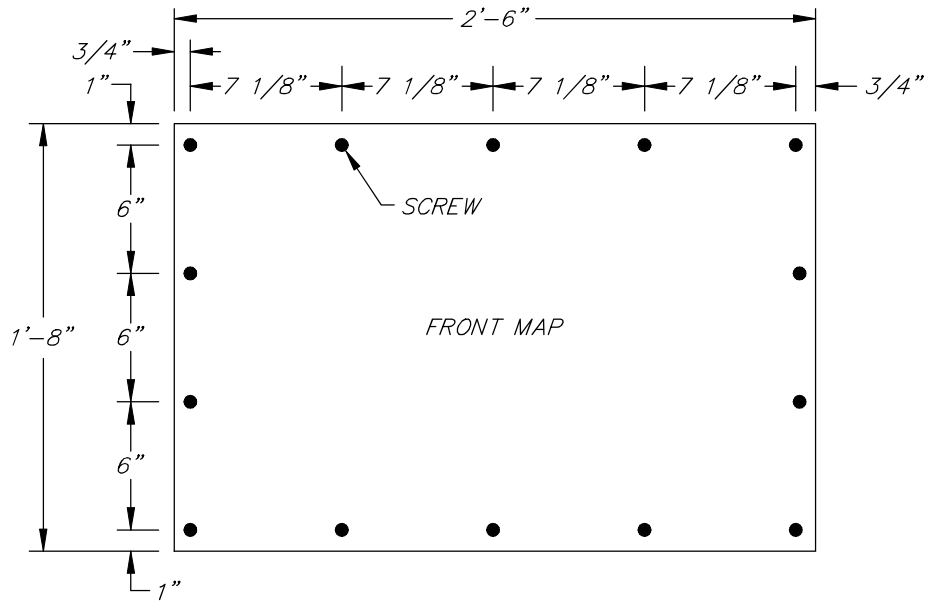
602-1

SHEET 2 of 15

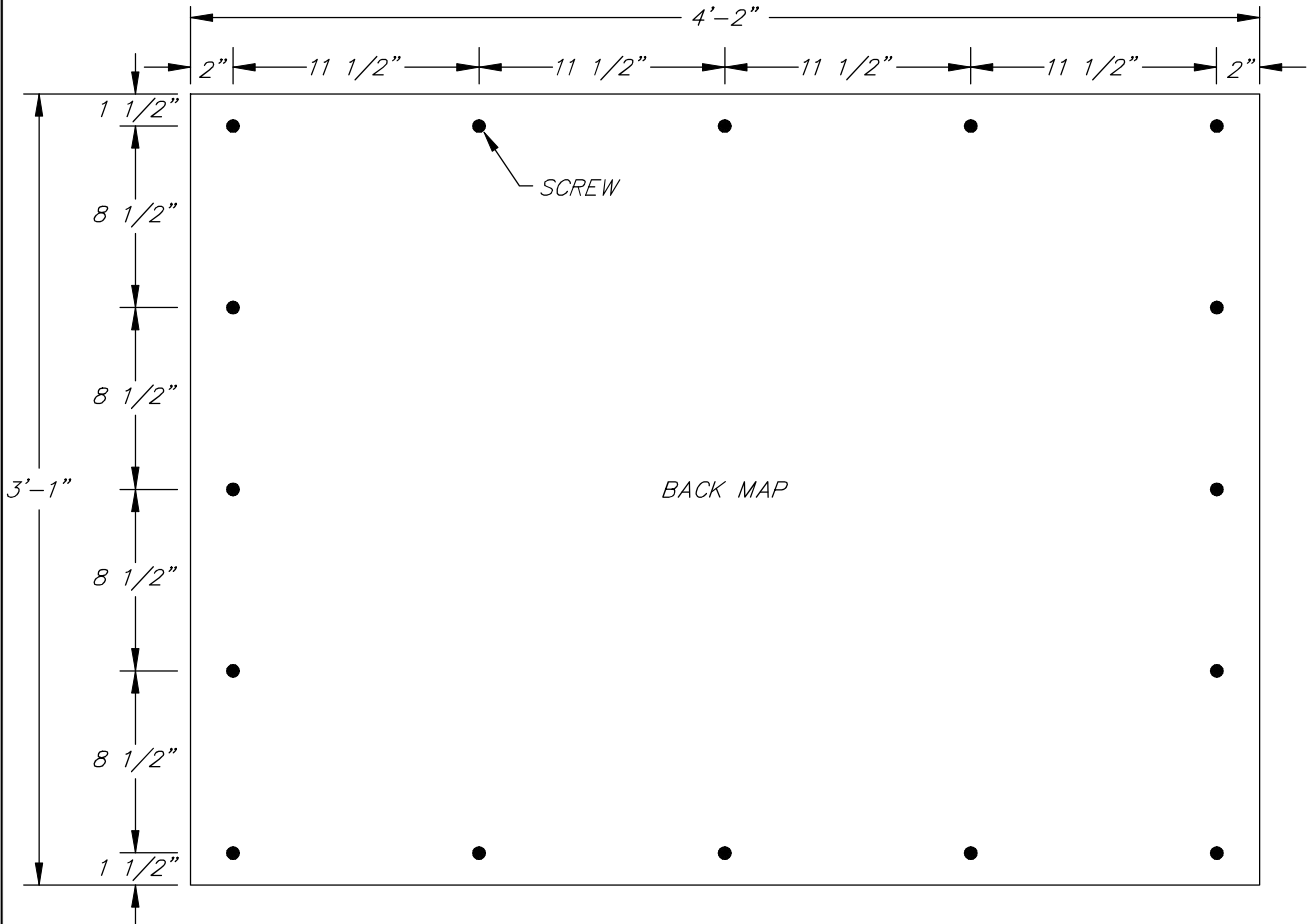


PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



FRONT MAP SCREW PLACEMENT
N.T.S.



BACK MAP SCREW PLACEMENT
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**SIGN TYPE 2
SCREW PLACEMENT**

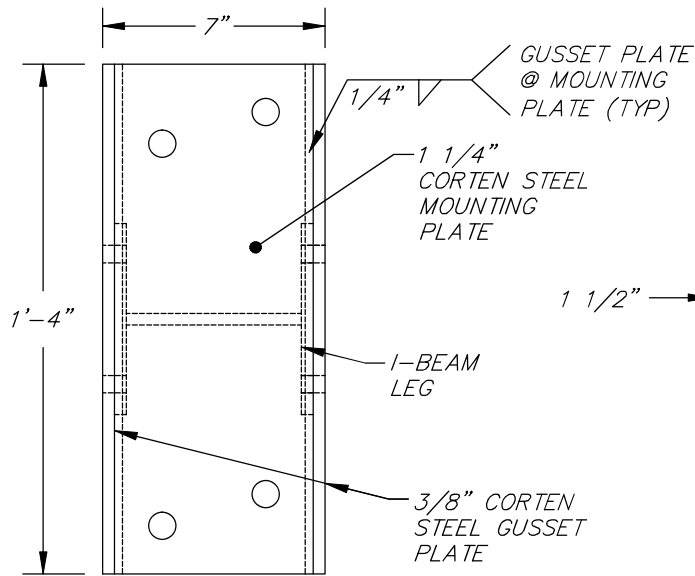
PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

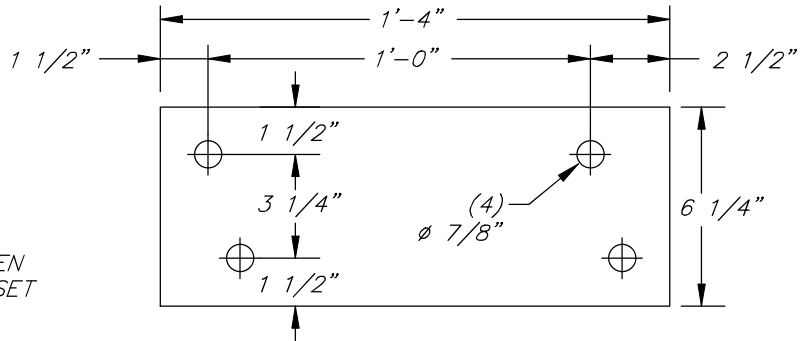
STANDARD PLAN

602-1

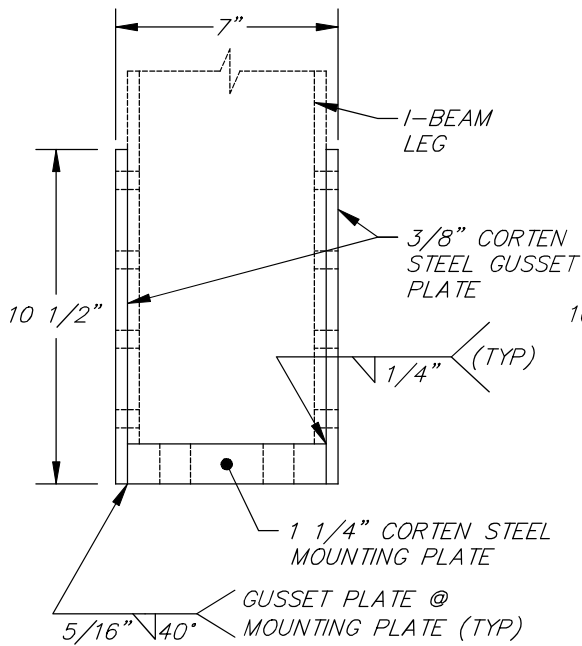
SHEET 3 of 15



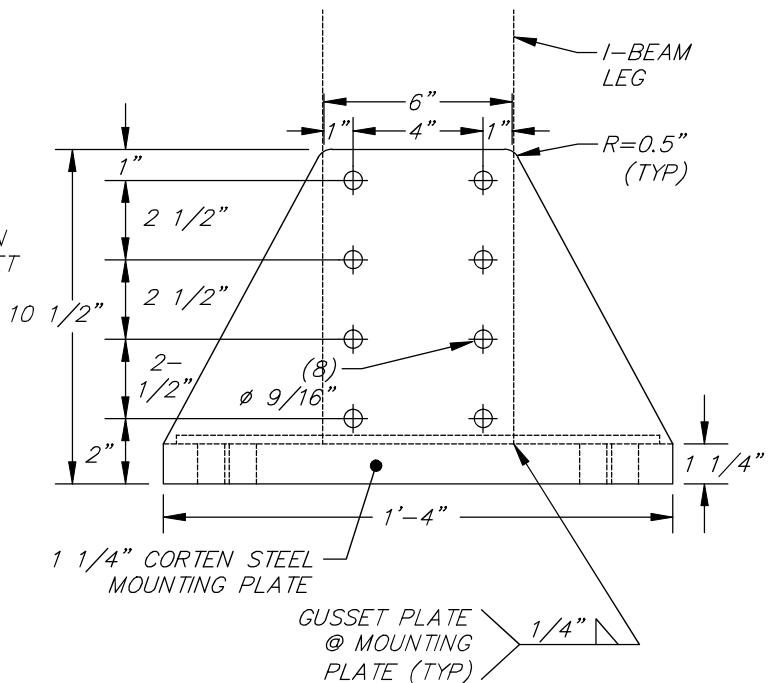
ASSEMBLED PLAN
N.T.S.



(ST-2) 1 1/4" STEEL MOUNTING PLATE
N.T.S.



ASSEMBLED FRONT VIEW
N.T.S.



(ST-2) STEEL GUSSET PLATE
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 2 SUPPORT BRACKET

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

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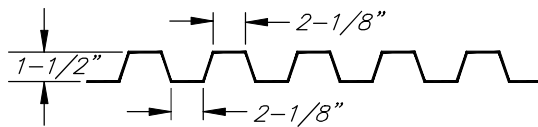
SHEET 4 of 15

○ CONSTRUCTION NOTES

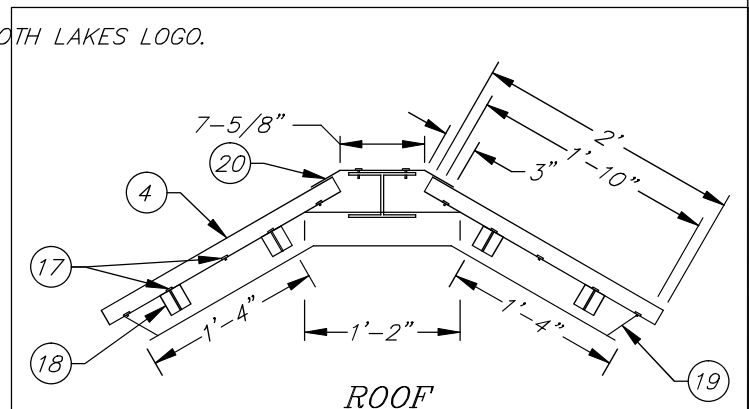
1. STRUCTURE – W-6" X 15 LBS CORTEN I-BEAM.
 2. SIGN FACES – 1/8" ALUMINUM OVER SIGNCOMP SIGN EXTRUSIONS SERIES 3 ACCESS BODY PART # 1290, BLEED COVER PART # 1692. PAINT BARRIER BETWEEN DISSIMILAR MATERIAL.
 3. BACK MAP – 1/8" THICK FIBERGLASS PANEL WITH IMBEDDED INK-JET GRAPHICS. PRINTED AT 600 DPI USING EXTERIOR UV INHIBITING INKS.
 4. ROOF – S-3" X 5.7 LBS I-BEAM WITH BOX BEAM CORRUGATED T-304 (16 GA.) GALVANIZED METAL ROOFING WITH MILL FINISH.
 5. GRAPHIC – COPY OVER PAINTED BACKGROUND.
 6. MAP – 1/8" THICK FIBERGLASS PANEL WITH IMBEDDED INK-JET GRAPHICS. PRINTED AT 600 DPI USING EXTERIOR UV INHIBITING INKS.
 7. MOUNTING BRACKET – 1/4" THICK CORTEN STEEL PLATE WITH 1/2" BLACK OXIDE BOLTS.
 8. POST SUPPORT BRACKET – 3/8" THICK STEEL SIDE GUSSETS WELDED TO 1 1/4" THICK STEEL MOUNTING PLATE.
 9. MOUNTING – 3/4" EPOXIED ANCHORS @ MIN 12" EMBEDMENT IN CONCRETE CAISSON AS REQUIRED.
 10. 6" MIN COMPACTED CLASS II BASE.
 11. 1" MIN WASHED SAND.
 12. INTER-LOCKING PAVERS.
 13. #3 TIES @ TOP 5", 3" MIN CLEAR, TYP.
 14. REMAINING #3 TIES @ 6" O.C., 3" MIN CLEAR, TYP.
 15. CONSOLIDATED CONCRETE, $f_c=3,000$ PSI
 16. #6 VERTICAL TIES, 3" MIN CLEAR, TYP.
 17. 1/4" HEX ACON STAINLESS STEEL BOLT, NUT, AND WASHER.
 18. ROOF CROSS SUPPORTS – 2"x2"x1/4" CORTEN STEEL SQUARE TUBE.
 19. ROOF SUPPORTS – 3"x3" CORTEN I-BEAM.
 20. 16 GAGE GALVANIZED ROOF CAP.
- LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.

○ COLOR SPECIFICATIONS

- | | |
|-----|---|
| P-1 | P.T.M. MAP #MP00857 BROWN W/
(SATIN) CLEAR COAT |
| P-2 | P.T.M. MAP #MP0081 MAMMOTH
LAKES TRAIL SYSTEM GREEN W/
(SATIN) CLEAR COAT |
| SF | STEEL FINISH = NATURAL FINISH |



④ ROOF
N.T.S.



ROOF
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 2
ROOF AND CONSTRUCTION NOTES

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]* DATE: **May 7, 2014**

STANDARD PLAN
602-1
SHEET 5 of 15

Wayfinding Signage: Type 2

On the following pages are proposed updates for the “Wayfinding Signage: Type 2” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

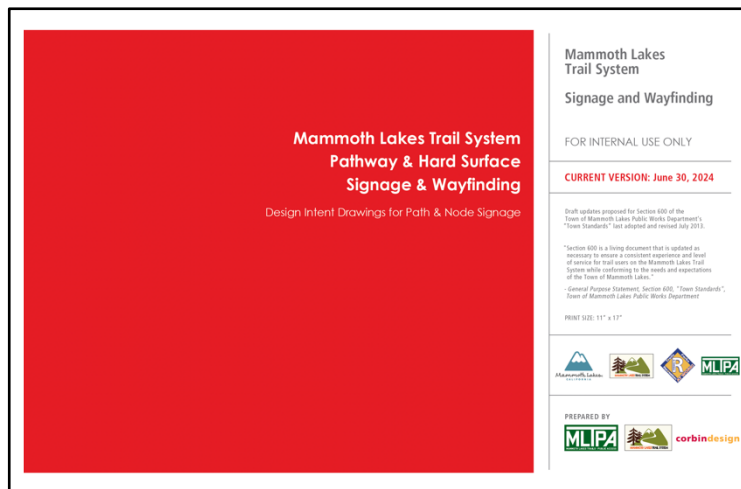


Wayfinding Signage: Type 2

Specifications for “Wayfinding Signage: Type 2” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of design intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

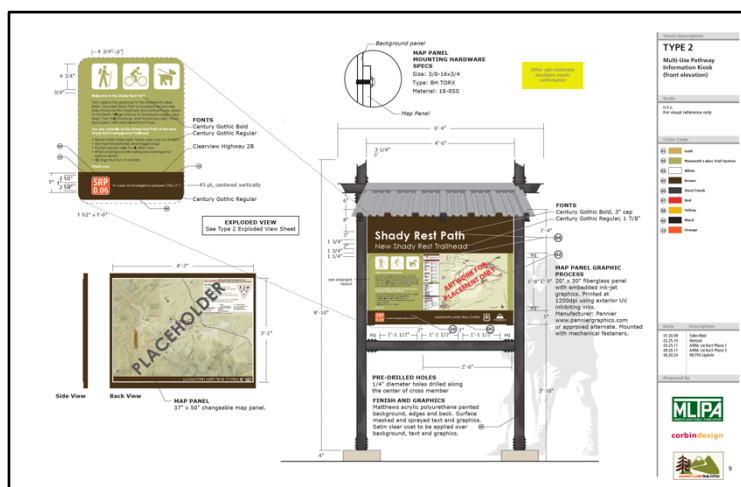
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document.
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Wayfinding Signage - Type 2

- Please see PDF pages 9, 10, and 11 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. These same pages are included in this document on the pages that follow.



TYPE 2

Multi-Use Pathway
Information Kiosk
(front elevation)

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

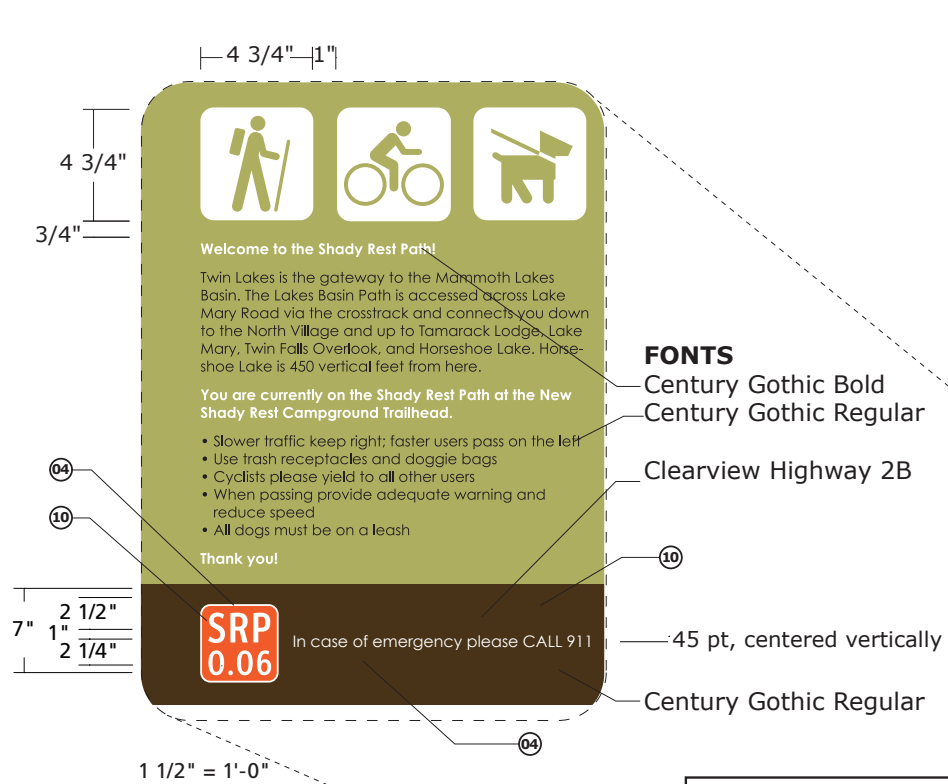
Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

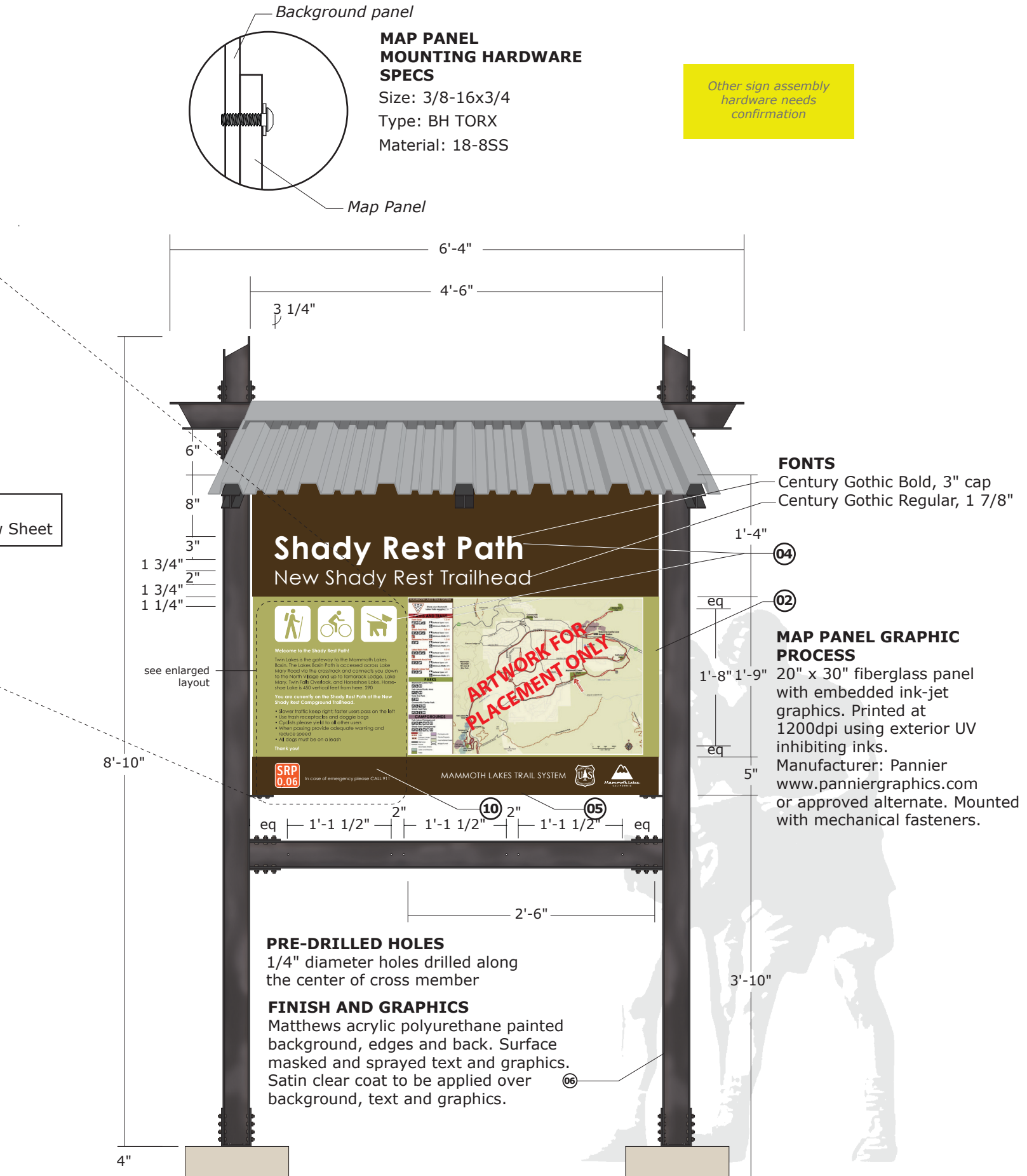
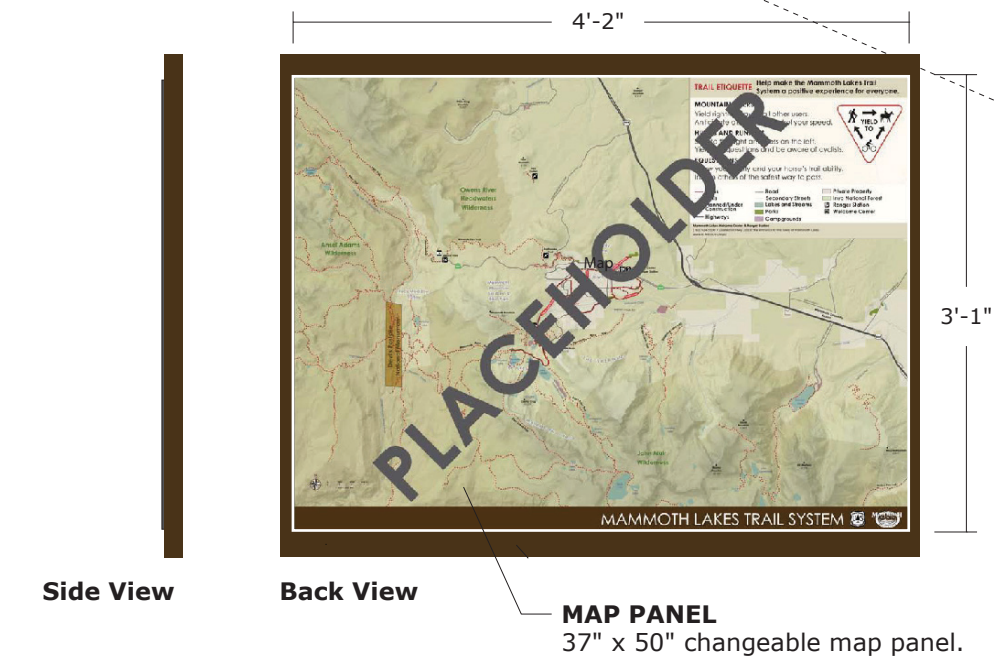
Prepared by



corbindesign



EXPLODED VIEW
See Type 2 Exploded View Sheet



Supplemental Panels for Lower Cross Member

For Sign Type 2

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

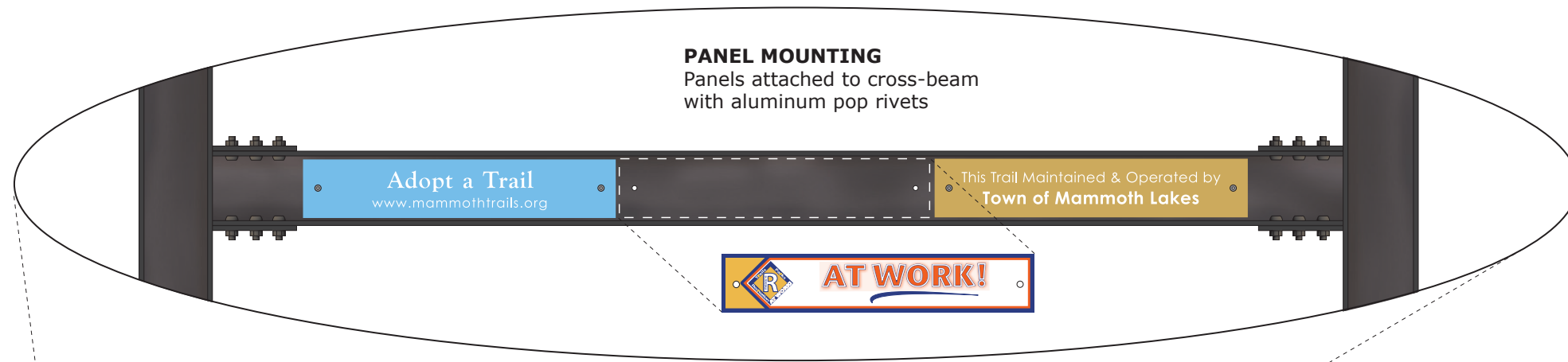
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

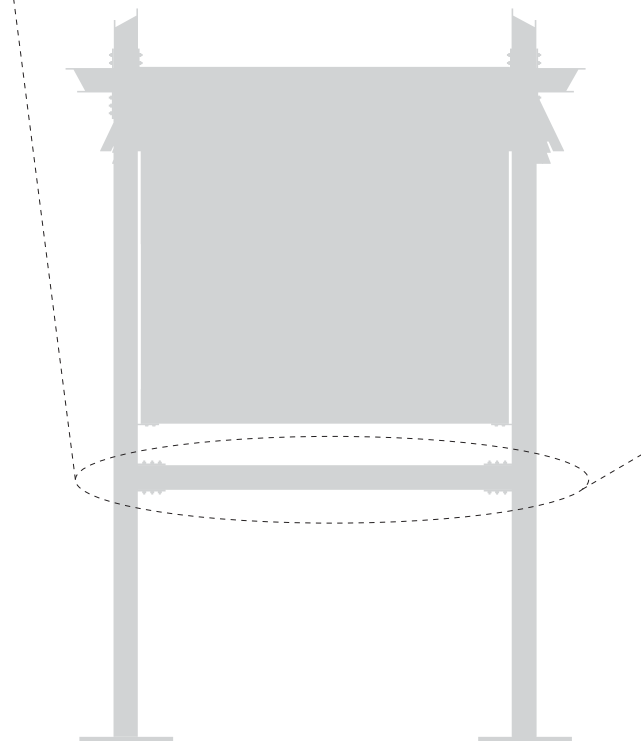
Date Description



corbindesign



1 1/2" = 1'-0"



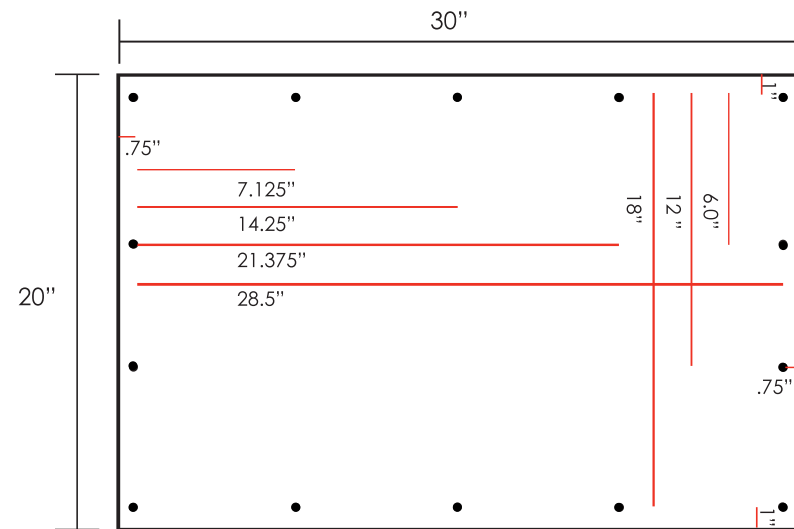
Sign Silhouette



PANELS

1/8" aluminum panels with holes to align with holes in cross beam

LAYOUT EXAMPLES

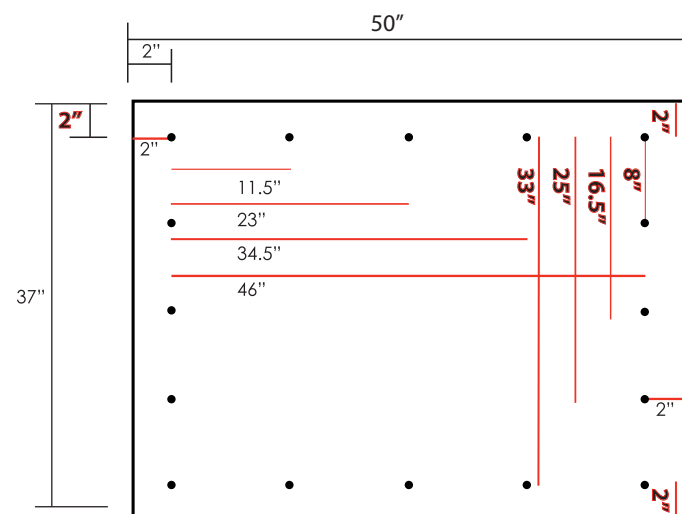


**SIGN TYPE 2
FRONT MAP PANEL SCREW PATTERN SPECIFICATIONS:**

Front Map: 20" x 30"

Horizontal Screw Pattern Spacing (top and bottom of panel): 5 screws
Vertical Screw Pattern Spacing (left and right of panel): 4 screws

Horizontal screws holes are set in .75" from edge of panel
Vertical screw holes are set in 1" from edge of panel

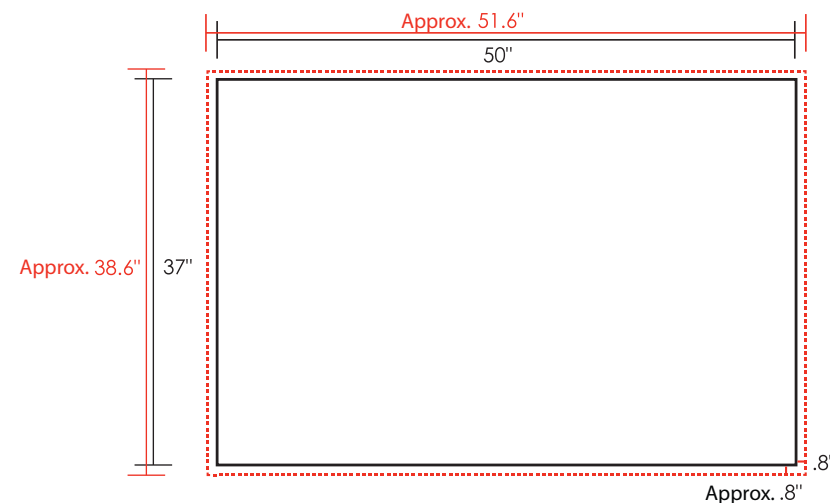


**SIGN TYPE 2
BACK "BIG" MAP PANEL SCREW PATTERN SPECIFICATIONS:**

Back Map: 50" x 37"

Horizontal Screw Pattern Spacing (top and bottom of panel): 6 screws
Vertical Screw Pattern Spacing (left and right of panel): 4 screws

Horizontal screws holes are set in 2" from edge of panel
Vertical screw holes are set in 2" from edge of panel



**SIGN TYPE 2
BACK PANEL PRINT BLEED AREA**

File Dimensions: 51.6" x 38.6"
Trim Dimensions: 50" x 37"
Bleed Dimensions: **Bleed TBD by Manufacturer**

NOTE: Files will be created anticipating that a border cannot be accurately created during the final cut/bleed process.

The final file will be exported as a vector PDF with 300 dpi resolution images imbedded in the file. The file will be delivered in either a CMYK or RGB format depending on the printer's preference.

Sheet Description

TYPE 2

**Multi-Use Pathway
Information Kiosk**

Map Mounting Screw Placement
and Map Bleed Area Details

Scale

n.t.s.
For visual reference only

VERIFIED BY MLTPA - 2019

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



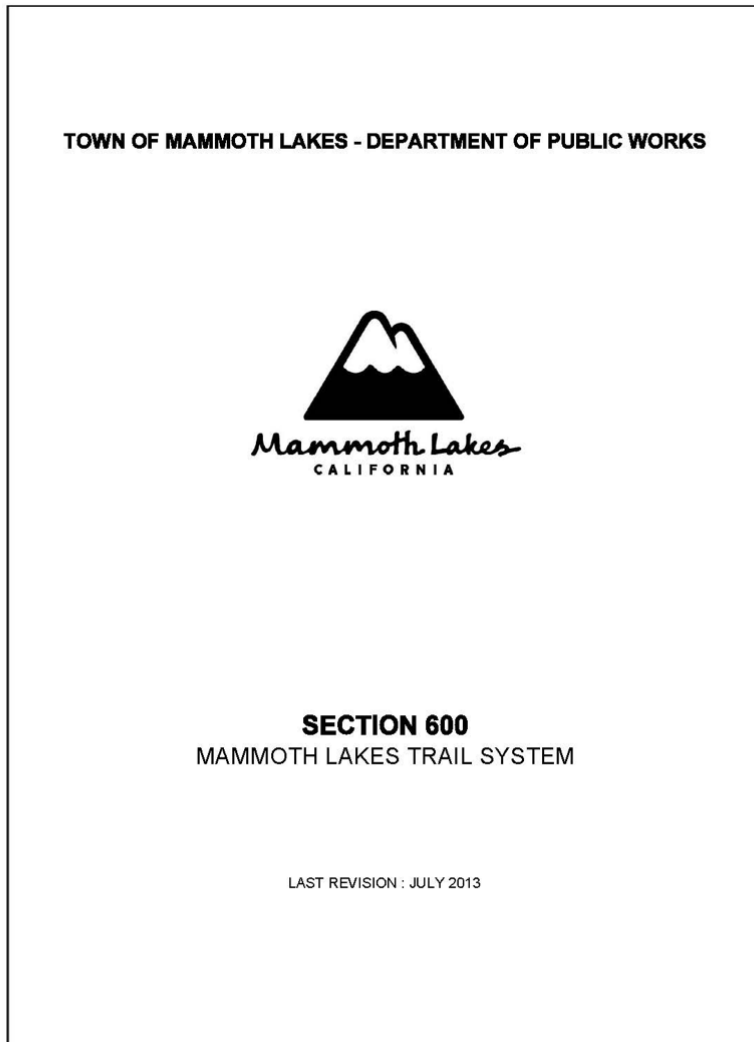
corbindesign

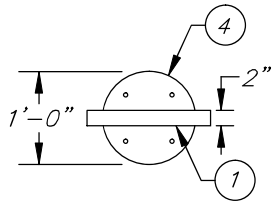


Wayfinding Signage: Type 4-6

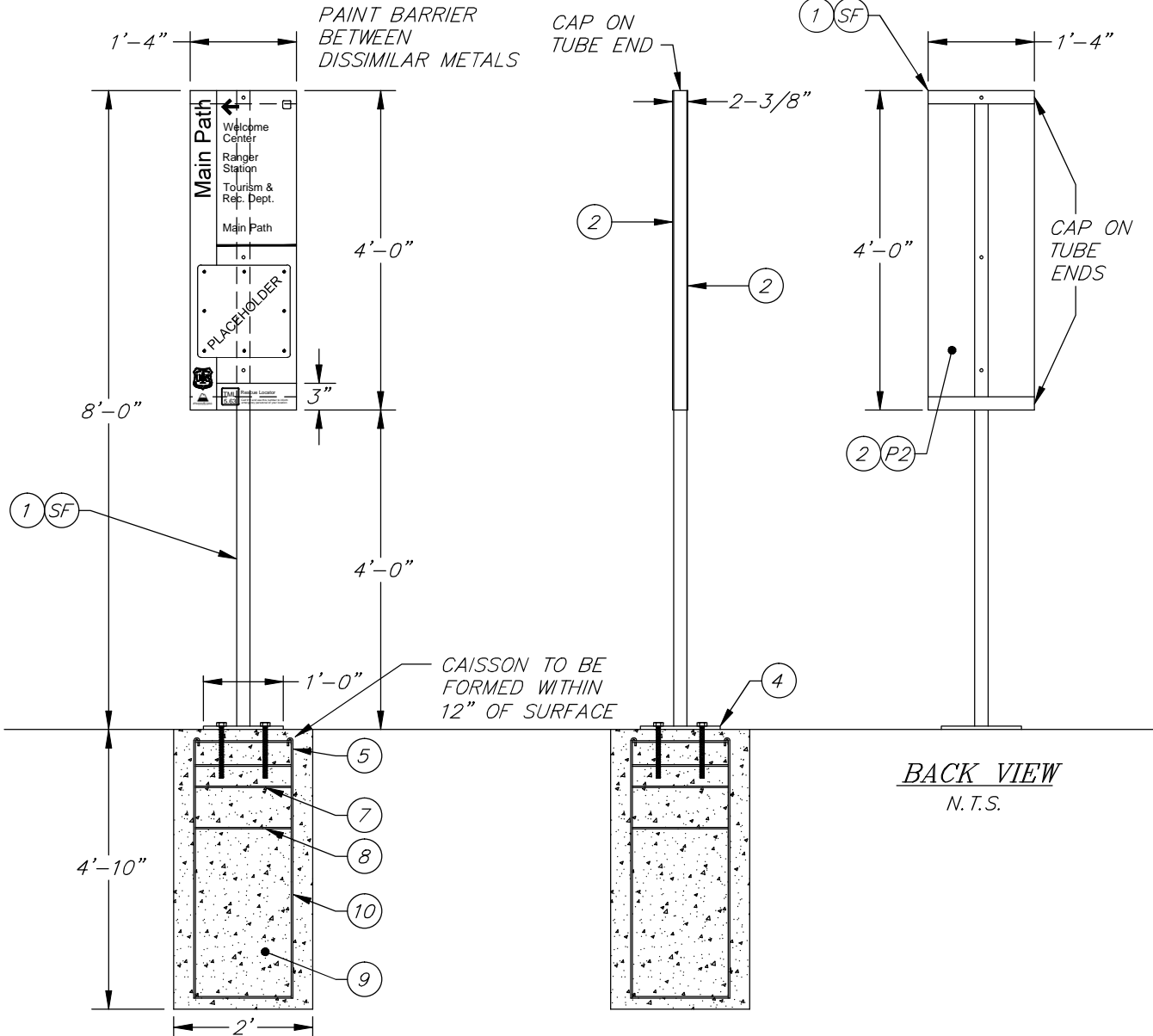
“Wayfinding Signage: Type 4-6” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.





PLAN VIEW
N.T.S.



FRONT VIEW
N.T.S.

SIDE VIEW
N.T.S.

BACK VIEW
N.T.S.

SEE SHEET 9 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

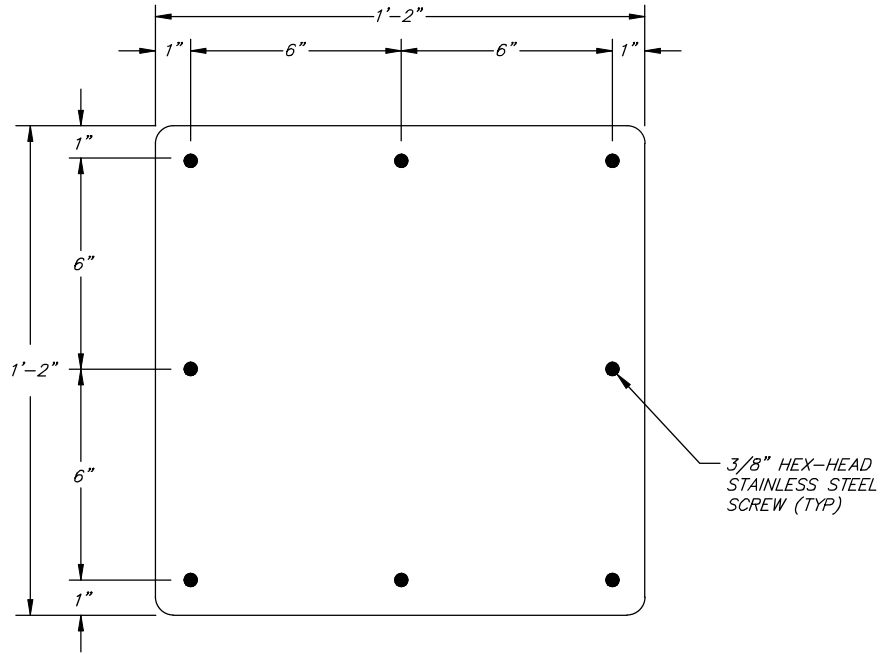


SIGN TYPE 4/6

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

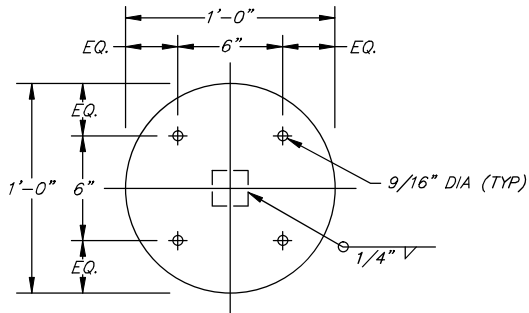
DATE: **May 7, 2014**

STANDARD PLAN
602-1
SHEET 6 of 15



3/8" HEX-HEAD
STAINLESS STEEL
SCREW (TYP)

MAP SCREW
HOLE PLACEMENT
N.T.S.



1/2" STEEL
MOUNTING PLATE
N.T.S.

SEE SHEET 9 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**SIGN TYPE 4/6 MAP SCREW HOLE
PLACEMENT AND MOUNTING PLATE**

STANDARD PLAN

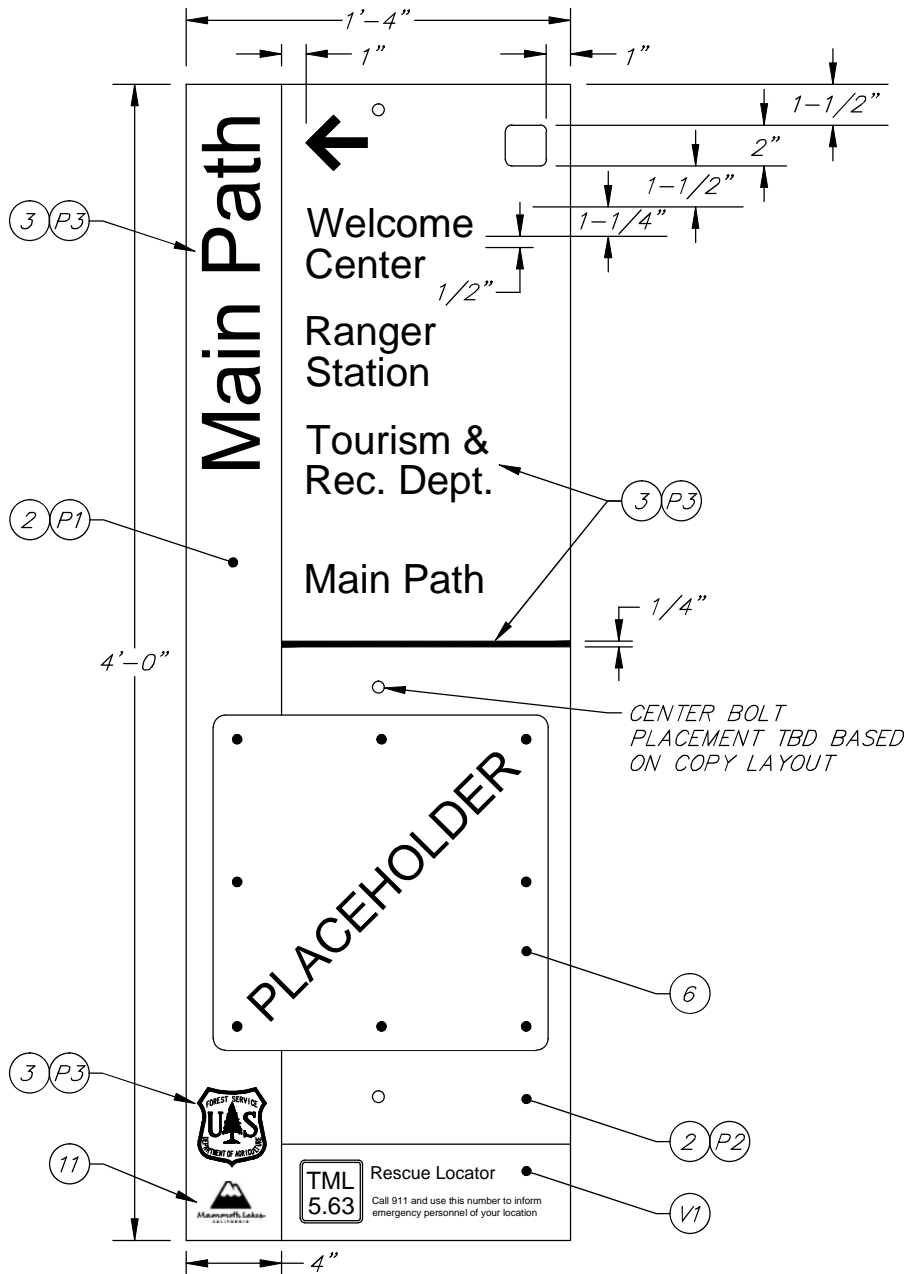
602-1

SHEET 7 of 15



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



FRONT VIEW
N.T.S.

SEE SHEET 9 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 4/6 - EXAMPLE

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 8 of 15

○ CONSTRUCTION NOTES

1. POST AND FRAME – 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE.
2. SIGN FACE – 3/16" ALUMINUM DRILLED AND TAPPED TO SQ. TUBE WITH 1/4"-20 SS TAMPER PROOF BOLTS PAINTED TO MATCH BACKGROUND. PAINT BARRIER BETWEEN DISSIMILAR METAL.
3. GRAPHIC – PAINTED COPY OVER PAINTED BACKGROUND.
4. SUPPORT PLATE – 1/2" THICK STEEL PLATE WELDED TO BOTTOM OF 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE POST.
5. MOUNTING – 1/2" EPOXIED ANCHORS @ MIN 12" EMBEDMENT IN CONCRETE CAISSON AS REQUIRED.
6. MAP PANEL AND GRAPHICS – 14" X 14" THICK FIBERGLAS WITH IMBEDDED INK-JET GRAPHICS MOUNTED TO FACE WITH SS TAMPER RESISTANT HARDWARE. PAINTED AT 600 DPI USING EXTERIOR UV INHIBITING INKS. BY PANNIER GRAPHICS.
7. #3 TIES @ TOP 5", 3" MIN CLEAR, TYP.
8. REMAINING #3 TIES @ 6" O.C., 3" MIN CLEAR, TYP.
9. CONSOLIDATED CONCRETE, $f_c=3,000$ PSI
10. #6 VERTICAL TIES, 3" MIN CLEAR, TYP.
11. LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.

○ COLOR SPECIFICATIONS

- P-1 P.T.M. MAP #MP00857 BROWN W/ (SATIN) CLEAR COAT
- P-2 P.T.M. MAP #MP00811 (MAMMOTH LAKES TRAIL SYSTEM GREEN W/ (SATIN) CLEAR COAT
- P-3 P.T.M. MAP #MP11477 WHITE W/ (SATIN) CLEAR COAT
- V1 3M 7725-14 BRIGHT ORANGE W/ (SATIN) CLEAR COAT
- SF STEEL FINISH = NATURAL FINISH

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 4/6 - NOTES

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

602-1

SHEET 9 of 15

Wayfinding Signage: Type 4-6

On the following pages are proposed updates for the “Wayfinding Signage: Type 4-6” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

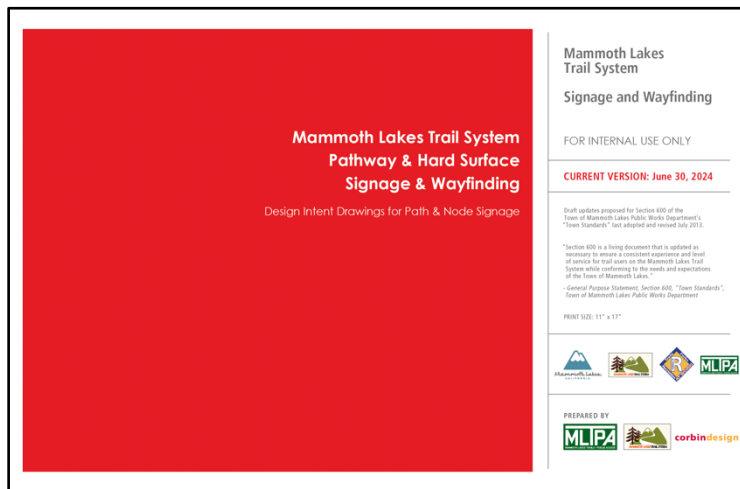


Wayfinding Signage: Type 4-6

Specifications for “Wayfinding Signage: Type 4-6” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

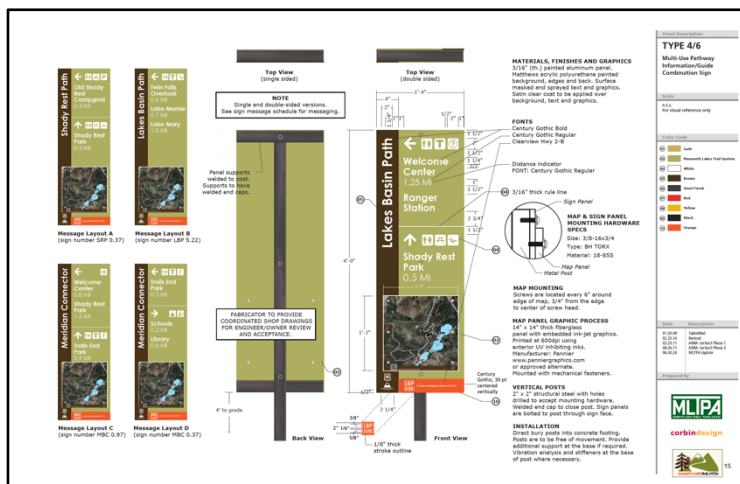
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Wayfinding Signage: Type 4-6

- Please see PDF pages 15 and 16 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. These same pages are included in this document on the pages that follow.



TYPE 4/6

Multi-Use Pathway Information/Guide Combination Sign

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



corbindesign



MATERIALS, FINISHES AND GRAPHICS

3/16" (th.) painted aluminum panel.
Matthews acrylic polyurethane painted background, edges and back. Surface masked and sprayed text and graphics. Satin clear coat to be applied over background, text and graphics.

FONTS

Century Gothic Bold
Century Gothic Regular
Clearview Hwy 2-B

Distance indicator
FONT: Century Gothic Regular

04 3/16" thick rule line

MAP & SIGN PANEL MOUNTING HARDWARE SPECS

Size: 3/8-16x3/4
Type: BH TORX
Material: 18-8SS

MAP MOUNTING

Screws are located every 6" around edge of map, 3/4" from the edge to center of screw head.

MAP PANEL GRAPHIC PROCESS

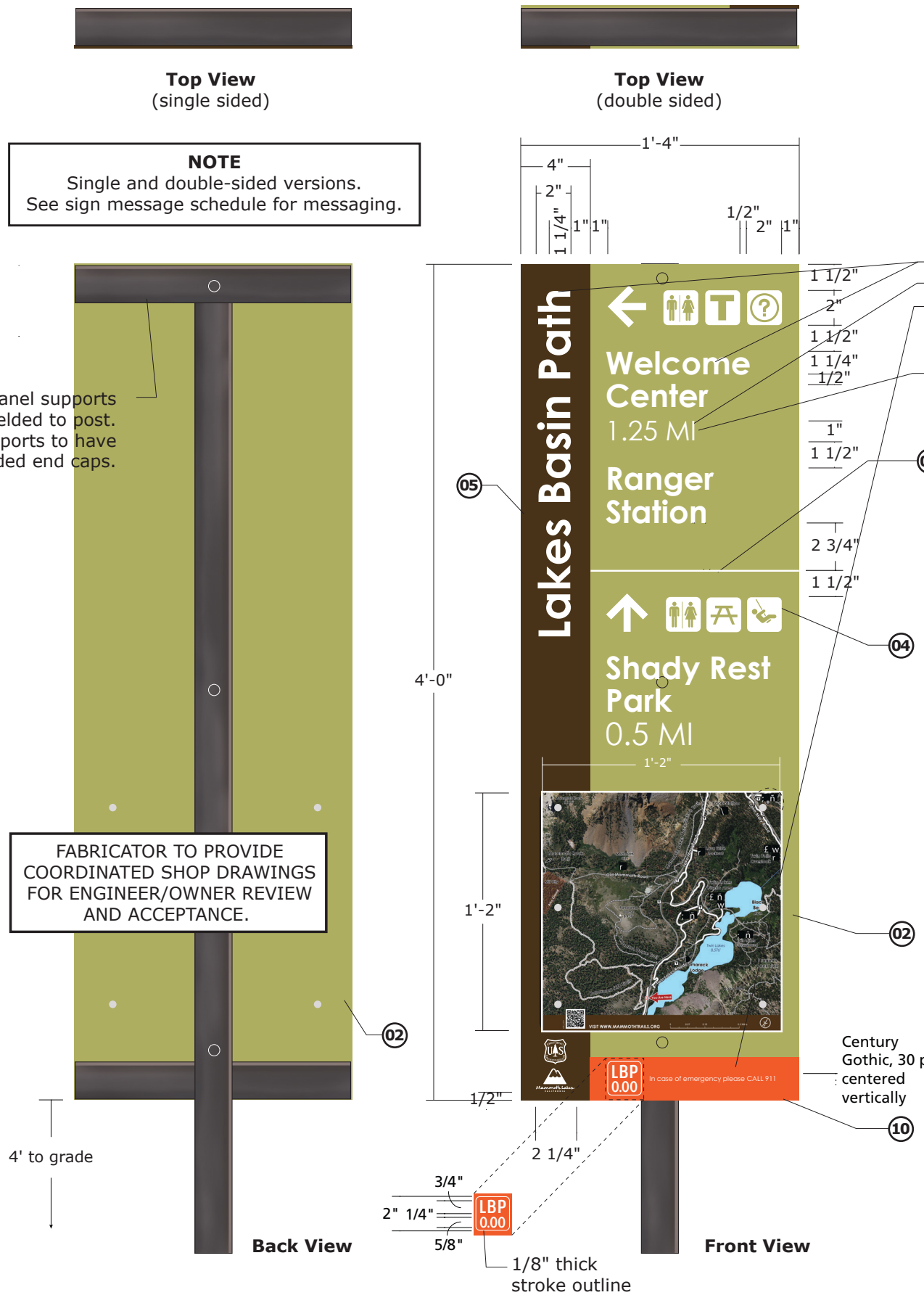
14" x 14" thick fiberglass panel with embedded ink-jet graphics. Printed at 600dpi using exterior UV inhibiting inks. Manufacturer: Pannier www.panniergraphics.com or approved alternate. Mounted with mechanical fasteners.

VERTICAL POSTS

2" x 2" structural steel with holes drilled to accept mounting hardware. Welded end cap to close post. Sign panels are bolted to post through sign face.

INSTALLATION

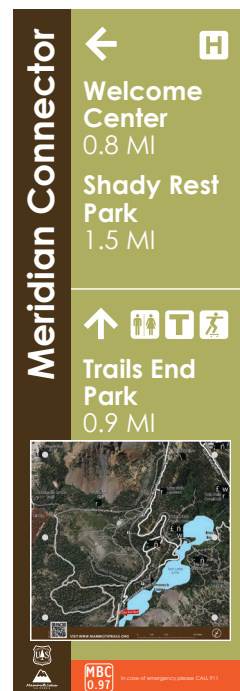
Direct bury posts into concrete footing. Posts are to be free of movement. Provide additional support at the base if required. Vibration analysis and stiffeners at the base of post where necessary.



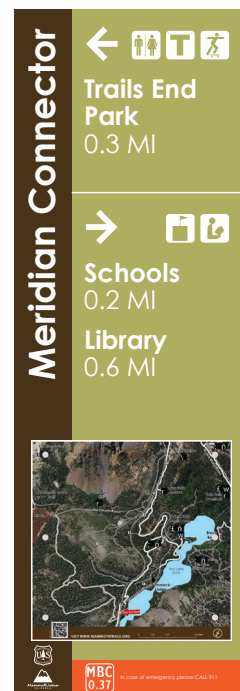
Message Layout A
(sign number SRP 0.37)



Message Layout B
(sign number LBP 5.22)



Message Layout C
(sign number MBC 0.97)



Message Layout D
(sign number MBC 0.37)

TYPE 4/6

Multi-Use Pathway Information/Guide Combination Sign

Map Mounting Screw Placement and Map Bleed Area Details

Scale

n.t.s.
For visual reference only

VERIFIED BY MLTPA - 2019

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

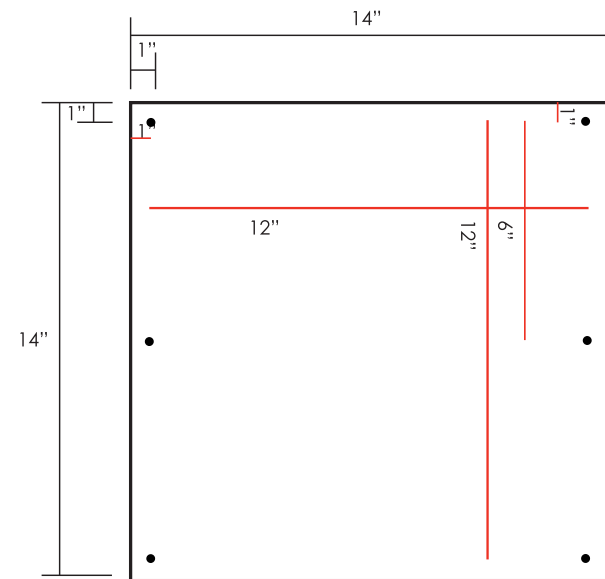
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



corbindesign

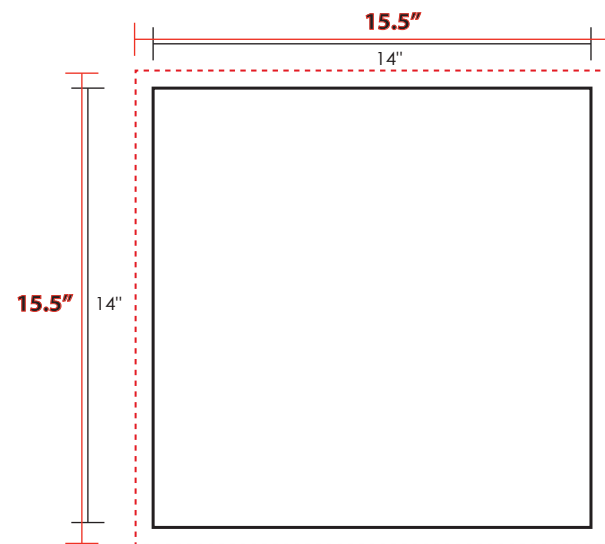


SIGN TYPE 4/6 SCREW PATTERN SPECIFICATIONS:

Front Map: 14" x 14"

Horizontal Screw Pattern Spacing (top and bottom of panel): 3 screws
Vertical Screw Pattern Spacing (left and right of panel): 2 screws centered between horizontal screws

Horizontal screws holes are set in **1"** from edge of panel
Vertical screw holes are set in 1" from edge of panel



SIGN TYPE 4/6 PRINT BLEED AREA

File Dimensions: **15.5" x 15.5"**
Trim Dimensions: 14" x 14"
Bleed Dimensions: **.75'**

NOTE: The owner anticipates that no information in the final file will be cut, fabricator is to ensure labels and text are fully outside of the bleed area.

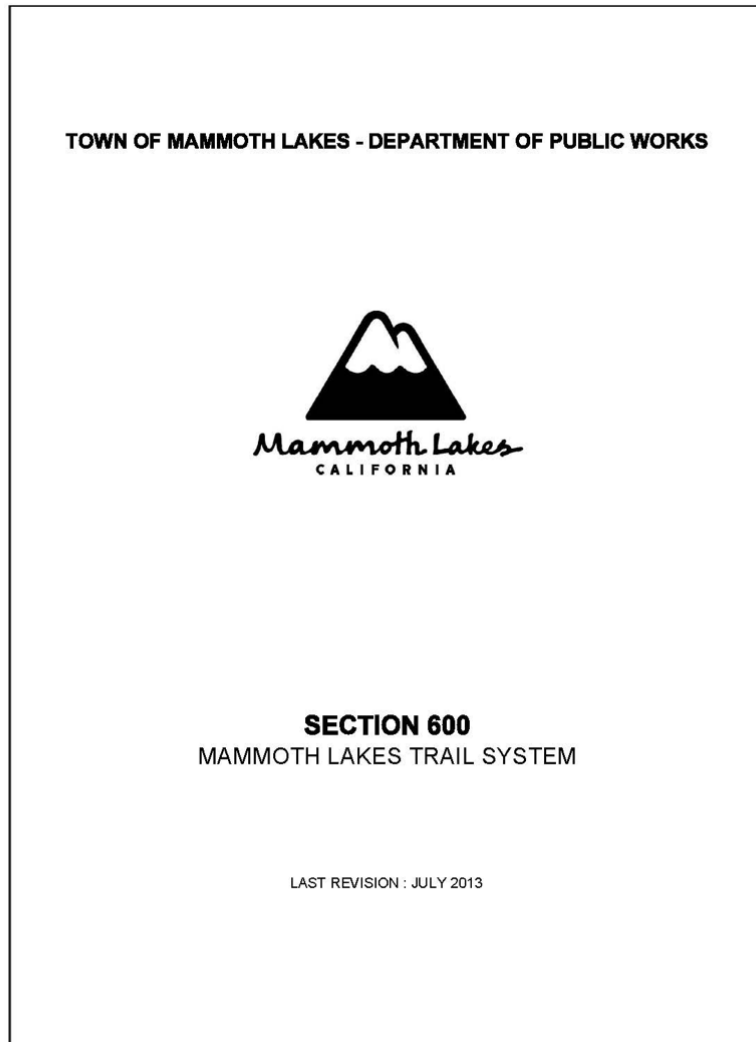
Files will be created anticipating that a border cannot be accurately created during the final cut/bleed process. Careful consideration of what will be potentially cut off with the bleed area is required. **File is trimmed with square corners.**

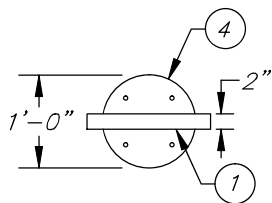
The final file will be exported as a vector PDF with 300 dpi resolution images embedded in the file. The file will be delivered in either a CMYK or RGB format depending on the printer's preference.

Wayfinding Signage: Type 6

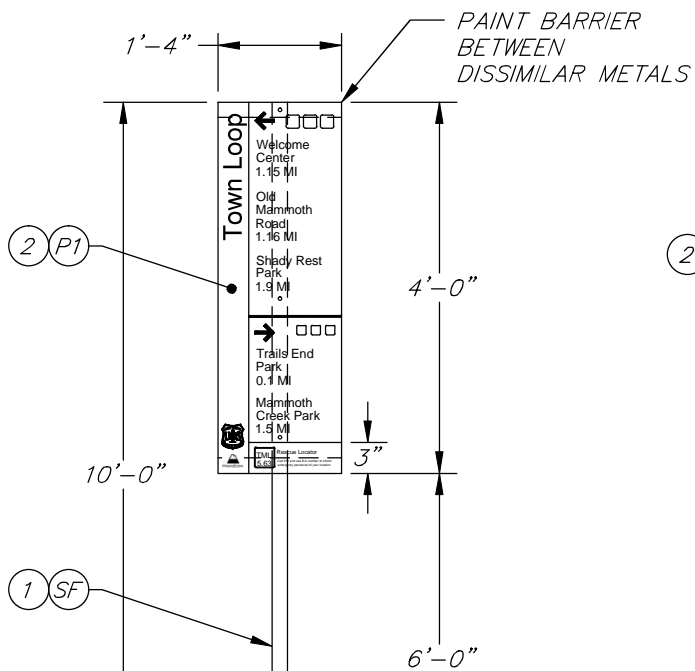
“Wayfinding Signage: Type 6” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

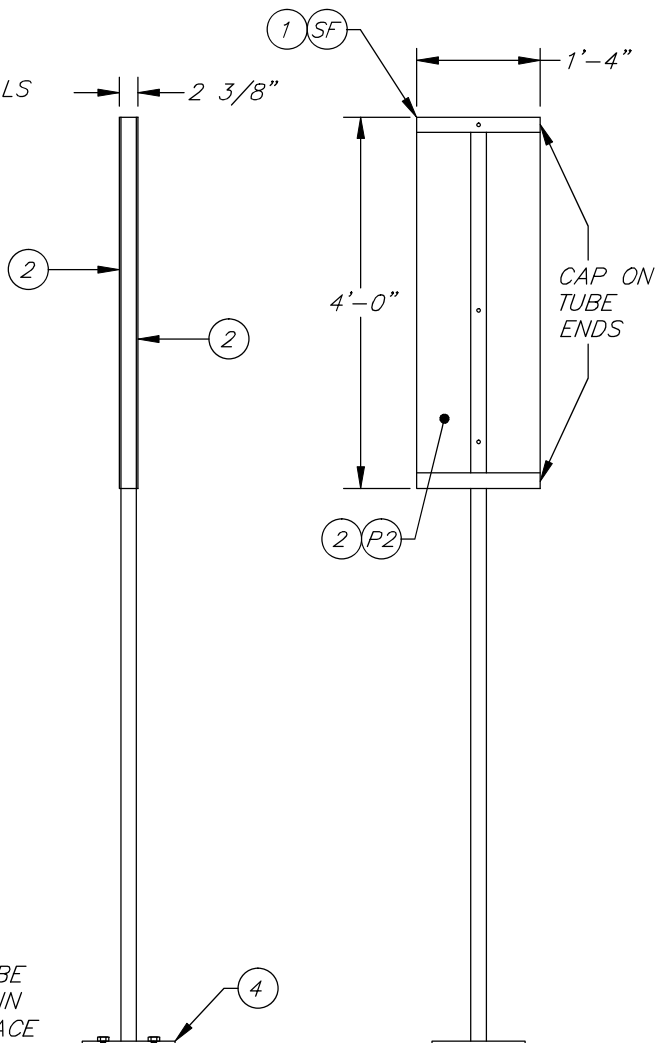




PLAN VIEW
N.T.S.



FRONT VIEW
N.T.S.



SIDE VIEW
N.T.S.

BACK VIEW
N.T.S.

SEE SHEET 12 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 6

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

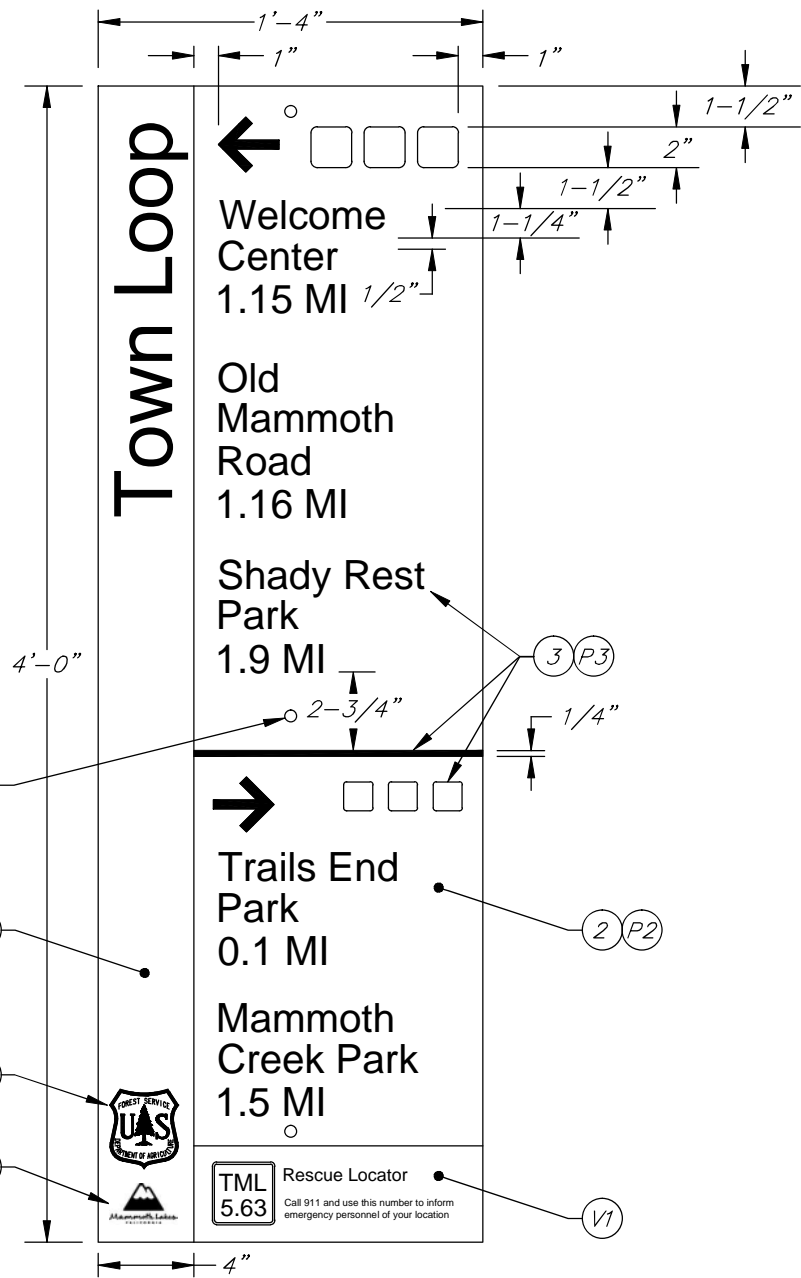
DATE: **May 7, 2014**

STANDARD PLAN

602-1

SHEET 10 of 15

CENTER BOLT PLACEMENT
TBD BASED ON COPY
LAYOUT



FRONT VIEW
N. T. S.

SEE SHEET 12 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 6 - EXAMPLE

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

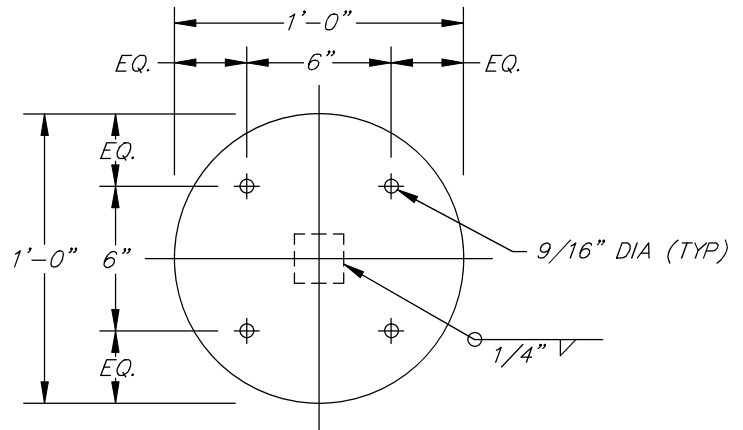
STANDARD PLAN
602-1
SHEET 11 of 15

○ CONSTRUCTION NOTES

1. POST AND FRAME – 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE.
2. SIGN FACE – 3/16" ALUMINUM DRILLED AND TAPPED TO SQ. TUBE WITH 1/4"-20 SS TAMPER PROOF BOLTS PAINTED TO MATCH BACKGROUND. PAINT BARRIER BETWEEN DISSIMILAR METAL
3. GRAPHIC – PAINTED COPY OVER PAINTED BACKGROUND.
4. SUPPORT PLATE – 1/2" THICK STEEL PLATE WELDED TO BOTTOM OF 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE POST.
5. MOUNTING – 1/2" EPOXIED ANCHORS @ MIN 12" EMBEDMENT IN CONCRETE CAISSON AS REQUIRED.
6. MAP PANEL AND GRAPHICS – 14" X 14" THICK FIBERGLAS WITH IMBEDDED INK-JET GRAPHICS MOUNTED TO FACE WITH SS TAMPER RESISTANT HARDWARE. PAINTED AT 600 DPI USING EXTERIOR UV INHIBITING INKS. BY PANNIER GRAPHICS.
7. #3 TIES @ TOP 5", 3" MIN CLEAR, TYP.
8. REMAINING #3 TIES @ 6" O.C., 3" MIN CLEAR, TYP.
9. CONSOLIDATED CONCRETE, $f_c=3,000$ PSI
10. #6 VERTICAL TIES, 3" MIN CLEAR, TYP.
11. LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.

○ COLOR SPECIFICATIONS

- P-1 P.T.M. MAP #MP00857 BROWN W/ (SATIN) CLEAR COAT
- P-2 P.T.M. MAP #MP00811 (MAMMOTH LAKES TRAIL SYSTEM GREEN W/ (SATIN) CLEAR COAT
- P-3 P.T.M. MAP #MP11477 WHITE W/ (SATIN) CLEAR COAT
- V1 3M 7725-14 BRIGHT ORANGE W/ (SATIN) CLEAR COAT
- SF STEEL FINISH = NATURAL FINISH



1/2" STEEL
MOUNTING PLATE
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 6 - NOTES

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

602-1

SHEET 12 OF 15

Wayfinding Signage: Type 6

On the following pages are proposed updates for the “Wayfinding Signage: Type 6” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

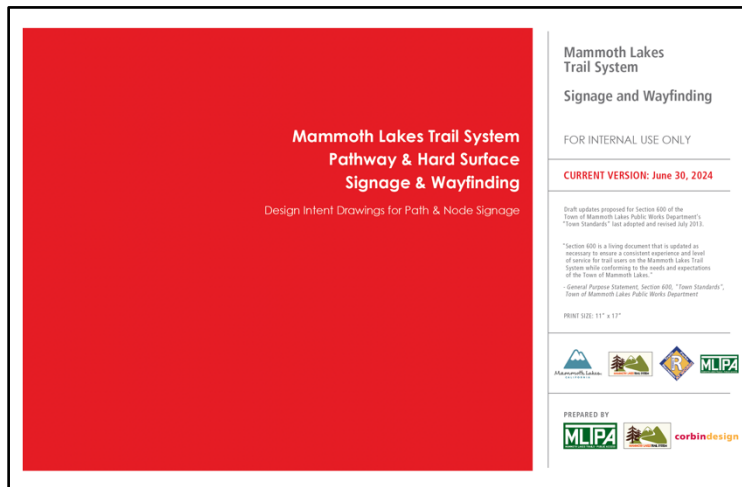


Wayfinding Signage: Type 6

Specifications for “Wayfinding Signage: Type 6” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

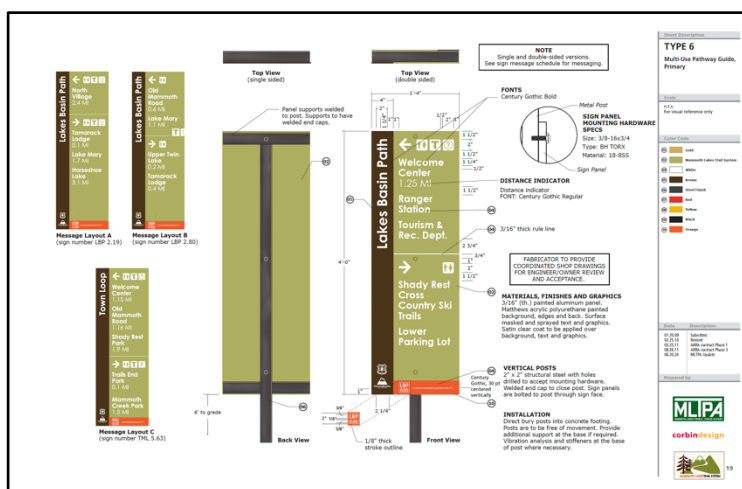
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Wayfinding Signage: Type 6

- Please see PDF page 19 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.



TYPE 6
Multi-Use Pathway Guide, Primary

Scale
n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by

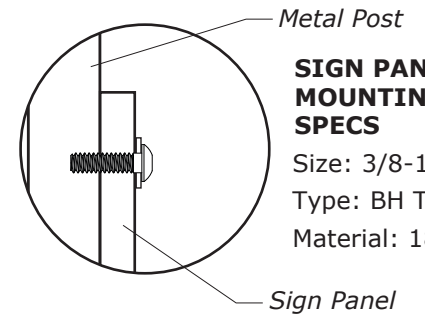


corbindesign



NOTE
Single and double-sided versions.
See sign message schedule for messaging.

FONTS
Century Gothic Bold



DISTANCE INDICATOR
Distance indicator
FONT: Century Gothic Regular

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

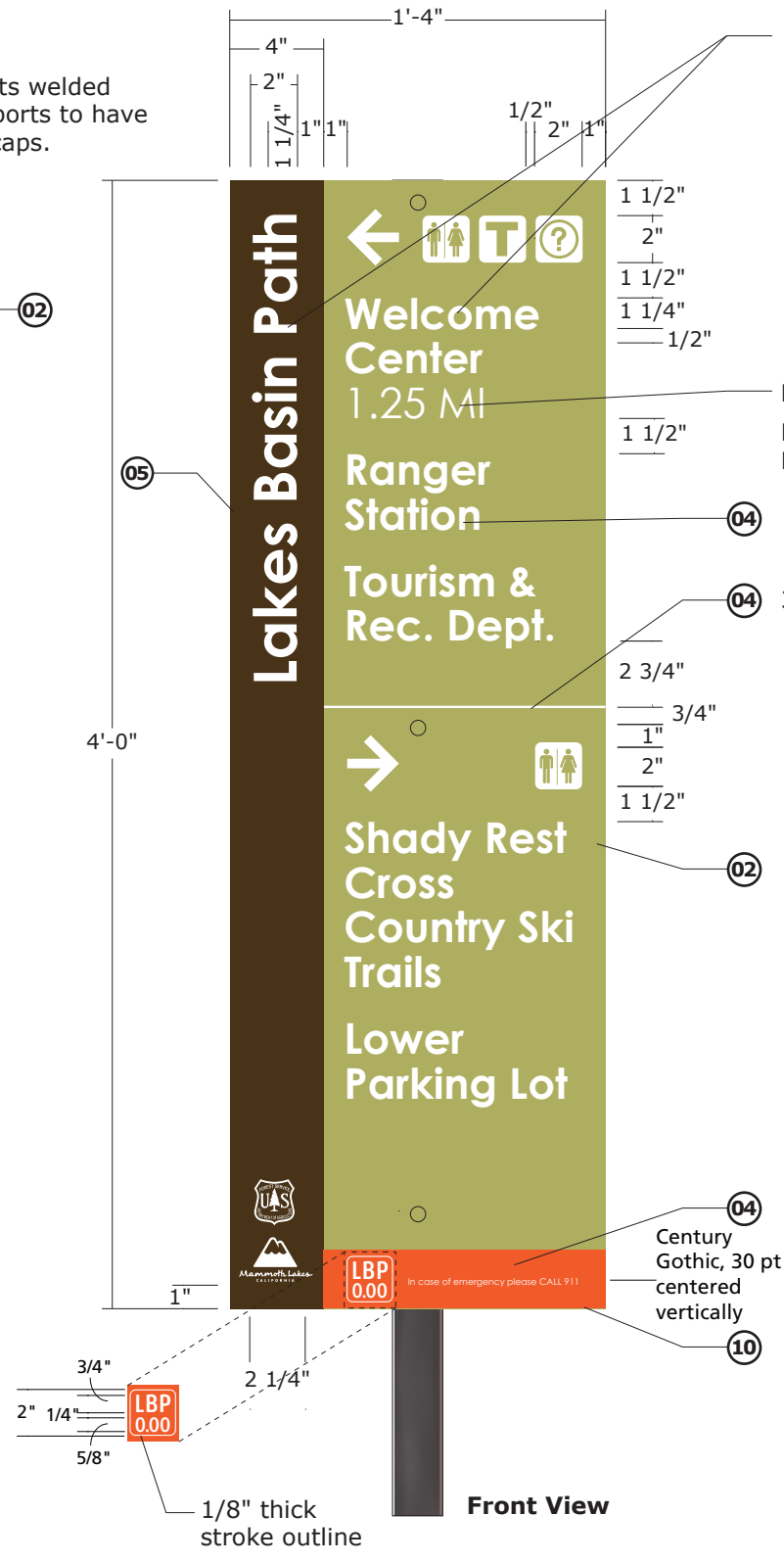
MATERIALS, FINISHES AND GRAPHICS
3/16" (th.) painted aluminum panel. Matthews acrylic polyurethane painted background, edges and back. Surface masked and sprayed text and graphics. Satin clear coat to be applied over background, text and graphics.

VERTICAL POSTS
2" x 2" structural steel with holes drilled to accept mounting hardware. Welded end cap to close post. Sign panels are bolted to post through sign face.

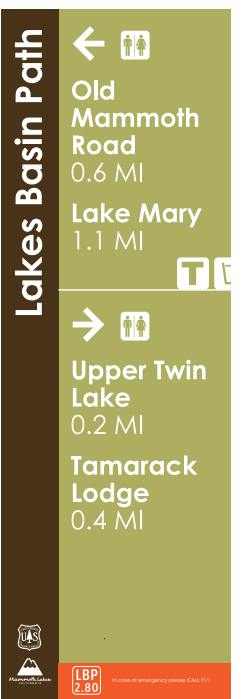
INSTALLATION
Direct bury posts into concrete footing. Posts are to be free of movement. Provide additional support at the base if required. Vibration analysis and stiffeners at the base of post where necessary.



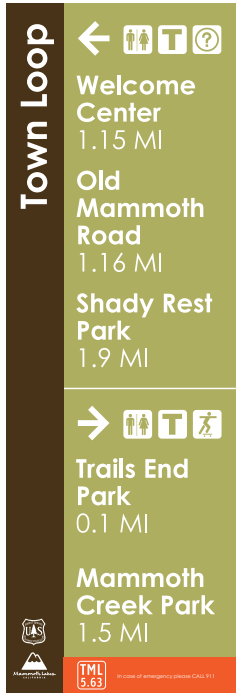
Panel supports welded to post. Supports to have welded end caps.



Message Layout A
(sign number LBP 2.19)



Message Layout B
(sign number LBP 2.80)



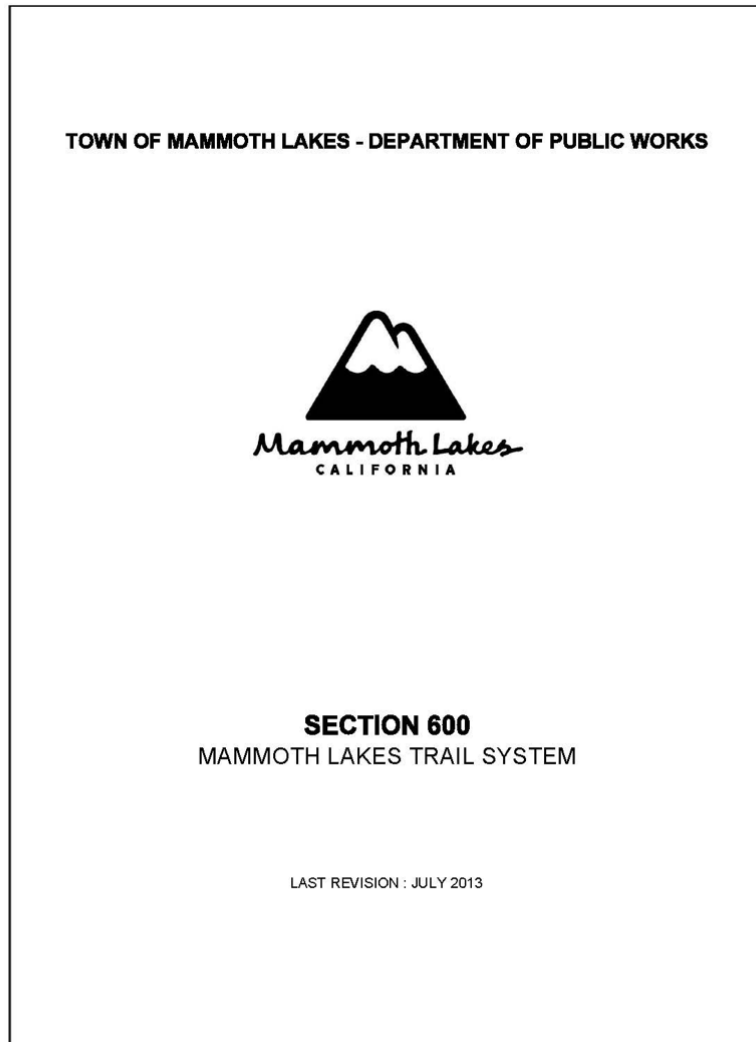
Message Layout C
(sign number TML 5.63)

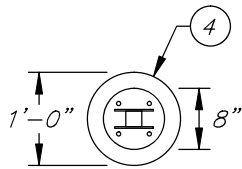
6' to grade

Wayfinding Signage: Type 6a

“Wayfinding Signage: Type 6a” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

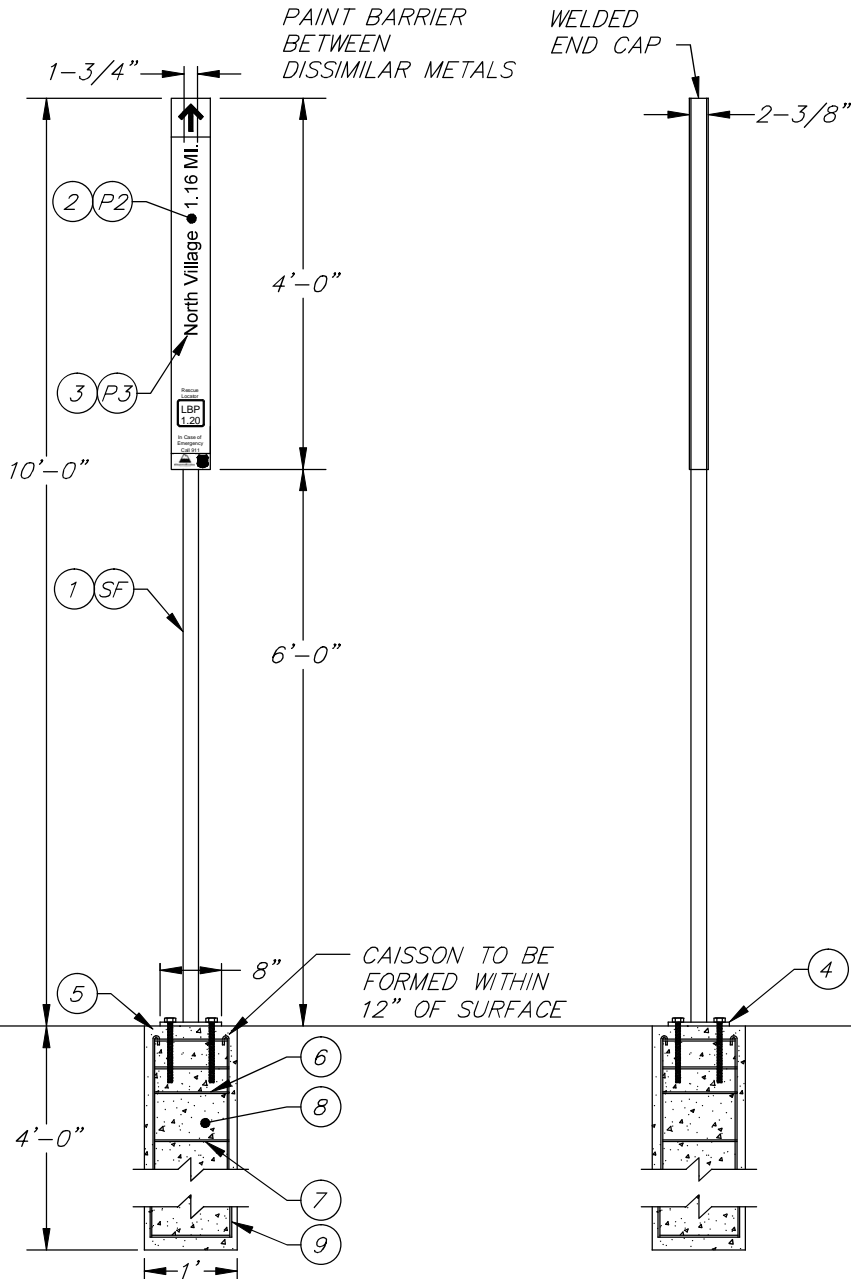
For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.





PLAN VIEW

N.T.S.

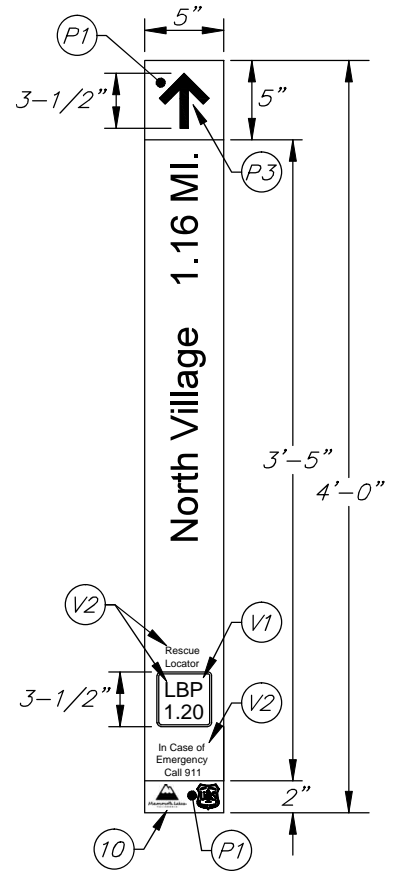


FRONT VIEW

N.T.S.

SIDE VIEW

N.T.S.



FRONT VIEW

N.T.S.

SEE SHEET 14 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

SIGN TYPE 6A

STANDARD PLAN

602-1

SHEET 13 OF 15



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

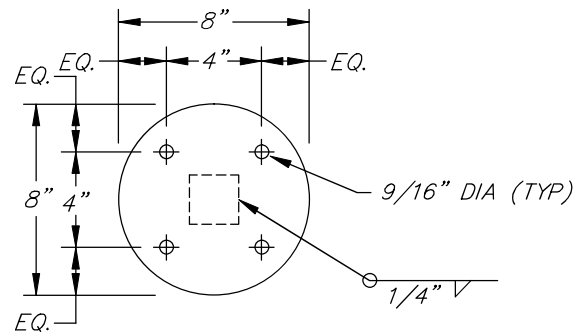
DATE: **May 7, 2014**

○ CONSTRUCTION NOTES

1. POST – 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE.
2. SIGN FACE – 3/16" ALUMINUM FACES VERSALOK GLUED TO 1"X2"X18" ANGLE. ANGLE TO BE BOLTED TO STEEL SQ. TUBE POST WITH 1/4"-20 SS TAMPER PROOF BOLTS. BOLTS PAINTED TO MATCH BACKGROUND. PAINT BARRIER BETWEEN DISSIMILAR METAL.
3. GRAPHIC – PAINTED COPY OVER PAINTED BACKGROUND. MATTHEWS ACRYLIC POLY URATHANE PAINTED BACKGROUND, EDGES AND BACK. SURFACE MASKED AND SPRAYED TEXT AND GRAPHICS. SATIN CLEAR COAT TO BE APPLIED OVER BACKGROUND, TEXT AND GRAPHICS.
4. SUPPORT PLATE – 1/2" THICK STEEL PLATE WELDED TO BOTTOM OF 2" X 2" X 3/16" CORTEN STEEL SQ. TUBE POST.
5. MOUNTING – 1/2" EPOXIED ANCHORS @ MIN 12" EMBEDMENT IN CONCRETE CAISSON AS REQUIRED.
6. #3 TIES @ TOP 5", 3" MIN CLEAR, TYP.
7. REMAINING #3 TIES @ 6" O.C., 3" MIN CLEAR, TYP.
8. CONSOLIDATED CONCRETE, $f_c=3,000$ PSI
9. #6 VERTICAL TIES, 3" MIN CLEAR, TYP.
10. LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.

○ COLOR SPECIFICATIONS

- P-1 P.T.M. MAP #MP00857 BROWN W/ (SATIN) CLEAR COAT
- P-2 P.T.M. MAP #MP00811 (MAMMOTH LAKES TRAIL SYSTEM GREEN W/ (SATIN) CLEAR COAT
- P-3 P.T.M. MAP #MP11477 WHITE W/ (SATIN) CLEAR COAT
- V1 3M 7725-14 BRIGHT ORANGE W/ (SATIN) CLEAR COAT
- V2 3M 7125-10 WHITE W/ (SATIN) CLEAR COAT
- SF STEEL FINISH = NATURAL FINISH



1/2" STEEL
MOUNTING PLATE
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 6A - NOTES

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

602-1

SHEET 14 OF 15

Wayfinding Signage: Type 6a

On the following pages are proposed updates for the “Wayfinding Signage: Type 6a” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

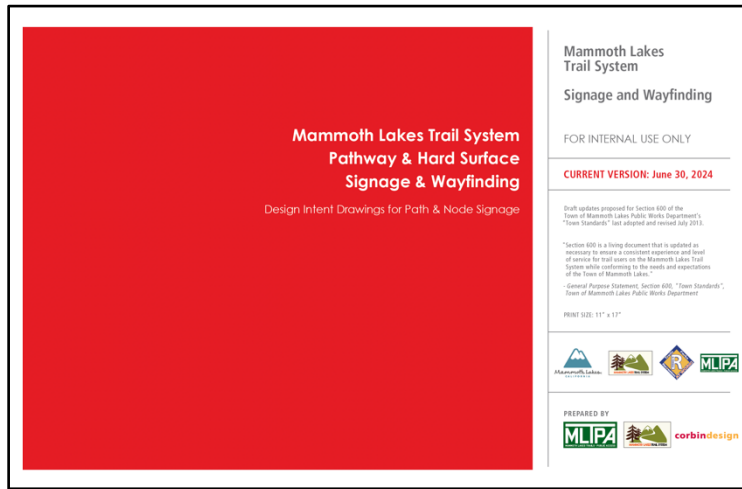


Wayfinding Signage: Type 6a

Specifications for “Wayfinding Signage: Type 6a” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

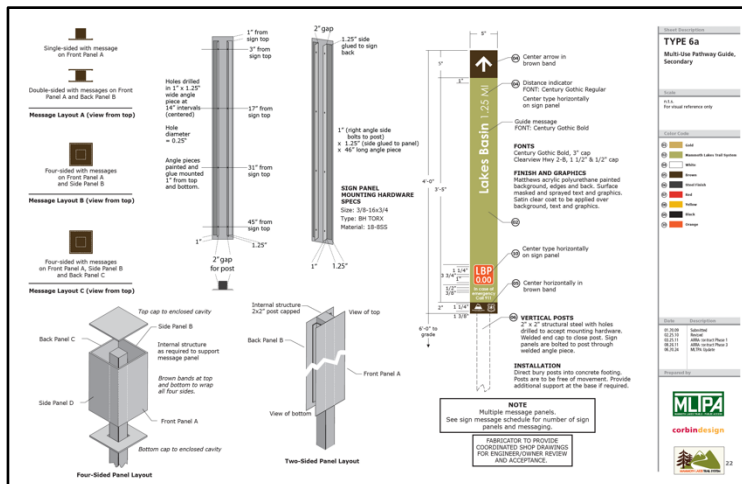
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document.
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Wayfinding Signage: Type 6a

- Please see PDF page 22 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.



TYPE 6a

Multi-Use Pathway Guide, Secondary

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

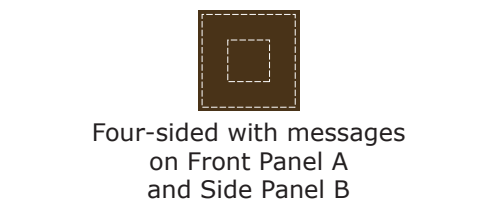
Prepared by



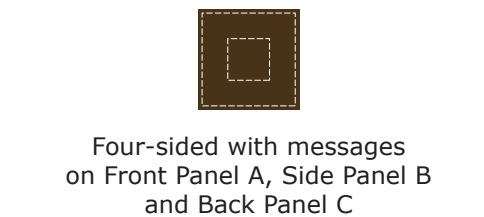
corbindesign



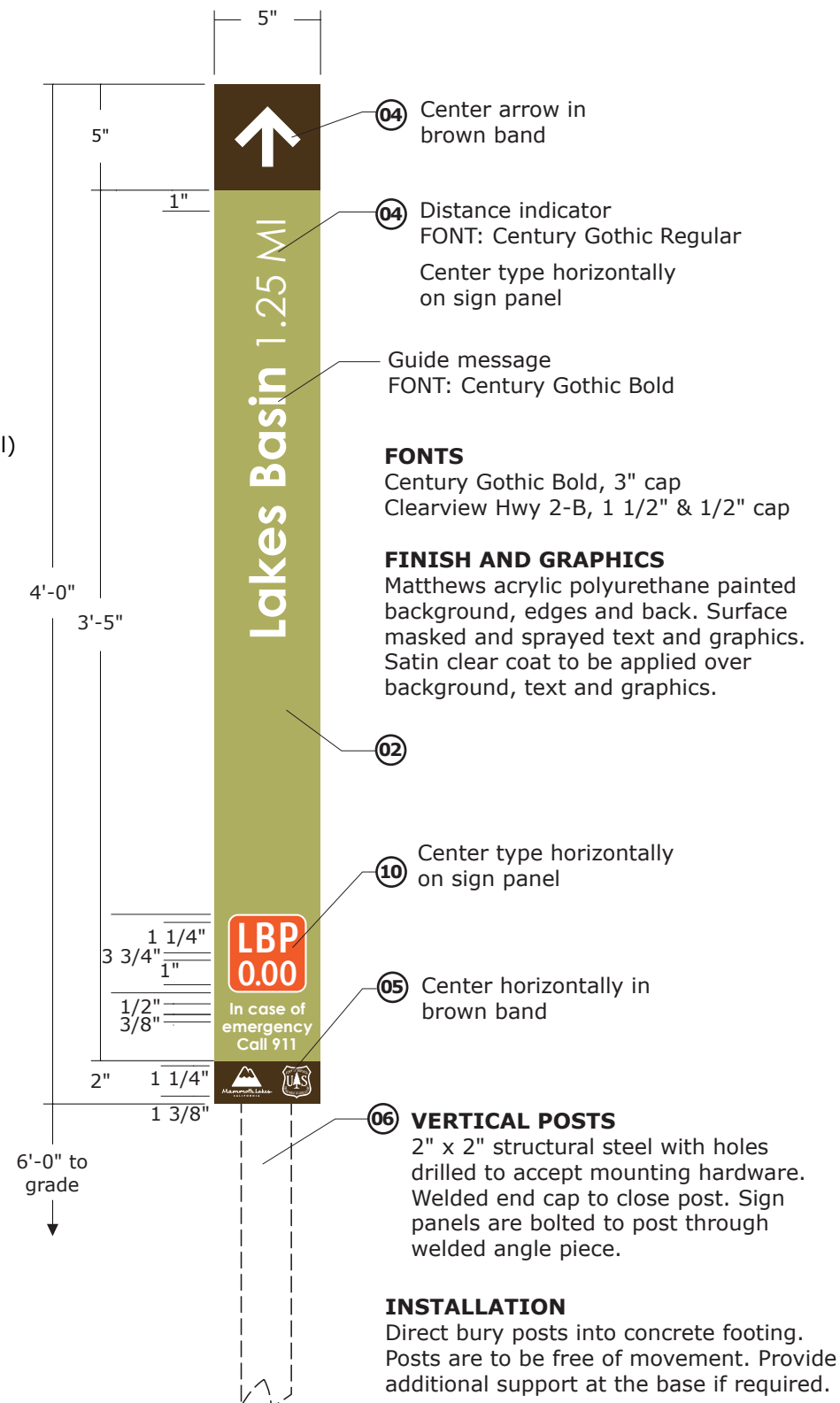
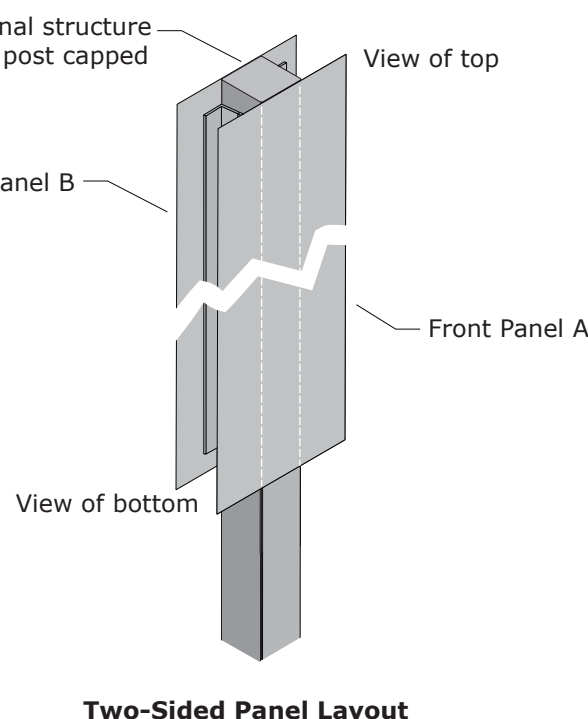
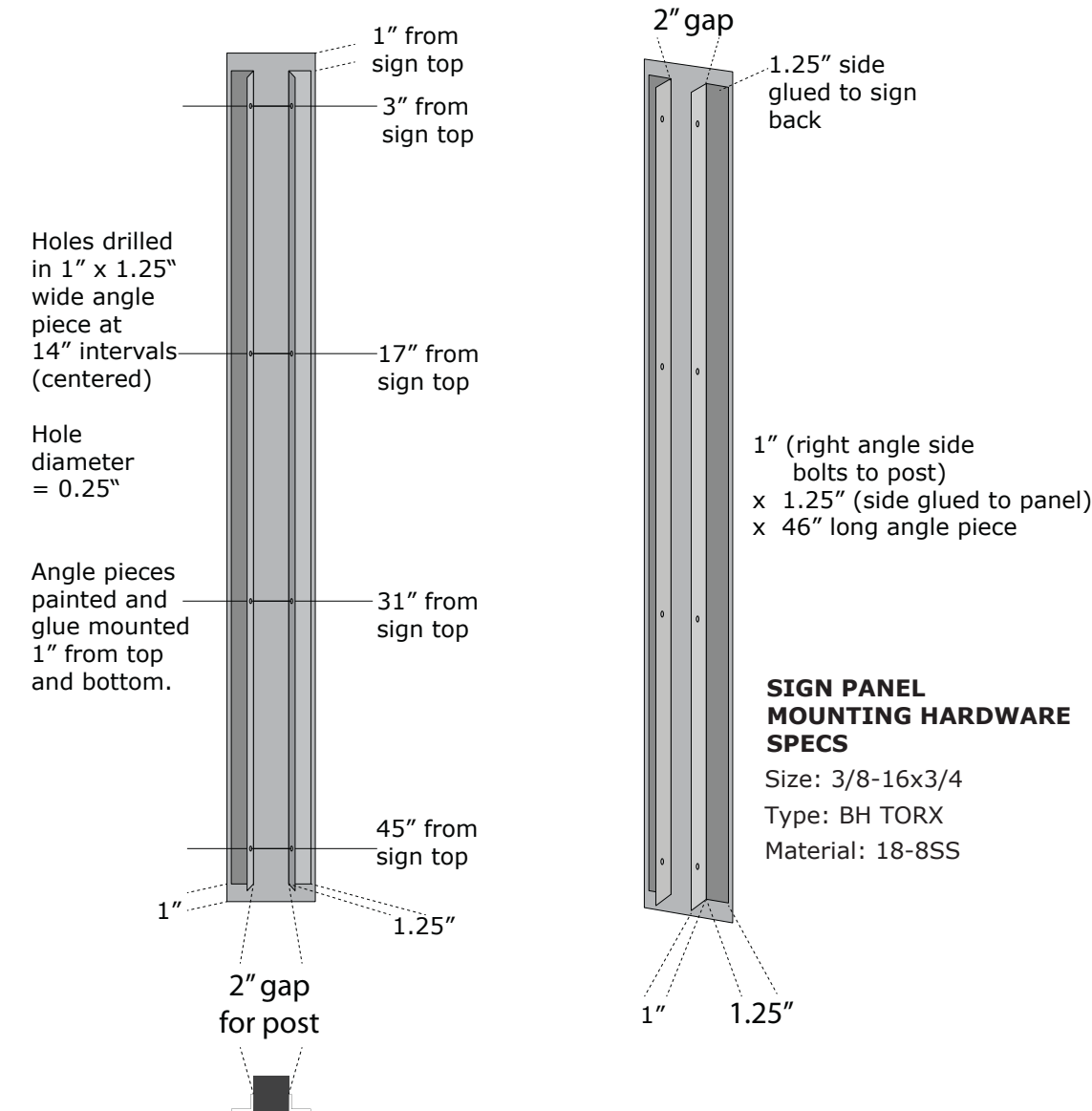
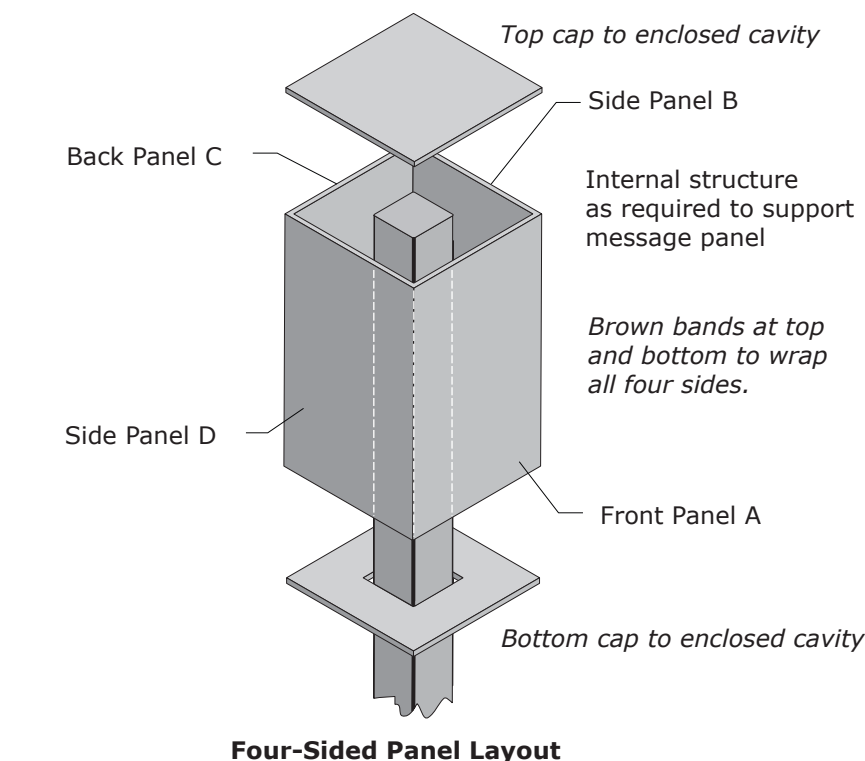
Message Layout A (view from top)



Message Layout B (view from top)



Message Layout C (view from top)



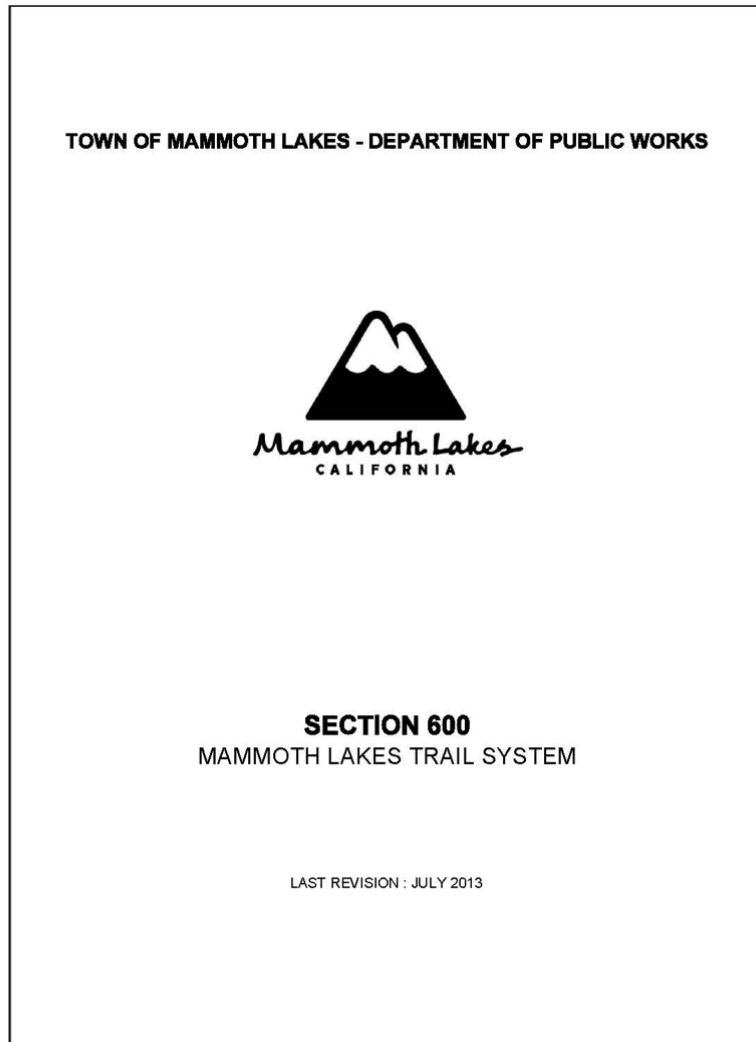
NOTE
Multiple message panels. See sign message schedule for number of sign panels and messaging.

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

Wayfinding Signage: Type Milepost

“Wayfinding Signage: Milepost” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

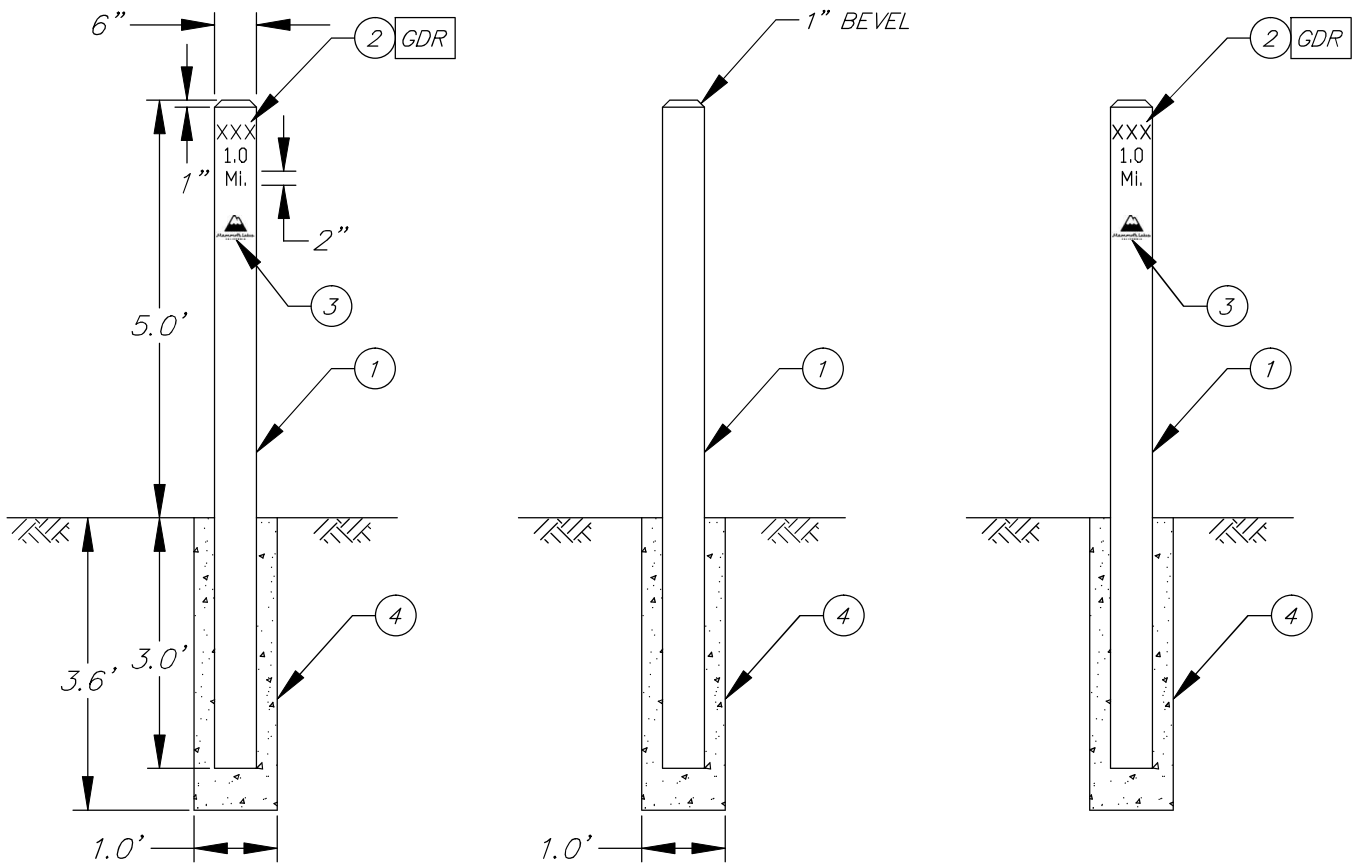
For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



○ CONSTRUCTION NOTES

1. POST – 6"x6" BROWN RECYCLED PLASTIC POST.
(EVERLASTING LUMBER BY GREAT LAKES)
2. GRAPHIC – ENGRAVED AND FILLED WITH GLOW IN THE DARK EVERLASTING RESIN.
3. LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.
4. MOUNTING – DIRECT BURY INTO CONCRETE.

GDR GLOW IN THE DARK EVERLASTING RESIN



MILEAGE POST MARKER DETAIL
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



MILEPOST

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

602-1

SHEET 15 OF 15

Wayfinding Signage: Milepost

On the following pages are proposed updates for the “Wayfinding Signage: Milepost” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

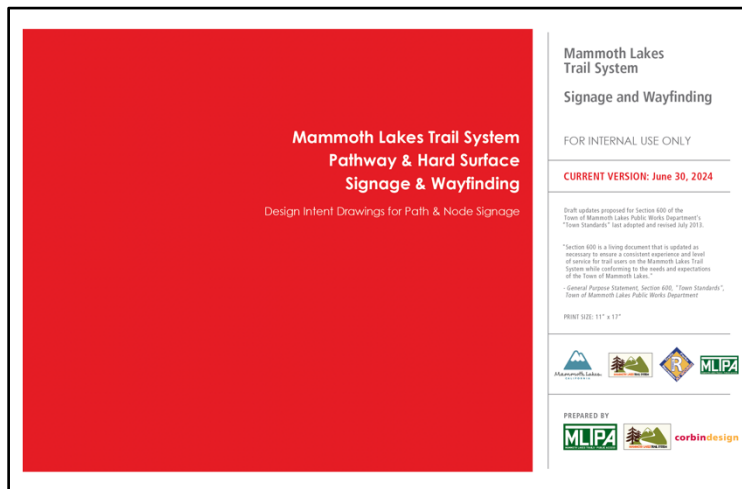


Wayfinding Signage: Milepost

Specifications for “Wayfinding Signage: Milepost” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

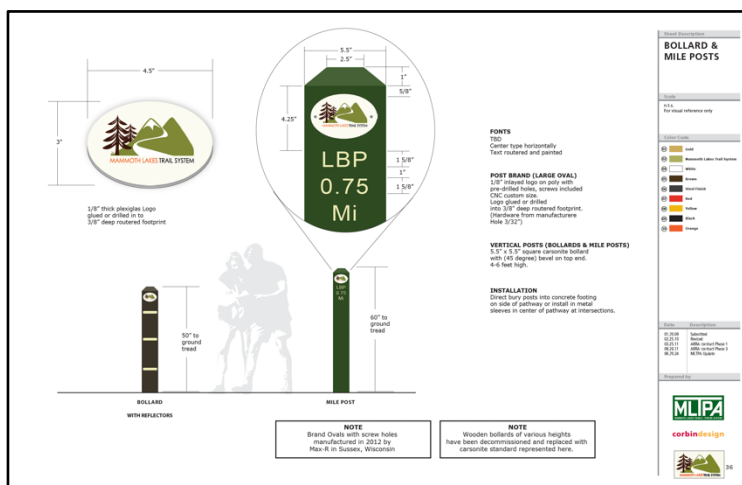
Hard Surface Design Intent

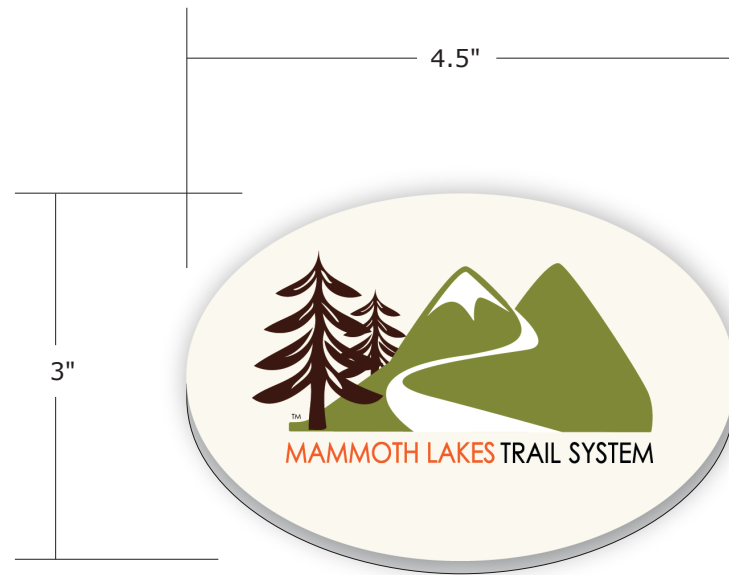
- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



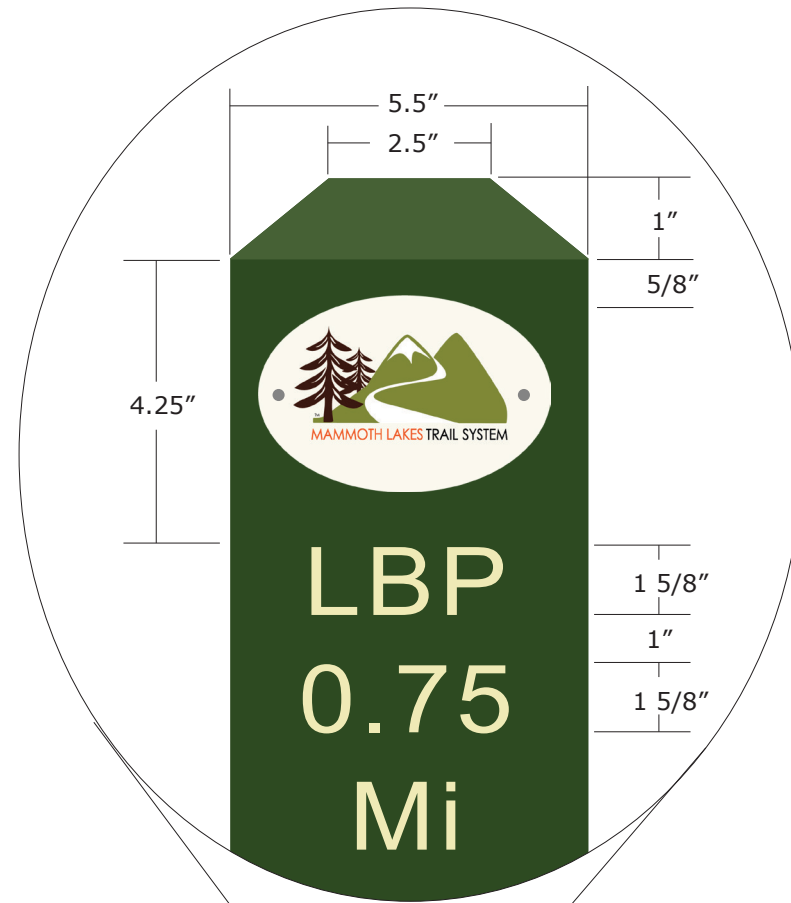
Wayfinding Signage: Milepost

- Please see PDF page 36 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.





1/8" thick plexiglas Logo
glued or drilled in to
3/8" deep routed footprint



FONTS

TBD
Center type horizontally
Text routed and painted

POST BRAND (LARGE OVAL)

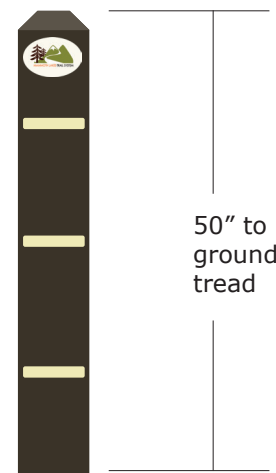
1/8" inlayed logo on poly with
pre-drilled holes, screws included
CNC custom size.
Logo glued or drilled
into 3/8" deep routed footprint.
(Hardware from manufacturer
Hole 3/32")

VERTICAL POSTS (BOLLARDS & MILE POSTS)

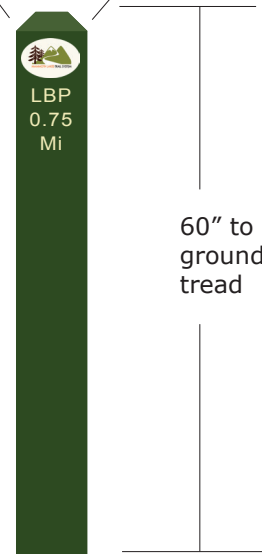
5.5" x 5.5" square carsonite bollard
with (45 degree) bevel on top end.
4-6 feet high.

INSTALLATION

Direct bury posts into concrete footing
on side of pathway or install in metal
sleeves in center of pathway at intersections.



**BOLLARD
WITH REFLECTORS**



MILE POST

NOTE
Brand Ovals with screw holes
manufactured in 2012 by
Max-R in Sussex, Wisconsin

NOTE
Wooden bollards of various heights
have been decommissioned and replaced with
carsonite standard represented here.

Sheet Description

BOLLARD & MILE POSTS

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



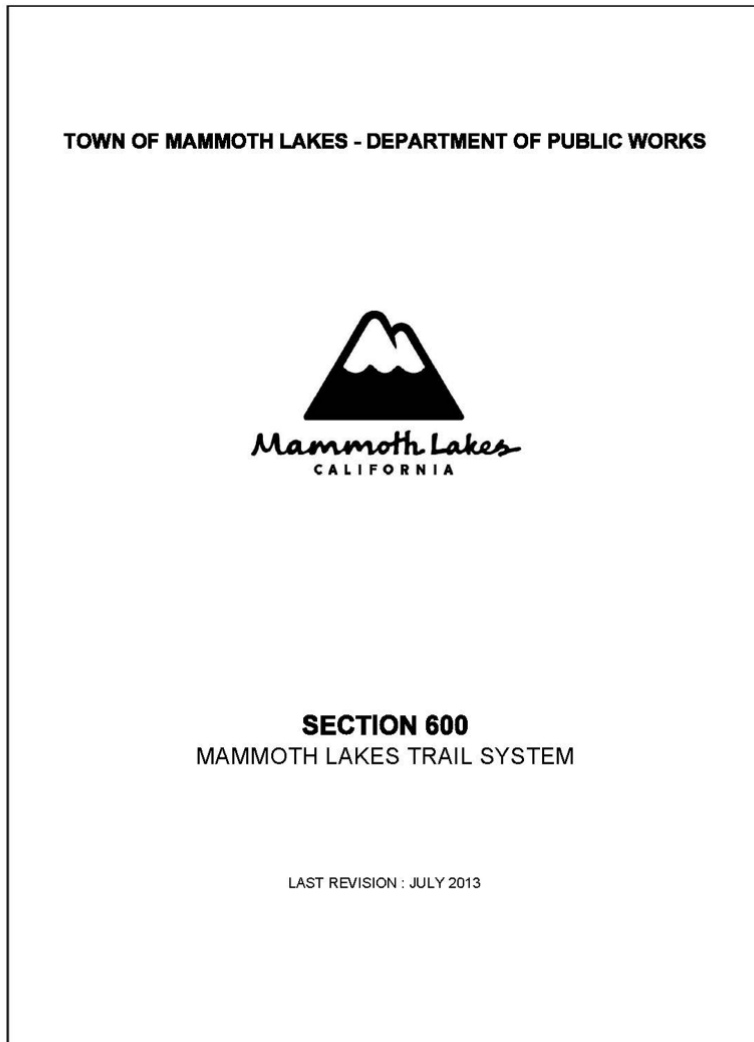
corbindesign



Regulatory Signage

Regulatory Signage from Section 600 of the Town of Mammoth Lakes Public Works Department's "Standards Manual" was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town's Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.





BIKE PATH
 MUTCD W11-1
 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)



TRAIL X-ING
 MUTCD W11-15
 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)



EQUESTRIAN
 MUTCD W11-7
 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)



AHEAD
 MUTCD R3-17aP
 4" x 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)



SLOW
 4" x 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)



SLOW
 6" x 8"
 LEGEND: BLACK
 ARROW: WHITE
 BACKGROUND: PANTONE BLUE ____ (REFLECTIVE)

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



TYPE 8 SIGNS

PUBLIC WORKS
 DIRECTOR APPROVAL: 

DATE: May 7, 2014

STANDARD PLAN

603-1

SHEET 1 OF 4



SPEED LIMIT
 MUTCD W13-1
 6" x 6"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)

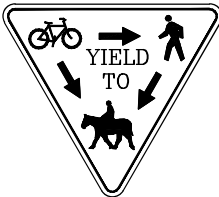


STOP SIGN
 MUTCD R1-1
 9"
 LEGEND: WHITE REFLECTIVE
 BACKGROUND: PANTONE RED 187 (REFLECTIVE)



STEEP DOWNHILL GRADE
 MUTCD W7-5
 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)

W7-5



"YIELD TO" SIGN
 SEE SECTION 607-1



YIELD SIGN
 8"
 LEGEND: BLACK
 BACKGROUND: PANTONE YELLOW 116 (REFLECTIVE)

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



TYPE 8 SIGNS

PUBLIC WORKS
 DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN

603-1

SHEET 2 OF 4



R5-6

NO BIKES
MUTCD R5-6
5" x 5"
LEGEND: BLACK AND PANTONE RED 187
BACKGROUND: WHITE



RL-090

BICYCLE TRAIL
MUTCD RL-090
5" x 5"
LEGEND: WHITE REFLECTIVE
BACKGROUND: PANTONE BROWN 469



RL-100

HIKING TRAIL
MUTCD RL-100
5" x 5"
LEGEND: WHITE REFLECTIVE
BACKGROUND: PANTONE BROWN 469



R4-7a

KEEP RIGHT
MUTCD R4-7a
5" x 8"
LEGEND: BLACK
BACKGROUND: WHITE REFLECTIVE

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



TYPE 8 SIGNS

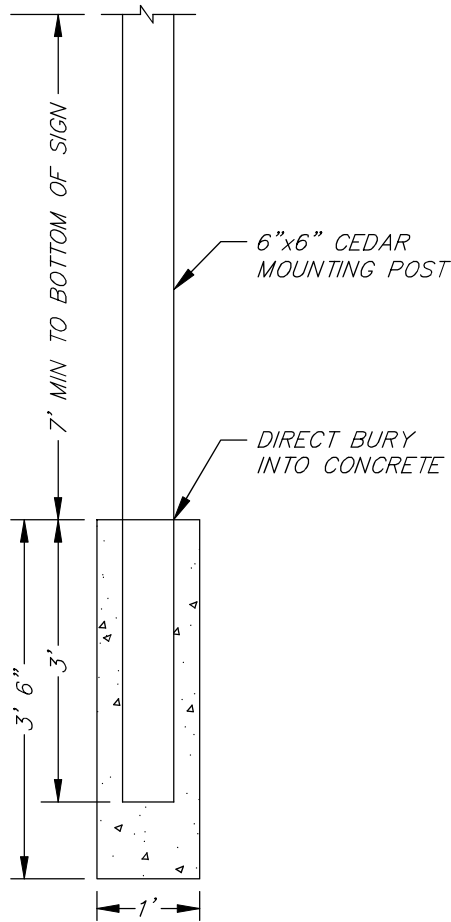
PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: May 7, 2014

STANDARD PLAN

603-1

SHEET 3 OF 4



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**SIGN TYPE 8
TYPICAL POST**

STANDARD PLAN

603-1

SHEET 4 OF 4



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

Regulatory Signs

On the following pages are proposed updates for the “Regulatory Signs” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

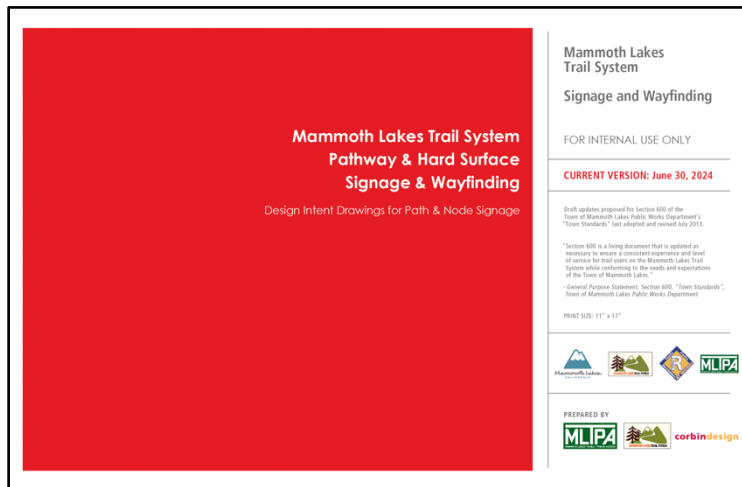


Regulatory Signs

The current approved Regulatory Signs array for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System is available through the most current version of Design Intent documents maintained by the Town's Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

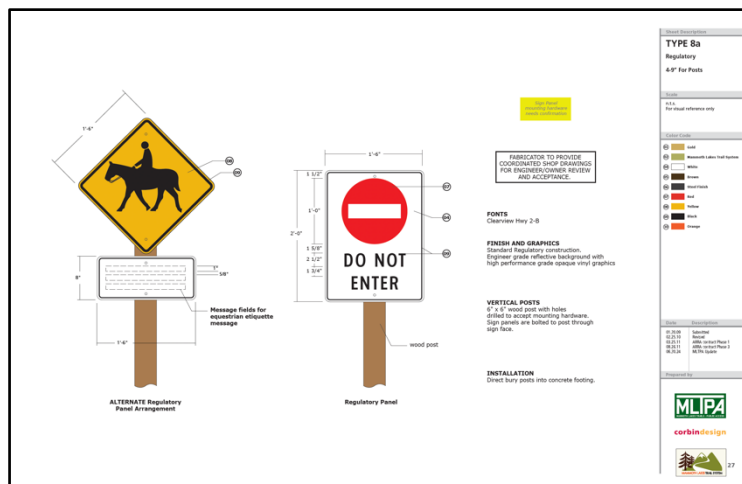
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document.
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Regulatory Signs

- Please see PDF pages 2, 28 and 31 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. These same pages are included in this document on the pages that follow.



TYPE 8a

Regulatory

4-9" For Posts

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

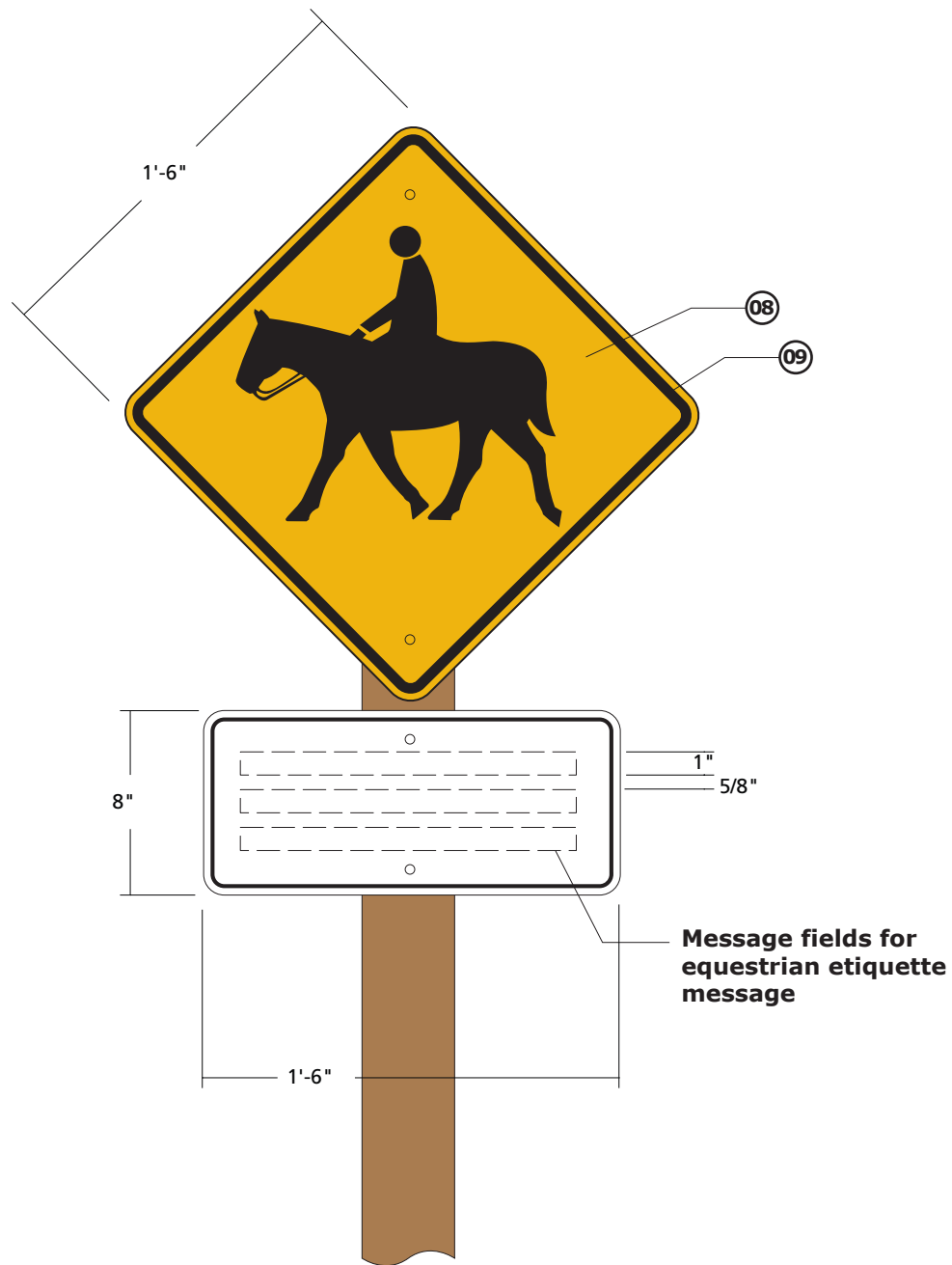
Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

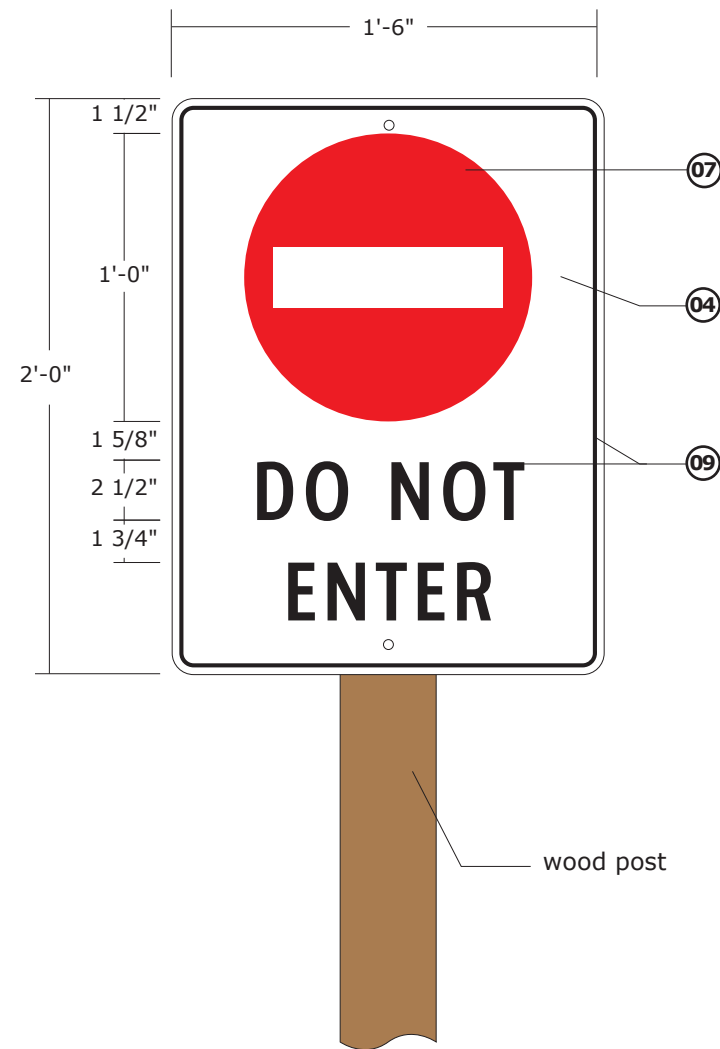
Prepared by



corbindesign



ALTERNATE Regulatory Panel Arrangement



Regulatory Panel

Sign Panel mounting hardware needs confirmation

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.

FONTS
Clearview Hwy 2-B

FINISH AND GRAPHICS
Standard Regulatory construction. Engineer grade reflective background with high performance grade opaque vinyl graphics

VERTICAL POSTS
6" x 6" wood post with holes drilled to accept mounting hardware. Sign panels are bolted to post through sign face.

INSTALLATION
Direct bury posts into concrete footing.



**FLASHING SLOW SIGN
(SOLAR)**

FLASHING SIGNS PURCHASED
PRE-MADE FROM
FROM MANUFACTURER,
PREFERABLY WITH SOLAR OPTION

**FLASHING SIGNS
VERTICAL POSTS**

2.5" diameter steel post drilled to accept mounting hardware
Sign panels are affixed to post using Manufacturer's recommendations. Manufacturer provides hardware whenever possible.

**FLASHING SIGNS
INSTALLATION**

Direct bury posts into concrete footing.

PRODUCT INFORMATION

Manufacturer: LED Lighting Solutions, Temecula CA.
Product is a 12V 24" Flashing LED "SLOW" Sign - Diamond Shaped, Diamond Grade Fluorescent Yellow-Green Reflective Sheeting with Black Trim - Amber (Yellow) LEDs - Requires 12V Junction Box (Solar or AC).

Hardware for LED Flashing Traffic Signs - Kit includes 2) Fully notched Metal Band Brackets and 2 Sign Bracket Sliders

Sheet Description

TYPE 8b

Regulatory
Flashing Slow Sign

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

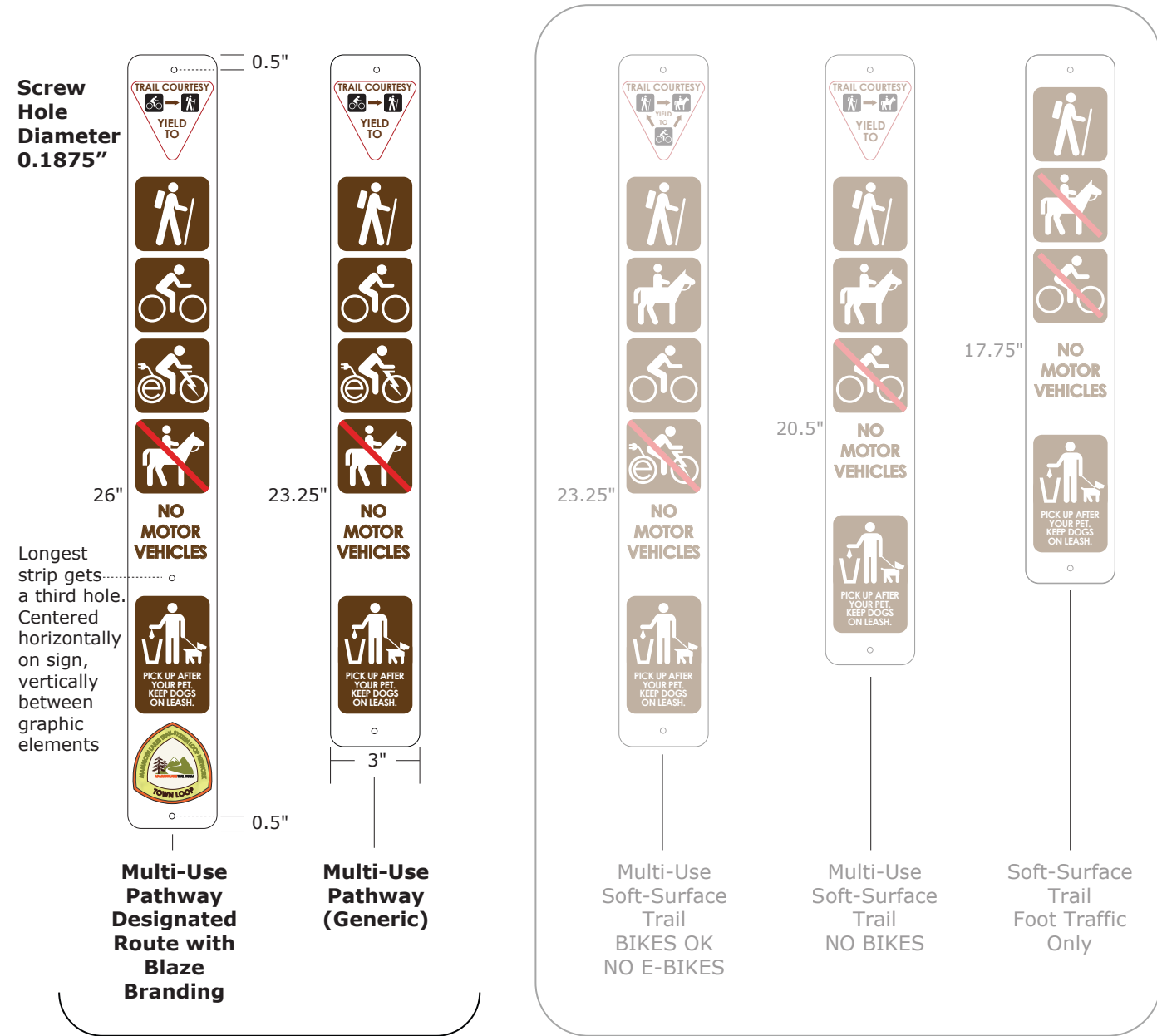
Prepared by



corbindesign



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

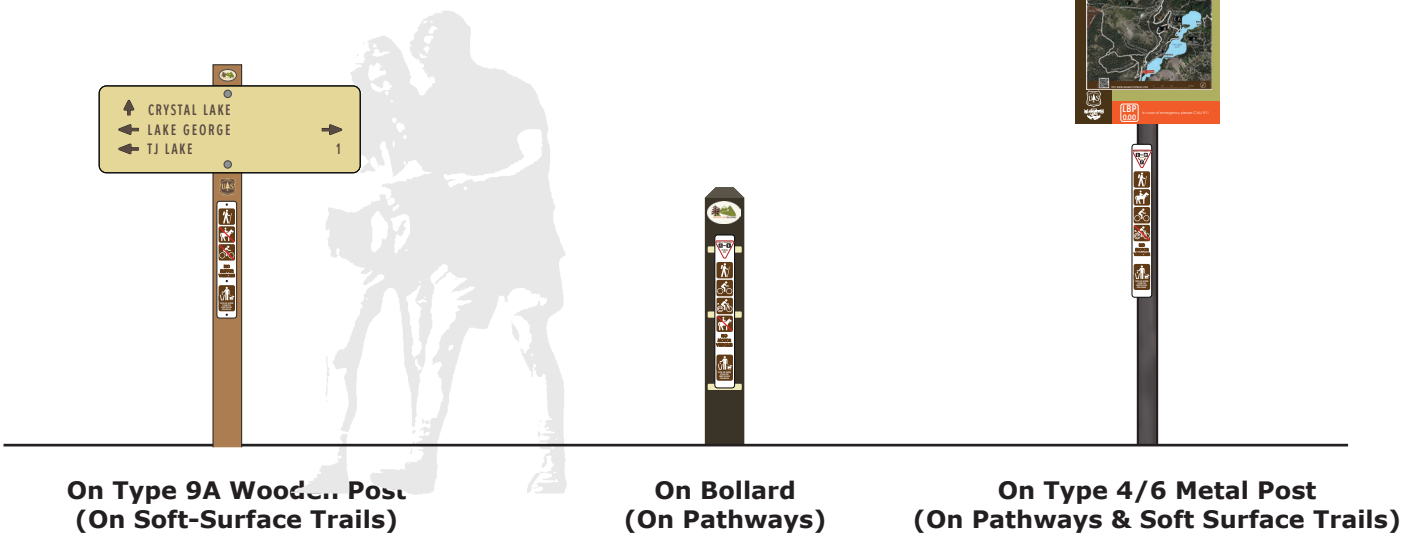
FINISH AND GRAPHICS
0.080" aluminum with print decals.
Hole diameter 0.1875" (3/16")

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



Sheet Description

TYPE 8c
Regulatory
Regulatory Strip Program

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



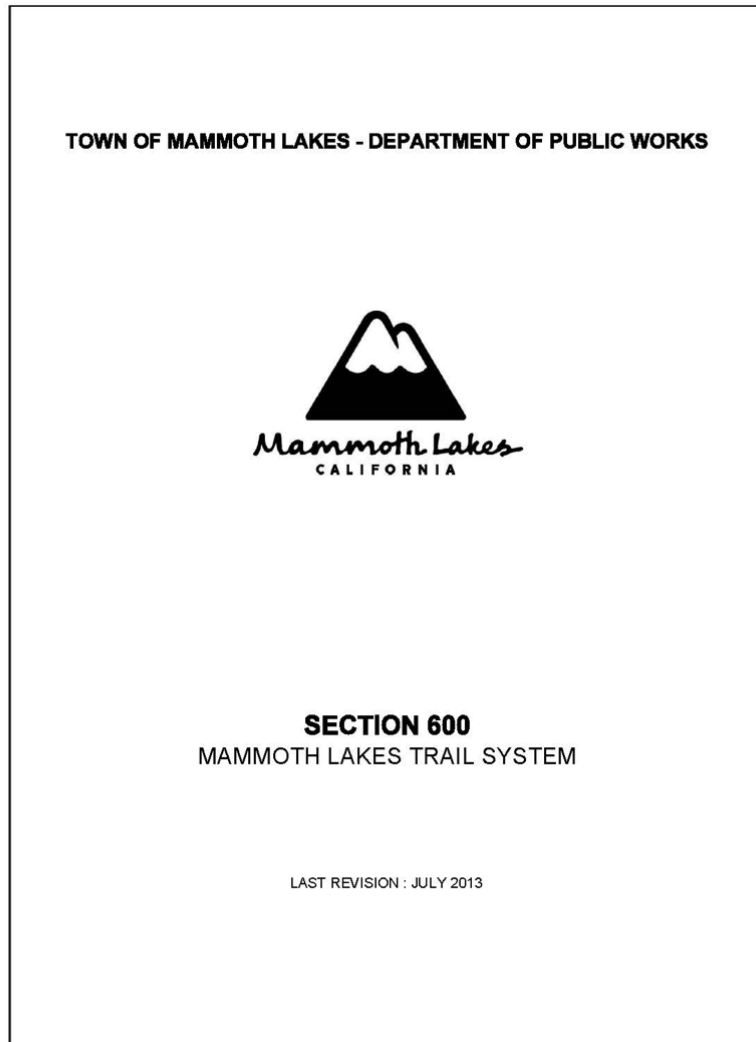
corbindesign

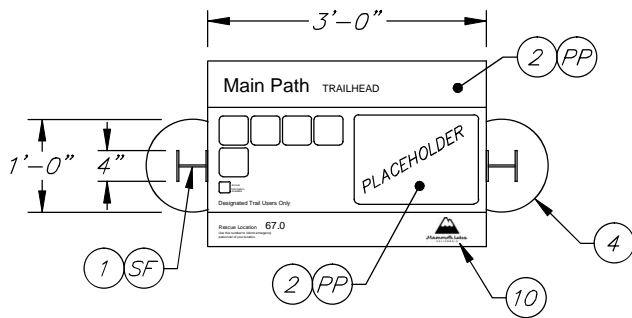


Interpretive Signage

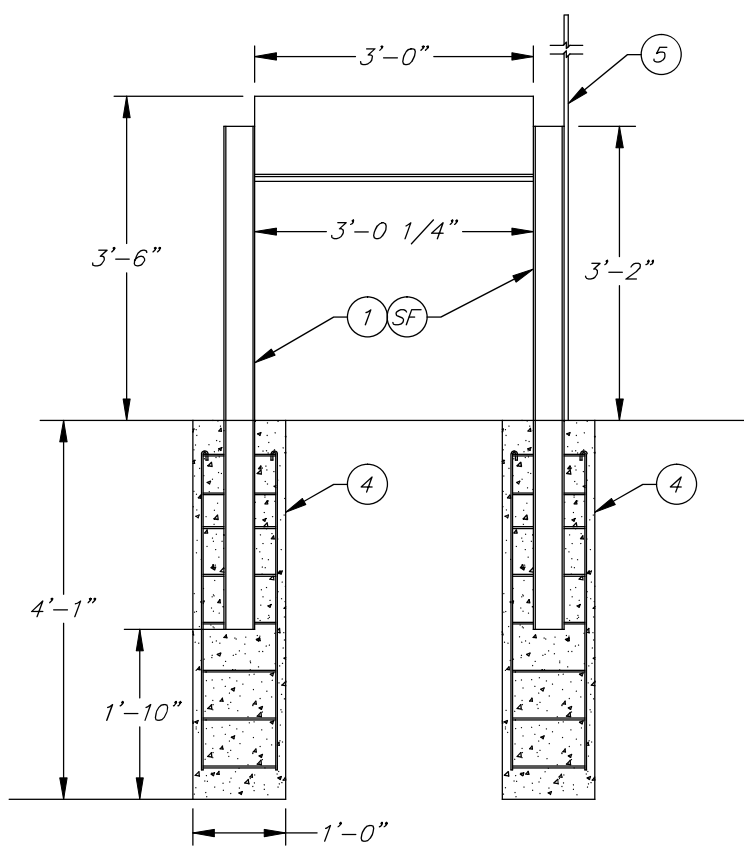
Interpretive Signage from Section 600 of the Town of Mammoth Lakes Public Works Department's "Standards Manual" was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town's Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

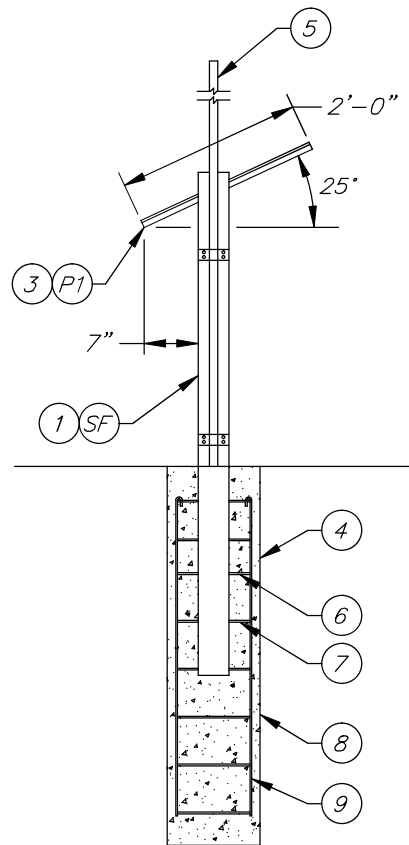




PLAN VIEW
N. T. S.



FRONT VIEW
N. T. S.



SIDE VIEW
N. T. S.

SEE SHEET 2 FOR
CONSTRUCTION NOTES

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 7

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

604-1

SHEET 1 OF 2

○ CONSTRUCTION NOTES

1. STRUCTURE – W-4" X 13 LDS CORTEN STEEL I-BEAM.
2. FACE – 3/4" THICK PHENOLIC GRAPHIC PANEL WITH THREADED INSERTS TO FASTEN ALUMINUM FRAME.
3. FRAME – 1-1/2" X 1-1/2" X 1/4" CORTEN STEEL ANGLE FRAME BACKED BY 1-1/2" X 1-1/2" X 1/4" CORTEN STEEL SQ TUBE.
4. MOUNTING – DIRECT BURY IN CONCRETE CAISSON.
5. SNOW POLE – 144" LONG SNOW POLE MOUNTED TO THE SIDE CLOSEST TO THE ROAD.
6. #3 TIES @ TOP 5", 3" MIN CLEAR, TYP.
7. REMAINING #3 TIES @ 6" O.C., 3" MIN CLEAR, TYP.
8. CONSOLIDATED CONCRETE, $f_c=3,000$ PSI
9. #6 VERTICAL TIES, 3" MIN CLEAR, TYP.
10. LOGO – RECESSED DIGITAL PRINT. TOWN OF MAMMOTH LAKES LOGO.

○ COLOR SPECIFICATIONS

- P-1 P.T.M. MAP #MP00857 BROWN W/ (SATIN) CLEAR COAT
PP PHENOLIC PANEL
SF STEEL FINISH = NATURAL FINISH

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SIGN TYPE 7 - NOTES

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

604-1

SHEET 2 OF 2

Interpretive Signs

On the following pages are proposed updates for the “Interpretive Signs” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

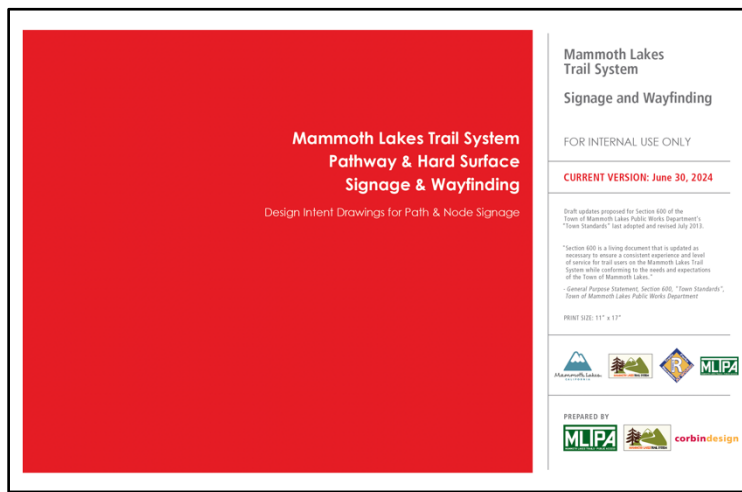


Wayfinding Signage: Interpretive Signs

Specifications for “Wayfinding Signage: Interpretive Signs” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

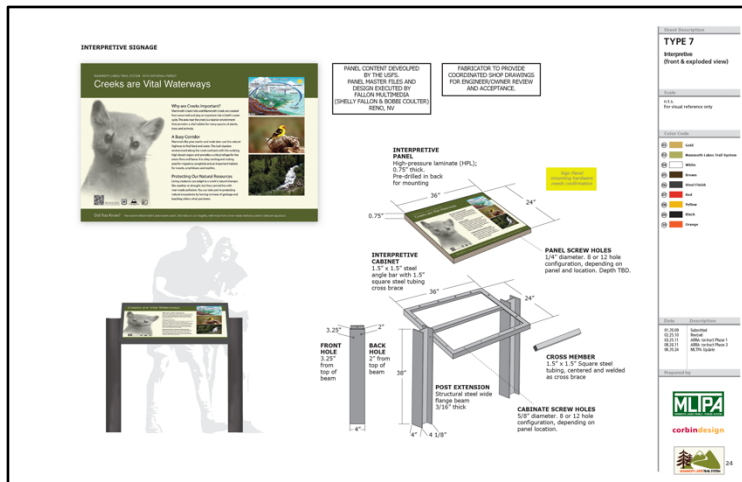
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document.
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Wayfinding Signage: Interpretive Signs

- Please see PDF pages 24 and 25 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. These same pages are included in this document on the pages that follow.

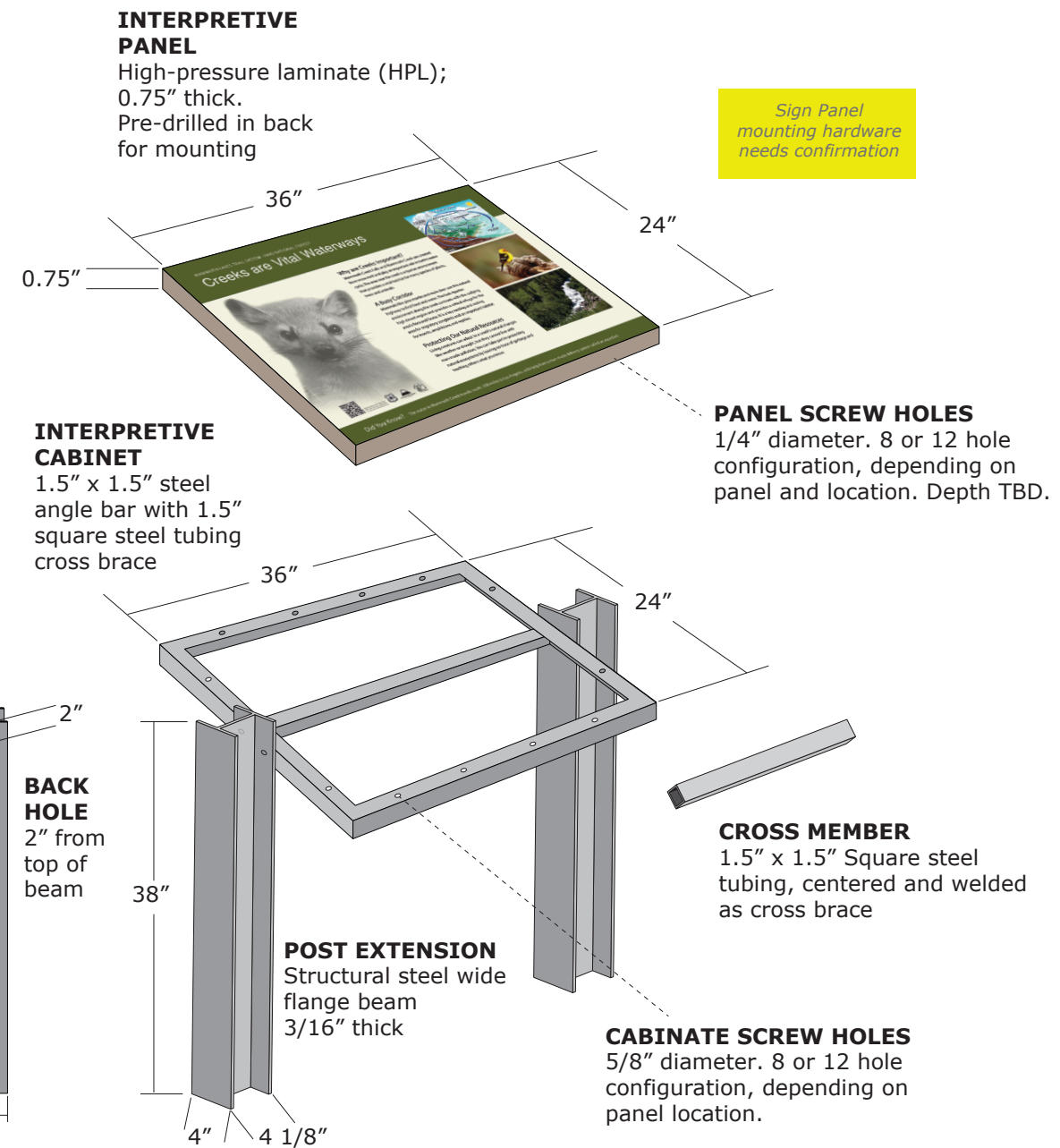


INTERPRETIVE SIGNAGE



PANEL CONTENT DEVELOPED BY THE USFS.
 PANEL MASTER FILES AND DESIGN EXECUTED BY FALLON MULTIMEDIA (SHELLY FALLON & BOBBI COULTER) RENO, NV

FABRICATOR TO PROVIDE COORDINATED SHOP DRAWINGS FOR ENGINEER/OWNER REVIEW AND ACCEPTANCE.



Sheet Description

TYPE 7
 Interpretive (front & exploded view)

Scale

n.t.s.
 For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



corbindesign



Sheet Description

TYPE 7

Interpretive



Mounting Screw Placement

Scale

n.t.s.
For visual reference only

VERIFIED BY MLTPA - 2023

Color Code

- 01  Gold
- 02  Mammoth Lakes Trail System
- 04  White
- 05  Brown
- 06  Steel Finish
- 07  Red
- 08  Yellow
- 09  Black
- 10  Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

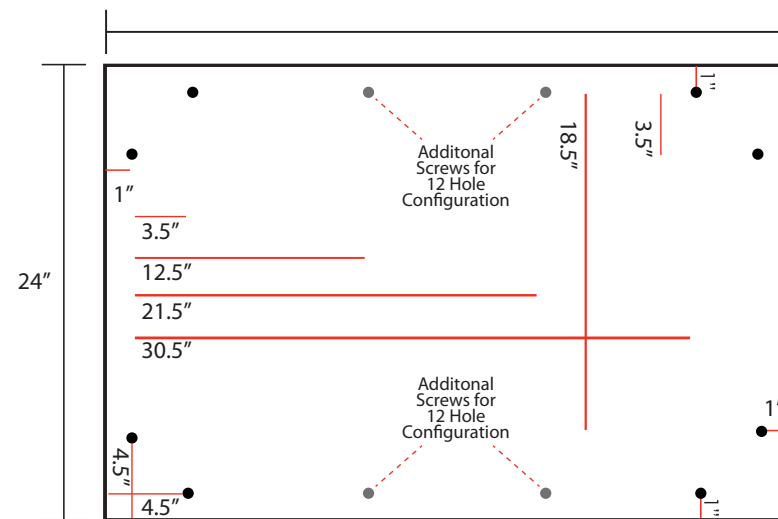
Prepared by



corbindesign



BACK



**SIGN TYPE 7
INTERPRETIVE PANEL SCREW PATTERN SPECIFICATIONS:**

Interpretive Panel: 24" x 36"

8 HOLE CONFIGURATION: Most sign locations use 8 screws(2 in each corner)

12 HOLE CONFIGURATION: Sign locations exposed to high wind or snowload use 12 screws

Horizontal Screw Pattern Spacing (top and bottom of panel): 2 or 4 screws

Vertical Screw Pattern Spacing (left and right of panel): 2 screws

Horizontal screws holes are set in 1" from edge of panel

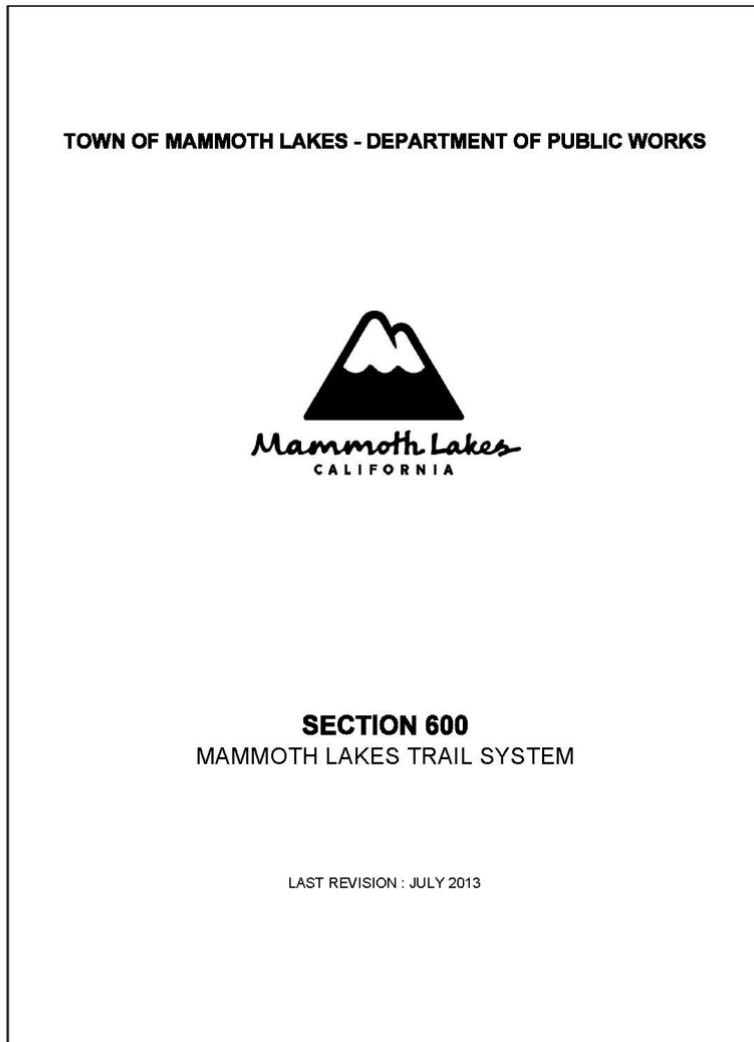
Vertical screw holes are set in 1" from edge of panel

Screw holes do not go through to front of panel

Graphic Conventions - Colors

“Graphic Conventions - Colors” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



**GRAPHIC CONVENTIONS
COLOR STANDARDS**

THIS SECTION PROVIDES THE COLOR SPECIFICATIONS THAT SHALL BE EMPLOYED
THROUGHOUT THE MAMMOTH LAKES TRAIL SYSTEM.

MLTS BROWN
CMYK: 30, 72, 74, 80
RGB: 62, 23 7

MLTS GREEN
CMYK: 19, 0, 86, 48
RGB: 126, 135, 42

MLTS ORANGE
CMYK: 0, 78, 97, 0
RGB: 241, 95, 38

MLTS GOLD
CMYK: 13, 51, 100, 1
RGB: 217, 138, 39

COLOR PALETTE



01 GOLD



02 MAMMOTH LAKES
TRAIL SYSTEM

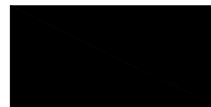


04 WHITE

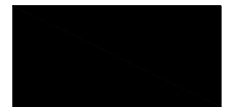
PANTONE MATCHING SYSTEM	---	---	---
MATTHEWS PAINT	MP06916	MP00811	MP11477
HIGH PERFORMANCE OPAQUE VINYL	---	---	3M WHITE 7125-10
ENGINEER GRADE REFLECTIVE SHEETING	---	---	WHITE 3290



05 BROWN



07 RED



08 YELLOW

PANTONE MATCHING SYSTEM	---	---	---
MATTHEWS PAINT	MP00857	---	---
HIGH PERFORMANCE OPAQUE VINYL	---	---	3M SUNFLOWER 7725-25
ENGINEER GRADE REFLECTIVE SHEETING	---	3M RED 3272	3M YELLOW 3271



09 BLACK



10 ORANGE

PANTONE MATCHING SYSTEM	---	---
MATTHEWS PAINT	---	---
HIGH PERFORMANCE OPAQUE VINYL	3M BLACK 7725-12	3M BRIGHT ORANGE 7725-14
ENGINEER GRADE REFLECTIVE SHEETING	---	---

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
COLOR STANDARDS**

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN

605-1

SHEET 1 OF 1

Graphic Conventions - Colors

On the following pages are proposed updates for the “Graphic Conventions - Colors” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

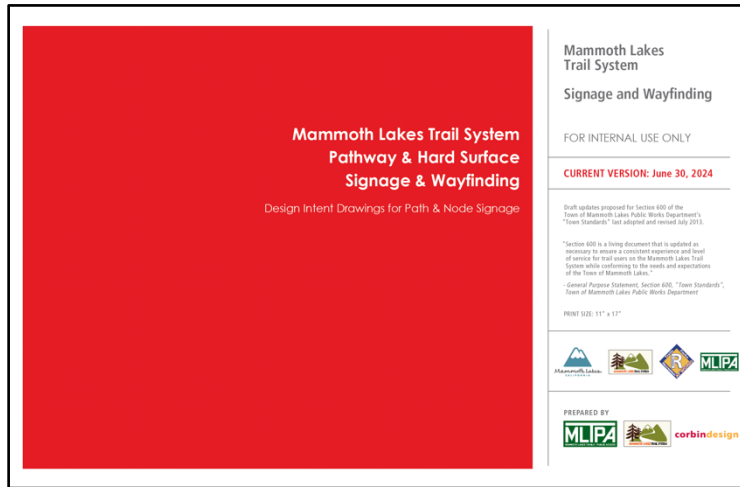


Graphic Conventions - Colors

The most current approved color palette for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System can be accessed through the most current version of various Design Intent documents maintained by the Town's Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

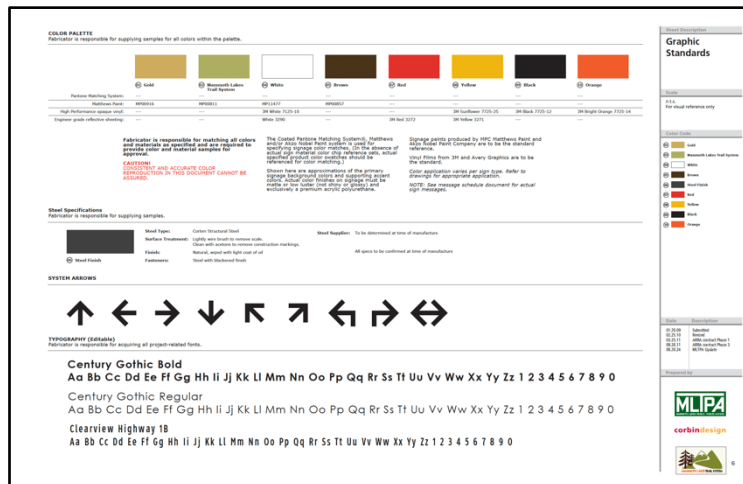
Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**




Graphic Standards - Colors

- Please see PDF page 6 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.



COLOR PALETTE

Fabricator is responsible for supplying samples for all colors within the palette.

								
	01 Gold	02 Mammoth Lakes Trail System	04 White	05 Brown	07 Red	08 Yellow	09 Black	10 Orange
Pantone Matching System:	---	---	---	---	---	---	---	---
Matthews Paint:	MP06916	MP00811	MP11477	MP00857	---	---	---	---
High Performance opaque vinyl:	---	---	3M White 7125-10	---	---	3M Sunflower 7725-25	3M Black 7725-12	3M Bright Orange 7725-14
Engineer grade reflective sheeting:	---	---	White 3290	---	3M Red 3272	3M Yellow 3271	---	---

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

CAUTION!
CONSISTENT AND ACCURATE COLOR REPRODUCTION IN THIS DOCUMENT CANNOT BE ASSURED.

The Coated Pantone Matching System®, Matthews and/or Akzo Nobel Paint system is used for specifying signage color matches. (In the absence of actual sign material color chip reference sets, actual specified product color swatches should be referenced for color matching.)

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

Signage paints produced by MPC Matthews Paint and Akzo Nobel Paint Company are to be the standard reference.

Vinyl Films from 3M and Avery Graphics are to be the standard.

Color application varies per sign type. Refer to drawings for appropriate application.

NOTE: See message schedule document for actual sign messages.

Steel Specifications

Fabricator is responsible for supplying samples.



06 Steel Finish

Steel Type: Corten Structural Steel
Surface Treatment: Lightly wire brush to remove scale. Clean with acetone to remove construction markings.
Finish: Natural, wiped with light coat of oil
Fasteners: Steel with blackened finish

Steel Supplier: To be determined at time of manufacture

All specs to be confirmed at time of manufacture

SYSTEM ARROWS



TYPOGRAPHY (Editable)

Fabricator is responsible for acquiring all project-related fonts.

Century Gothic Bold

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0

Century Gothic Regular

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0

Clearview Highway 1B

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 1 2 3 4 5 6 7 8 9 0


Sheet Description

Graphic Standards

Scale

n.t.s.
For visual reference only

Color Code

- 01  Gold
- 02  Mammoth Lakes Trail System
- 04  White
- 05  Brown
- 06  Steel Finish
- 07  Red
- 08  Yellow
- 09  Black
- 10  Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



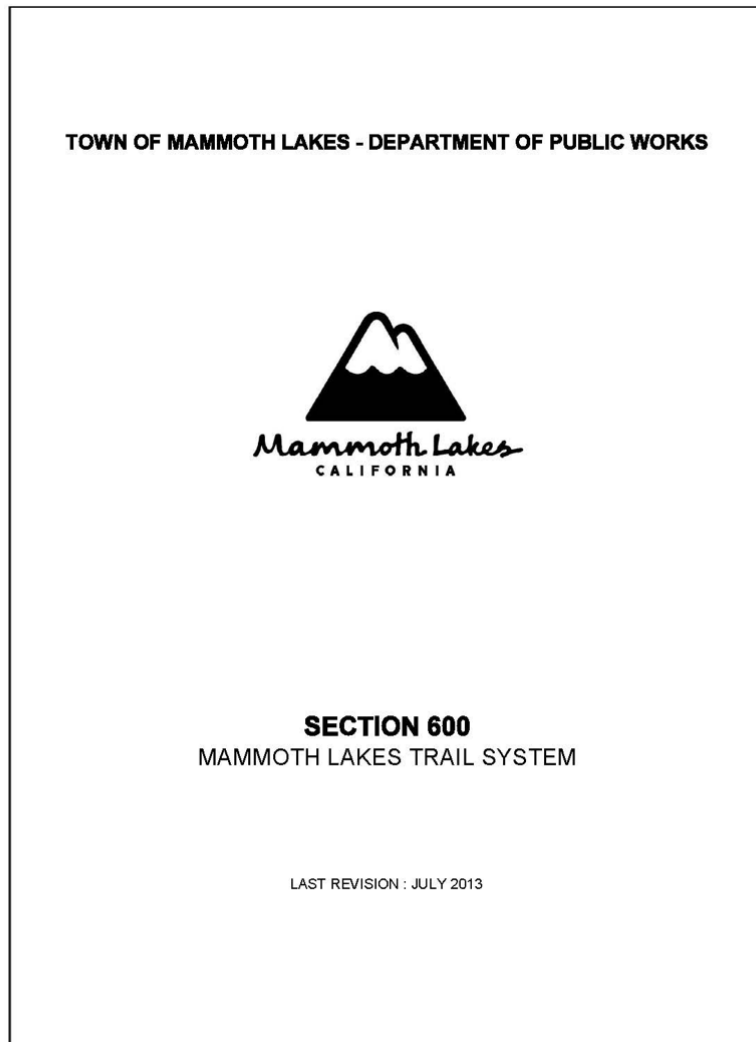
corbindesign



Graphic Conventions - Symbology

“Graphic Conventions - Symbology” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



**GRAPHIC CONVENTIONS
SYMBOLOLOGY**

THIS SECTION PROVIDES THE STANDARD SET OF SYMBOLS, FONTS, AND LOGOS THAT SHALL BE EMPLOYED THROUGHOUT THE MAMMOTH LAKES TRAIL SYSTEM.

SYSTEM SYMBOLS



HIKING
(HIKE)



DOGS ON
LEASH
(DOG)



CYCLING
(BIKE)



HOSPITAL
(HOSP)



RESTROOMS
(REST)



PICNIC AREA
(PIC)



PUBLIC
PARKING
(PARK)



TRANSPORTATION
(TRANSIT)



DRINKING
WATER
(WATER)



USFS
CAMPGROUND
(CAMP)



INFORMATION
(INFO)



PACK
STATION
(PACK)



PLAYGROUND
(PLAY)



SKATEBOARD
(SKATE)



MUSEUM
(MUSEUM)



LIBRARY (LIB)



SCHOOL
(SCH)



POINT OF
INTEREST
(POI)



LODGING
(LODGE)



FOOD SERVICES
(FOOD)

SOURCE: NATIONAL PARK SERVICE UNIHUDE PROGRAM: SEGD NATIONAL RECREATION SYMBOLS.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**GRAPHIC CONVENTIONS
SYMBOLOLOGY**

STANDARD PLAN

606-1

SHEET 1 OF 3



PUBLIC WORKS

DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

SYSTEM ARROWS



SYSTEM TYPOGRAPHY

CENTURY GOTHIC BOLD

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 0 1 2 3 4 5 6 7 8 9 0

CENTURY GOTHIC REGULAR

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 0 1 2 3 4 5 6 7 8 9 0

CLEARVIEW HIGHWAY 1B

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz 0 1 2 3 4 5 6 7 8 9 0

SYSTEM LOGOS



MAMMOTH LAKES TRAIL SYSTEM LOGO GUIDELINES

PROPER APPLICATION OF THE MAMMOTH LAKES TRAIL SYSTEM™ LOGO IS ESSENTIAL FOR PROMOTING AND PROTECTING THE BRAND. IT IS OUR GOAL TO BE CONSISTENT IN ORDER TO ACHIEVE MAXIMUM RECOGNITION.

THERE ARE FOUR DIFFERENT VARIATIONS OF THE LOGO:

- A FOUR-COLOR (4C) PREFERRED LOGO
- A FOUR-COLOR (4C) LOGO TO BE USED FOR SPECIFIC PURPOSES
- A GREY SCALE (60% BLACK) LOGO
- A BLACK (100% BLACK) LOGO



IS IT RECOMMENDED THAT THE STANDARD COLOR LOGO BE USED ONLY ON A WHITE OR GREY BACKGROUND. FILE NAME: MLTS_V1_4C



IS IT RECOMMENDED THAT THE SPECIAL COLOR LOGO BE USED ONLY FOR WAYFINDING AND SIGNAGE PURPOSES. FILE NAME: MLTS_V2_4C

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
SYMBOLGY**

PUBLIC WORKS
DIRECTOR APPROVAL:

DATE: **May 7, 2014**

STANDARD PLAN

606-1

SHEET 2 OF 3



IS IT RECOMMENDED THAT THE GREY LOGO BE USED ONLY IF THE BACKGROUND ONTO WHICH IT WILL BE APPLIED IS BLACK. THIS IS NOT A PREFERRED APPLICATION. FILE NAME: MLTS_V3_WHT



IS IT RECOMMENDED THAT THE BLACK ON WHITE LOGO BE USED ONLY ON COLORED BACKGROUNDS. FILE NAME: MLTS_V4_BLK

EXPOSURE RESTRICTIONS

THE MAMMOTH LAKES TRAIL SYSTEM™ LOGO IS DESIGNED FOR SPECIFIC USES TO MAINTAIN CONSISTENCY AND THE INTEGRITY OF THE BRAND. IT IS RECOMMENDED THAT THE LOGO BE USED WITHOUT MAKING MODIFICATIONS OR ALTERATIONS TO THE GRAPHIC. FOR EXAMPLE, CHANGING THE LOGO'S ORIENTATION, APPLYING AFFECTS, OR ROTATING THE LOGO ARE NOT RECOMMENDED.

THE TYPE AND THE ICON WORK TOGETHER AS A COMPOSITE GRAPHIC (THE LOGO) AND SHOULD ALWAYS BE REPRESENTED AS ONE ELEMENT.
THE ICON SHOULD REMAIN CENTERED ABOVE THE TYPE.
THE PROPORTIONS OF THE TWO ELEMENTS (ICON AND TYPE) SHOULD NOT BE MODIFIED.
THE LOGO SHOULD BE USED WITH A "TM" SYMBOL.

TYPOGRAPHY

MAMMOTH LAKES TRAIL SYSTEM

CENTURY GOTHIC REGULAR
OUTLINE STROKE WEIGHT: 0.0048 INCHES

COLOR VERSION:

"MAMMOTH LAKES"
ORANGE
PANTONE
CMYK 0, 78, 97, 0
RGB 241, 95, 38

BLACK AND WHITE VERSION:

TRAIL SYSTEM
BLACK
PANTONE
CMYK 0, 0, 0, 100
RGB 35, 31, 32

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
LOGO GUIDELINES**

PUBLIC WORKS
DIRECTOR APPROVAL:

DATE: **May 7, 2014**

STANDARD PLAN

606-1

SHEET 3 OF 3

Graphic Conventions Symbology

On the following pages are proposed updates for the “Graphic Conventions Symbology” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

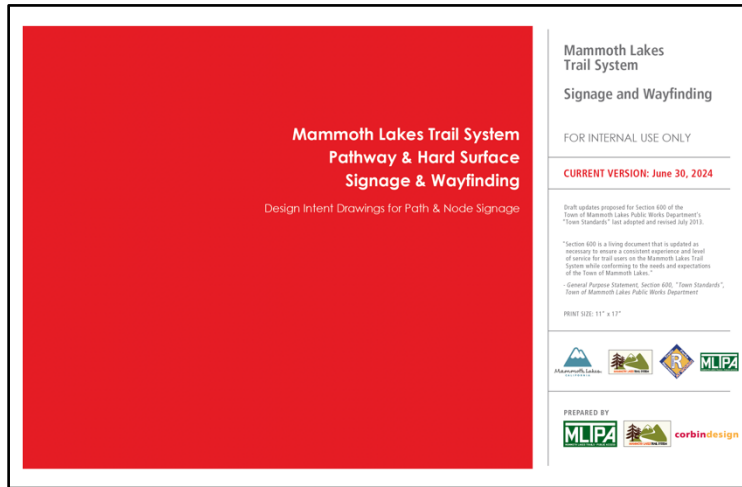


Graphic Conventions: Symbology

Specifications for “Graphic Conventions: Symbology” signs for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

Hard Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



Graphic Conventions: Symbology

- Please see PDF page 7 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.



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 (except E-Bike and Dog Laws, developed by MLTPA for MLTS)



SYSTEM REGULATORY SIGNS



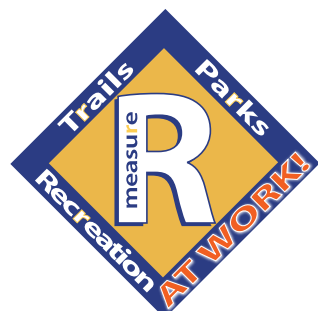
SYSTEM LOGOS



U. S. Forest Service Shield



Town of Mammoth Lakes Brand



Measure R



Mammoth Lakes Trail System Brand

Sheet Description

Graphic Standards

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

Date	Description
01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



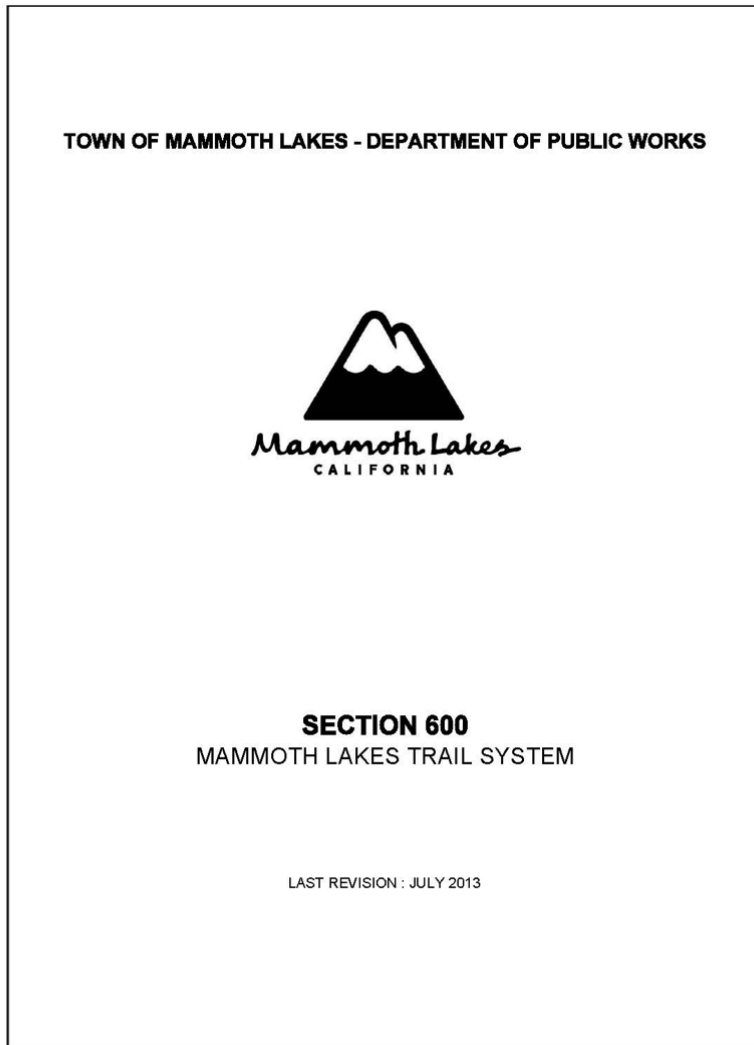
corbindesign



Graphic Conventions - Mapping

“Graphic Conventions - Mapping” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

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**GRAPHIC CONVENTIONS
MAPPING CONVENTIONS**

THIS SECTION DESCRIBES THE SPECIFICATIONS FOR THE DESIGN OF THE SIGNAGE AND WAYFINDING MAPS USED THROUGHOUT THE MAMMOTH LAKES TRAIL SYSTEM.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



MAPPING CONVENTIONS

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

607-1

SHEET 1 OF 8

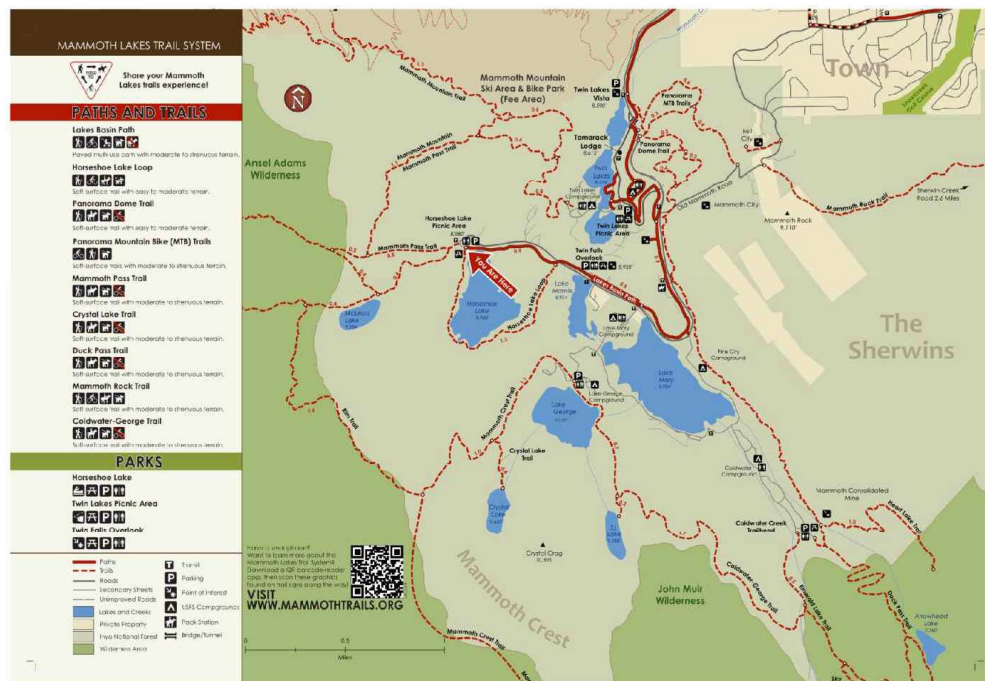
TYPE 2 FRONT-SIDE MAP

THE FRONT-SIDE MAPS ARE DISPLAYED ACCORDING TO SUB-REGIONS OF THE MAMMOTH LAKES TRAIL SYSTEM.

TOWN SUB-REGION EXAMPLE



LAKES BASIN SUB-REGION EXAMPLE



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GRAPHIC CONVENTIONS TYPE 2 FRONT SIDE MAP

STANDARD PLAN

607-1

SHEET 2 OF 8

PUBLIC WORKS
DIRECTOR APPROVAL:

DATE: May 7, 2014



MAMMOTH LAKES TRAIL SYSTEM



Share your Mammoth Lakes trails experience!

PATHS AND TRAILS

Town Loop

 Mostly paved multi-use path with moderate terrain.

Shady Rest Path

 Paved multi-use path that is mostly flat.

Panorama Dome Trail

 Soft-surface trail with easy to moderate terrain.

Panorama Mountain Bike (MTB) Trails

 Soft-surface trails with moderate to strenuous terrain.

Lakes Basin Path

 Paved multi-use path with moderate to strenuous terrain.

Mammoth Rock Trail

 Soft-surface trail with moderate to strenuous terrain.

Sherwin Lakes Trail

 Soft-surface trail with moderate to strenuous terrain.

PARKS

Mammoth Creek Park


Twin Lakes Picnic Area


Trails End Park


Community Center Park


Shady Rest Park


 Paths	 USFS Campgrounds
 Trails	 Other Campgrounds
 Planned, Under Construction	 School/College
 Roads and Highways	 Museum
 Unimproved Roads	 Library
 On-Street Bike Lanes	 Point of Interest
 Secondary Streets	 Parking
 Lakes and Creeks	 Transit
 Parks	 Bridge/Tunnel
 Private Property	
 Inyo National Forest	

TRAIL SYSTEM TITLE

BROWN BAR SPECS
 DIMENSIONS: 5.6806 IN x 0.6964 IN
 COLOR: RGB 77, 49, 20, BROWN
 FONT: 25 POINT CENTURY GOTHIC REGULAR,
 TITLE CASE, TRACK 100, WHITE

"YIELD TO" GRAPHIC

DIMENSIONS: 1.5718 IN x 1.3467 IN (TRIANGLE)
 COLOR:
 BACKGROUND: RGB 255, 254, 247, OFF-WHITE
 PINSTRIPE STROKE: RGB 178, 32, 36, RED
 GRAPHICS: HIKE, BIKE, HORSE, BLACK
 FONT: 18 POINT CENTURY GOTHIC BOLD, TITLE CASE,
 TRACK 100, BLACK

PATHS AND TRAILS HEADING

DIMENSIONS: 5.6528 IN x 0.5402 IN
 COLOR: RGB 179, 25, 0, RED
 FONT: 36 POINT CENTURY GOTHIC BOLD, TITLE CASE,
 TRACK 100, BLACK

LEGEND ENTRY

PATHS AND TRAILS NAMES
 FONT: 18 POINT CENTURY GOTHIC REGULAR,
 TITLE CASE, TRACK 100, BLACK

TEXT BELOW TRAIL NAME
 FONT: 14 POINT CENTURY GOTHIC REGULAR,
 TITLE CASE, TRACK 100, BLACK

SYMBOL SPECIFICATIONS:
 DIMENSIONS: 0.3811 IN x 0.3811 IN
 COLOR: BACKGROUND BLACK, GRAPHIC WHITE

REGULATORY SYMBOL
 DIMENSIONS: 0.3811 IN x 0.3811 IN
 COLOR: BACKGROUND BLACK, GRAPHIC WHITE
 PINSTRIPE STROKE: RGB 179, 25, 0, RED

PARKS HEADING

DIMENSIONS: 5.6528 IN x 0.5402 IN
 COLOR: RGB 138, 157, 63, GREEN
 FONT: 36 POINT CENTURY GOTHIC BOLD, TITLE CASE,
 TRACK 100, BLACK

PARK NAMES
 FONT: 18 POINT CENTURY GOTHIC BOLD,
 TRACK 100, BLACK

LEGEND WITH SYMBOLOGY

CMYK COLOR SWATCHES:
 PATHS: RGB 179, 25, 0
 TRAILS: RGB 179, 25, 0
 PLANNED, UNDER CONSTRUCTION:
 RED: RGB 179, 25, 0
 TAN: RGB 237, 236, 207
 BLACK

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
 TYPE 2 FRONT SIDE MAP LEGEND AND DESCRIPTIONS**

PUBLIC WORKS
 DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 3 OF 8

ROADS AND HIGHWAYS: RGB 105, 105, 105
ON-STREET BIKE LANES:
GREY: 105, 105, 105
BLUE: RGB 0, 146, 215
SECONDARY STREETS: RGB 130, 130, 130
LAKES AND STREAMS: RGB 101, 152, 204
PARKS: RGB 138, 157, 163
PRIVATE PROPERTY: RGB 239, 229, 198
INYO NATIONAL FOREST: RGB 210, 212, 182

SYMBOL SPECIFICATIONS

DIMENSIONS: 0.3811IN x 0.3811 IN
COLOR: BACKGROUND BLACK, GRAPHIC WHITE

BORDERS AND PINLINE STROKES

VERTICAL PINLINE STROKES: SEPARATES LEGEND FROM MAP
COLOR: RGB 77, 49, 20, BROWN
STROKE LINE WEIGHT: 2 PT
BACKGROUND
COLOR: RGB 248, 247, 236, OFF-WHITE

MAP TEXT

PATHS AND TRAIL NAMES
FONT: 14 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK
ROAD AND STREET NAMES
FONT: 14 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK
PARK NAMES
FONT: 18 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK
POINT OF INTEREST NAMES
FONT: 14 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK
RECREATION NODES
FONT: 16 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK
CAMPGROUNDS
FONT: 12 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK
ELEVATIONS
FONT: 12 POINT CENTURY GOTHIC ITALIC, TITLE CASE, TRACK 100, BLACK


MAP ENTRIES

RECREATION SYMBOL
FONT: 18 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK
PEAKS:
18 POINT TRIANGLE, BLACK
TRAILS AND PATHS
COLOR: RGB 179, 25, 0, RED
SYSTEM TRAILS
COLOR: RGB 179, 25, 0, RED
4 POINT DASHED
MAMMOTH MOUNTAIN SKI AREA BIKE PARK TRAILS:
COLOR: CMYK 30, 90, 100, 0, BROWN
1.5 DOTTED
MULTI USE PATHS (MUPS)
COLOR: BLACK WITH RED ON TOP (ROUNDED)
6.4 POINT

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
TYPE 2 FRONT SIDE MAP DESCRIPTIONS**

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 4 OF 8

NATURAL FEATURES

CREEKS

FONT: 14 POINT CENTURY GOTHIC REGULAR, ITALIC, TITLE CASE, TRACK 100
COLOR: RGB 101, 152, 204, BLUE
LINE WEIGHT: 0.0278 IN

LAKES

FONT: 14 POINT CENTURY GOTHIC REGULAR, ITALIC, TITLE CASE, TRACK 100
COLOR: RGB 101, 152, 204, BLUE
FILL COLOR: CMYK 30, 6, 7, 0

MAP GRAPHICS

SEE BACK FOR LARGER MAP - HEADING

FONT: 30 CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK

YOU ARE HERE, WITH ARROW - HEADING

THIS IS A FIXED GRAPHIC CREATED IN ADOBE ILLUSTRATOR. THIS GRAPHIC REMAINS THE SAME SIZE AND COLOR ON ALL MAPS.

ARROW COLOR: RGB 179, 20, 0, RED WITH 3 POINT WHITE STROKE AROUND THE OUTSIDE OF THE ARROW.

FONT: 18 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, WHITE

TOWN LOOP - HEADING

THE PATH, LOOP AND CONNECTOR GRAPHICS ARE CREATED IN ADOBE ILLUSTRATOR. THIS GRAPHIC IS MEANT TO FOLLOW THE PATH/TRAIL.

BOX COLOR: RGB 179, 25, 0, RED.

A 0.5 POINT GREY STROKE IS AROUND THE OUTSIDE OF THE BOX. CMYK 0, 0, 0, 100

FONT: 18 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, WHITE

AREA LABELS


FONT: 30 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, VARIATION OF GREEN COLORS TO MATCH THE BACKGROUND.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
TYPE 2 FRONT SIDE MAP DESCRIPTIONS**

PUBLIC WORKS

DIRECTOR APPROVAL: 

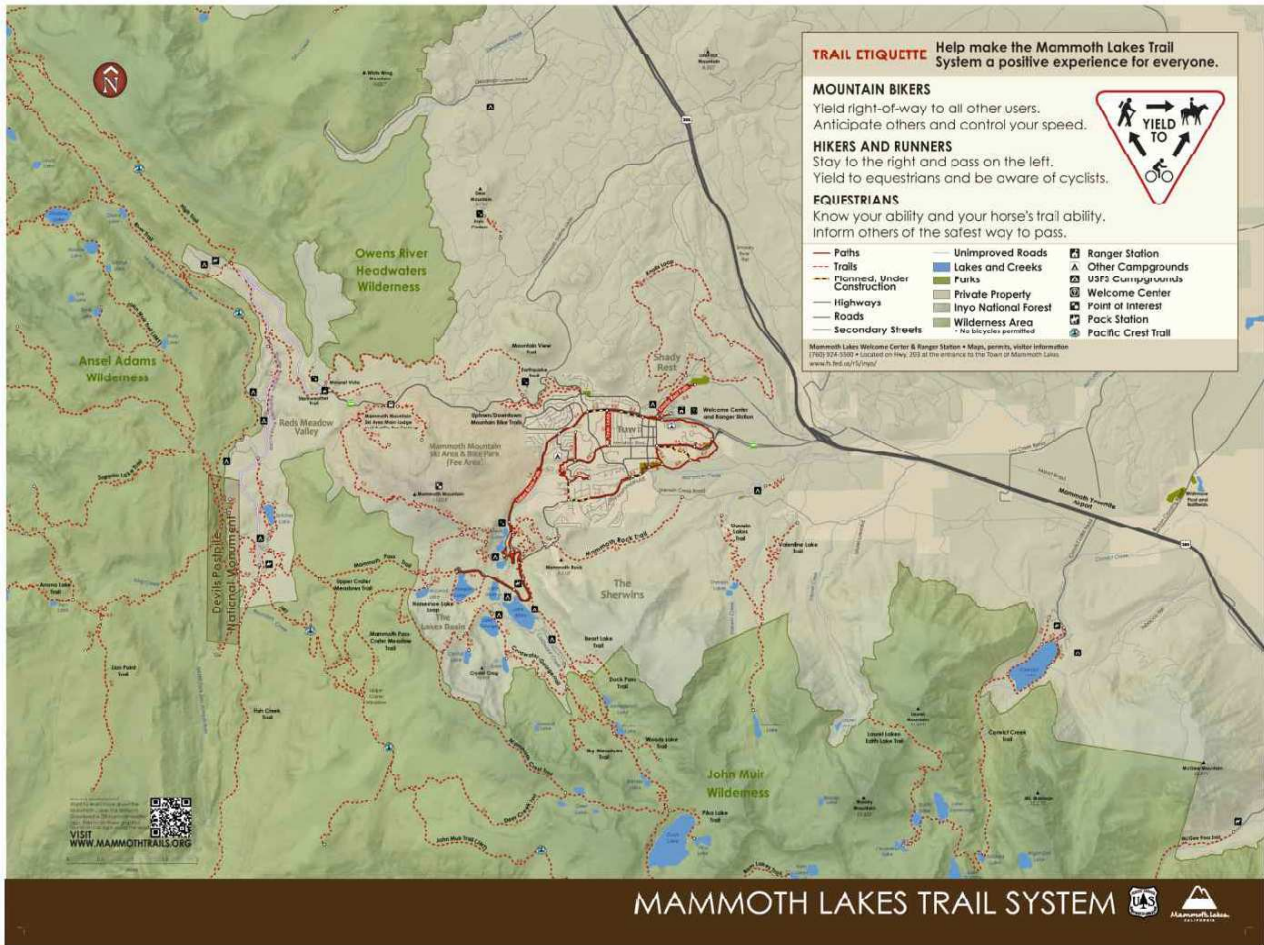
DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 5 OF 8

TYPE 2 BACK-SIDE MAP



LEGEND SPECIFICATIONS

DIMENSIONS: 17.875 IN x 13.1957 IN
 BOX OUTER STROKE COLOR: RGB 77, 49, 20, BROWN

TRAIL ETIQUETTE HEADING

COLOR: RGB 179, 25, 0, RED
 FONT: 46 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100

HELP MAKE THE MAMMOTH LAKES TRAIL SYSTEM A POSITIVE EXPERIENCE FOR EVERYONE - HEADING

COLOR: CMYK 24, 100, 100, 0, BLACK
 FONT: 40 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
 TYPE 2 BACK SIDE MAP AND LEGEND DESCRIPTIONS**

PUBLIC WORKS
 DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 6 OF 8

"YIELD TO" GRAPHIC AND TEXT

DIMENSIONS: 17.875 IN x 16.089 IN
BOX COLOR: RGB 248, 247, 236, LIGHT TAN
DIVIDER LINE: RGB 217, 208, 182, TAN
DIVIDER LINE TRANSPARENCY: 87%

MAIN HEADINGS

FONT: 40 POINT CENTURY GOTHIC BOLD, TITLE CASE, TRACK 100, BLACK

TEXT BELOW MAIN HEADINGS

FONT: 40 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK

"YIELD TO" SPECIFICATIONS

DIMENSIONS: 1.5718 IN x 1.3467 IN TRIANGLE
BACKGROUND COLOR: RGB 255, 254, 247, OFF WHITE
PINSTRIPE STROKE: RGB 178, 32, 36, RED
GRAPHICS: HIKE, BIKE, HORSE AND ARROWS, BLACK

LEGEND WITH SYMBOLOGY

DIMENSIONS: 17.8194 IN x 3.4107 IN
COLOR: RGB 255, 254, 246, OFF WHITE

SYMBOLOGY DESCRIPTIONS

FONT: 30 POINT CENTURY GOTHIC BOLD, TRACK 100, BLACK

CMYK COLOR SWATCHES

PATHS: 179, 25, 0, RED
TRAILS: 179, 25, 0, RED
PLANNED, UNDER CONSTRUCTION:
RED: 179, 25, 0
TAN: 237, 236, 207
BLACK

ROADS AND HIGHWAYS: 105, 105, 105
UNIMPROVED ROADS: 130, 130, 130, GREY
ON-STREET BIKE LANES
GREY: 105, 105, 105
BLUE: 0, 146, 215

SECONDARY STREETS: 130, 130, 130, GREY
LAKES AND STREAMS: 101, 152, 204, BLUE
PARKS: 138, 157, 163, GREEN
PRIVATE PROPERTY: CUSTOM
INYO NATIONAL FOREST: CUSTOM
WILDERNESS: CUSTOM

SYMBOL SPECIFICATIONS

DIMENSIONS: 0.3811 IN x 0.3811 IN

INFORMATION BAR

DIMENSIONS: 17.8194 IN x 1.2757 IN
COLOR: RGB 217, 208, 182, TAN

MAMMOTH LAKES WELCOME CENTER & RANGER STATION - HEADING

21 POINT CALIBRI BOLD, TITLE CASE, TRACK 100, BLACK

MAPS, PERMITS, VISITOR CENTER - HEADING

21 POINT CALIBRI BOLD, TITLE CASE, TRACK 100, BLACK

(760) 924-5500 LOCATED ON HWY. 203 AT THE ENTRANCE TO THE TOWN OF MAMMOTH LAKES

WWW.FS.FED.US/R5/INYO/ - HEADING

21 POINT CALIBRI REGULAR, TITLE CASE, TRACK 100, BLACK

MAMMOTH LAKES TRAIL SYSTEM LOGO BAR

DIMENSIONS: 50 IN x 2 IN

BOX COLOR: RGB 77, 49, 20, BROWN, NO OUTLINE

FONT DIMENSIONS: 19.6792 IN x 0.9666, CENTURY GOTHIC REGULAR, UPPER CASE, TRACK 100, BLACK

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
TYPE 2 BACK SIDE MAP LEGEND DESCRIPTIONS**

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 7 OF 8

QR CODE

DIMENSIONS: 1.6828 IN x 1.6828 IN

QR CODE SHALL BE DEVELOPED AND PROVIDED BY THE TOWN OF MAMMOTH LAKES.
HAVE A SMARTPHONE? - TEXT

FONT: 14 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK

VISIT WWW.MAMMOTHTRAILS.ORG - TEXT

FONT: 29 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK

QR CODE SIGN ID

FONT: 8 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK

SCALE BAR

FONT: 14 POINT CENTURY GOTHIC REGULAR, TITLE CASE, TRACK 100, BLACK

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**GRAPHIC CONVENTIONS
TYPE 2 BACK SIDE MAP LEGEND DESCRIPTIONS**

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

607-1

SHEET 8 OF 8

Mapping Conventions

On the following pages are proposed updates for the “Mapping Conventions” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



Mapping Conventions

Recommendations: August 1, 2019

TYPE 2 FRONT (LB)

GIS

- Map generated by GIS with scale bar (.ai file).
- Added background shading layer. (AM)

Illustrator

- Aesthetic tweaks to lines and paths, new symbology, appearances.
- Label and icon tweaks for screw holes and legend). (Joel)

InDesign

- Add legend,
- north arrow,
- sign ID,
- QR code,
- QR code text,
- updated you are here arrow,
- lakes basin path label,
- area labels (Town, The Sherwins, Mammoth Crest). (KP)

TYPE 2 FRONT (TOWN)

GIS

- Map generated by GIS with scale bar (.ai file).
- Added background shading layer. (AM)

Illustrator –

- Aesthetic tweaks to lines and paths, new symbology, appearances.
- Label and icon tweaks for screwholes and legend. (Joel)

InDesign –

- Add legend,
- north arrow,
- sign ID,
- QR code,
- QR code text,
- updated you are here arrow,
- path labels (Lakes Basin Path, Lodestar Connector, Town Loop x4, Shady Rest Path, Meridian Connector, Library-College Connector),
- area labels (Town, The Sherwins),
- Library Symbol,
- College Symbol,

- Sherwins Trailhead label with Parking Symbol and paved area polygon. (KP)

TYPE 2 BACK (BIG MAP)

GIS –

- Map generated by GIS (.ai file).
- Added background shading layer.
- Label and icon tweaks for screwholes and legend. (AM)

Illustrator –

- Aesthetic tweaks to lines and paths,
- new symbology,
- appearances (Joel)

InDesign –

- Add legend with etiquette info,
- brown bar,
- title with logos,
- sign ID,
- QR code,
- QR code text,
- scale bar,
- area labels (Town, Shady Rest, The Sherwins, The Lakes Basin, Reds Meadow Valley),
- MMSA lable (Mammoth Mountain Ski and Bike Park (Fee Area)),
- path labels (Lakes Basin Path, Town Loop x2, Shady Rest Path),
- HWY 203 lables x2,
- PCT labels x5). (KP)

TYPE 4/6

GIS

- Map generated by GIS with brown bar,
- “visit www.mammothtrails.org”,
- scale bar,
- updated north arrow,
- updated you are here arrow.
- Added background satellite layer.
- Label and icon tweaks for screwholes and legend. (AM)

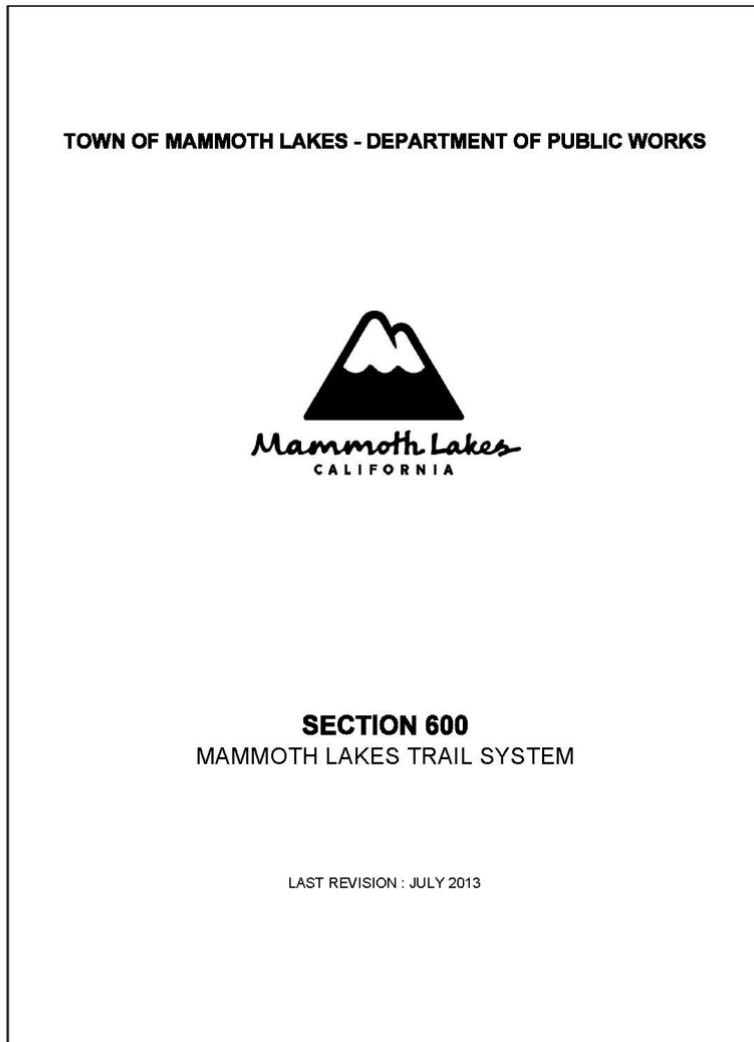
InDesign –

- Add sign ID,
- QR code.
- Add screw hole layer (Holes 7/16”, Hex head 5/8”).
- Some anomalous symbols added in specific files? (KP)

Multi-Use Paths

“Multi-Use Paths” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



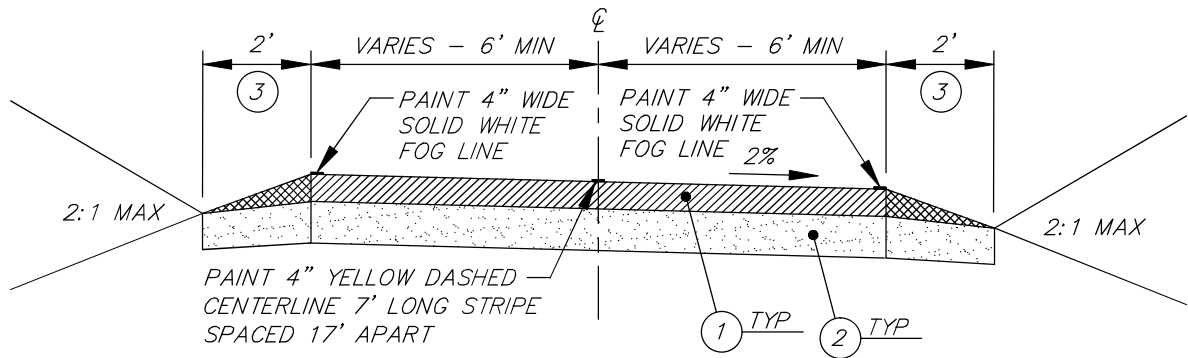
MULTI-USE PATHS

THIS SECTION PROVIDES STANDARDS FOR THE CONSTRUCTION OF MULTI-USE PATHS, INCLUDING SPECIFICATIONS FOR MATERIALS AND A TYPICAL SECTION.

MATERIALS

1. AGGREGATE BASE SHALL BE CLASS II, 3/4" MAXIMUM GRADING, AND SHALL CONFORM TO THE PROVISIONS OF SECTION 26, "AGGREGATE BASES" OF THE CSS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557.
2. ASPHALT CONCRETE SHALL BE CLASS B, 1/2" MAXIMUM GRADING, AND SHALL CONFORM TO THE PROVISIONS OF SECTION 39, "HOT MIX ASPHALT " OF THE CSS. SEAL COAT OF SS-1 OR CSS-1 ASPHALT SHALL BE APPLIED AT 40-70 GALLONS PER SQUARE FOOT TO NEW ASPHALT CONCRETE PAVED SURFACES. TACK COAT BETWEEN PAVEMENT LIFTS (3" MAXIMUM LIFT) OR FOR CAPPING EXISTING PAVEMENT SHALL BE CSS-1 OR SS-1 APPLIED AT 45 GALLONS PER SQUARE FOOT PER SECTION 94, "ASPHALTIC EMULSIONS" OF THE CSS.
3. SLURRY CEMENT BACKFILL SHALL CONFORM TO THE PROVISIONS IN SECTION 19-3.02D, "SLURRY CEMENT BACKFILL" OF THE CSS.
4. INSTALLATION OF TRAFFIC STRIPES AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE PROVISIONS OF SECTION 84, "TRAFFIC STRIPES AND PAVEMENT MARKINGS" OF THE CSS.

TYPICAL SECTION



○ CONSTRUCTION NOTES

1. 2 1/2" ASPHALT CONCRETE.
2. 4" CLASS II AGGREGATE BASE COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS RELATIVE DENSITY
3. CLASS II AGGREGATE BASE SHOULDER BACKING. TAPER FROM 2 1/2" TO 0".

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

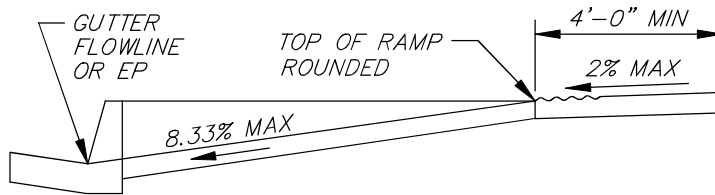


MULTI-USE PATHS

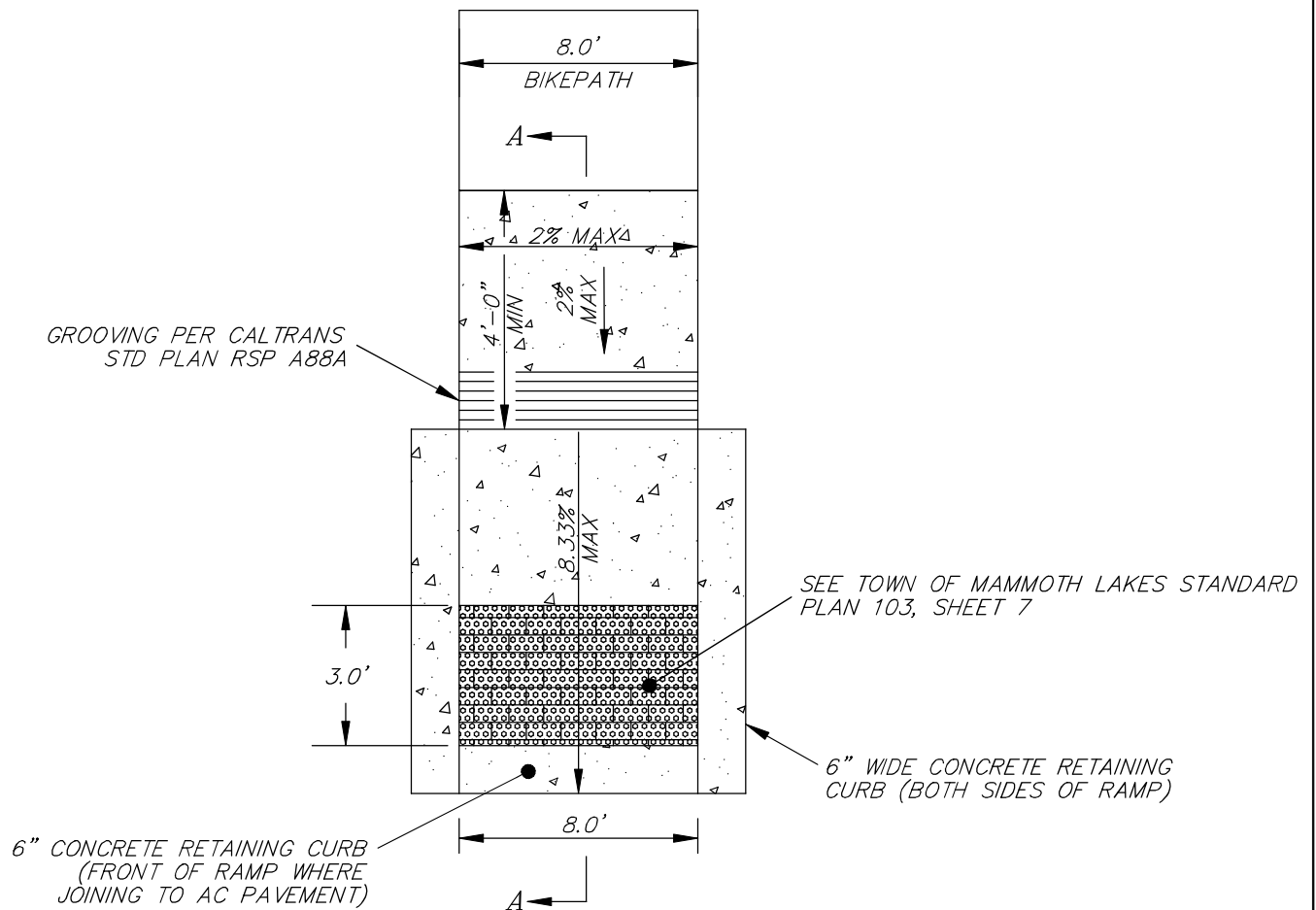
PUBLIC WORKS DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN
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SHEET 1 OF 4



SECTION A-A
N.T.S.



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**MULTI-USE PATHS
TYPICAL INTERSECTION RAMP - TYPE A**

STANDARD PLAN

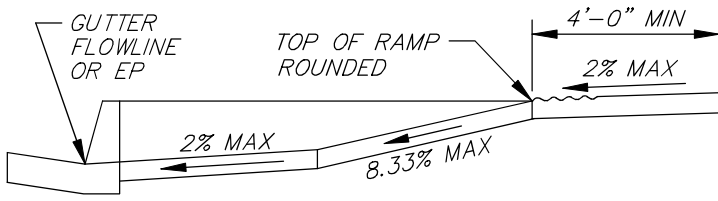
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SHEET 2 OF 4

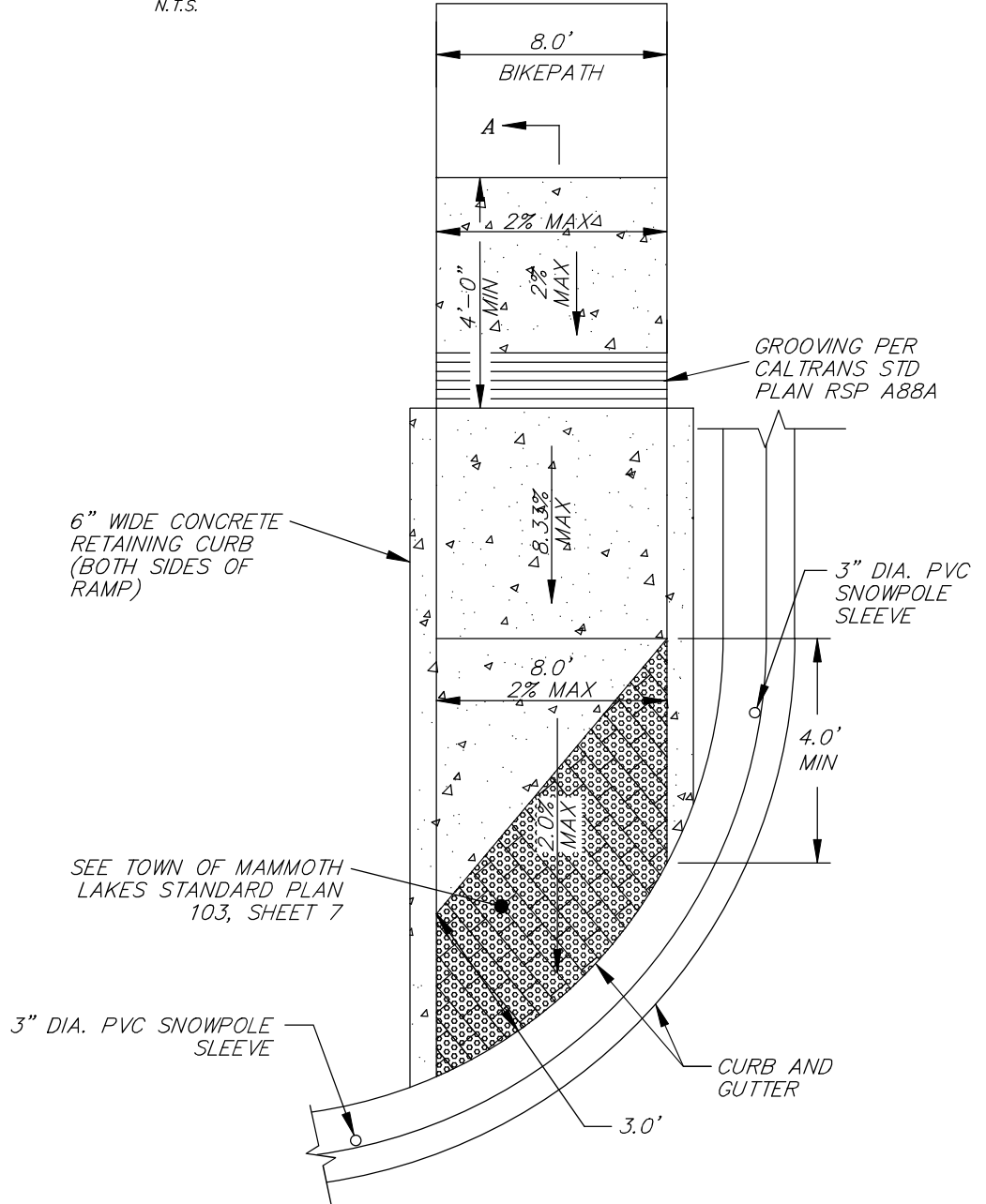


PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



SECTION A-A
N.T.S.



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**MULTI-USE PATHS
TYPICAL INTERSECTION RAMP - TYPE B**

STANDARD PLAN

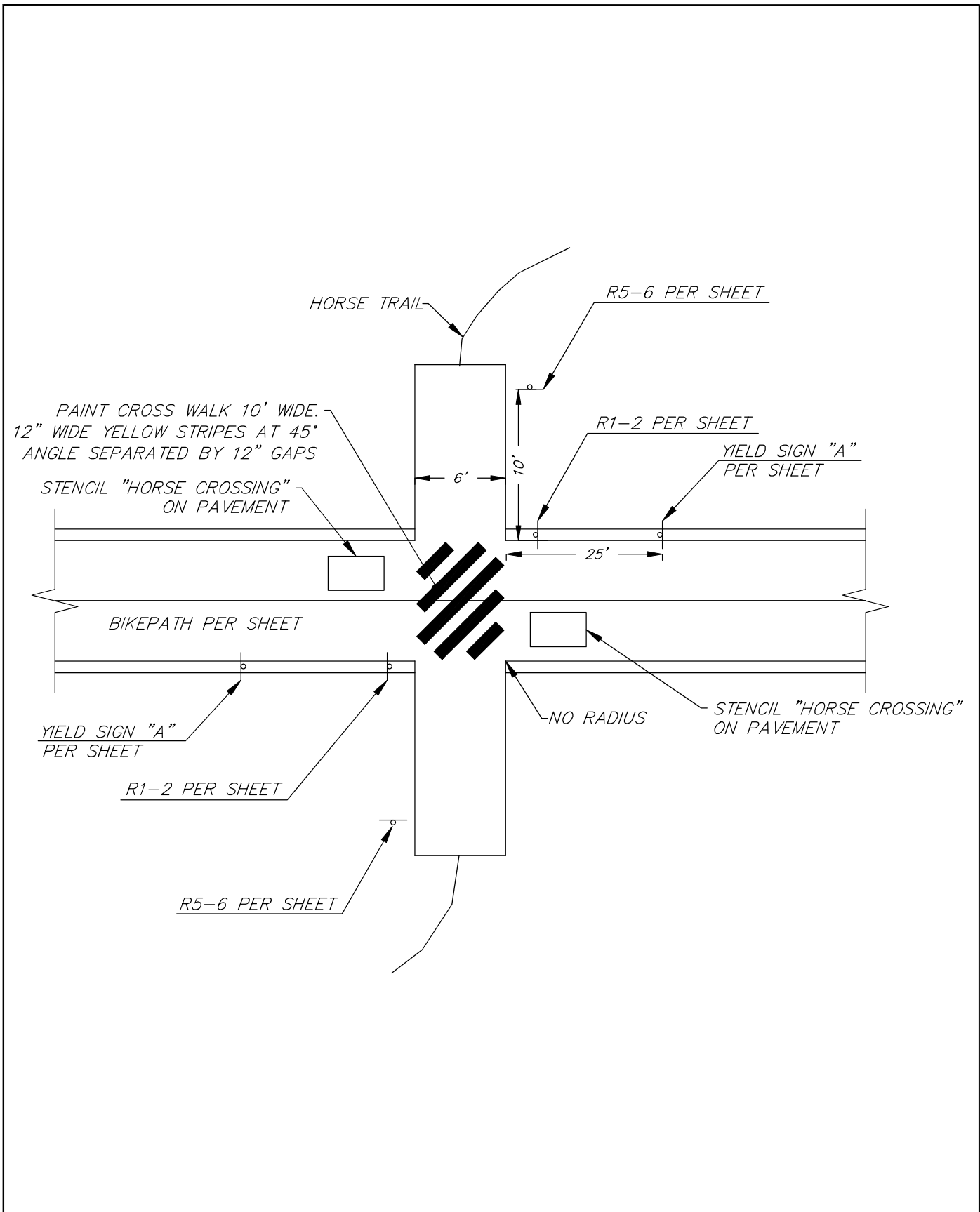
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SHEET 3 OF 4



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**MULTI-USE PATHS
EQUESTRIAN CROSSING**

STANDARD PLAN

608-1

SHEET 4 OF 4



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

Multi-Use Paths

On the following pages are proposed updates for the “Multi-Use Paths” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



Multi Use Paths

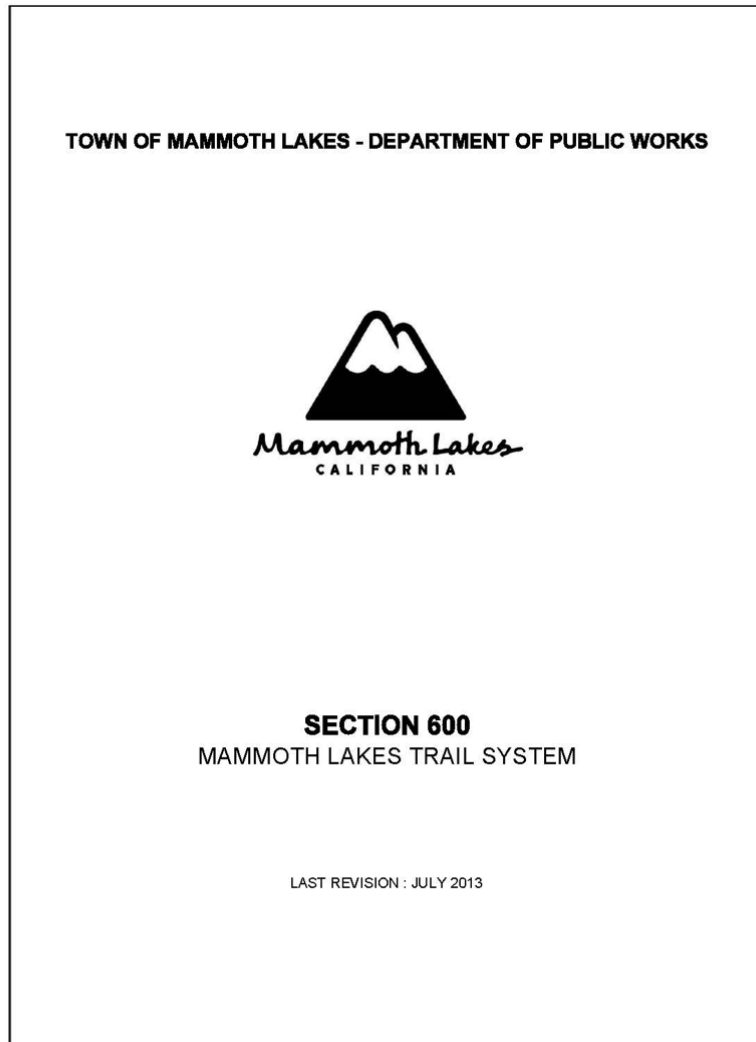
RECOMMENDATIONS

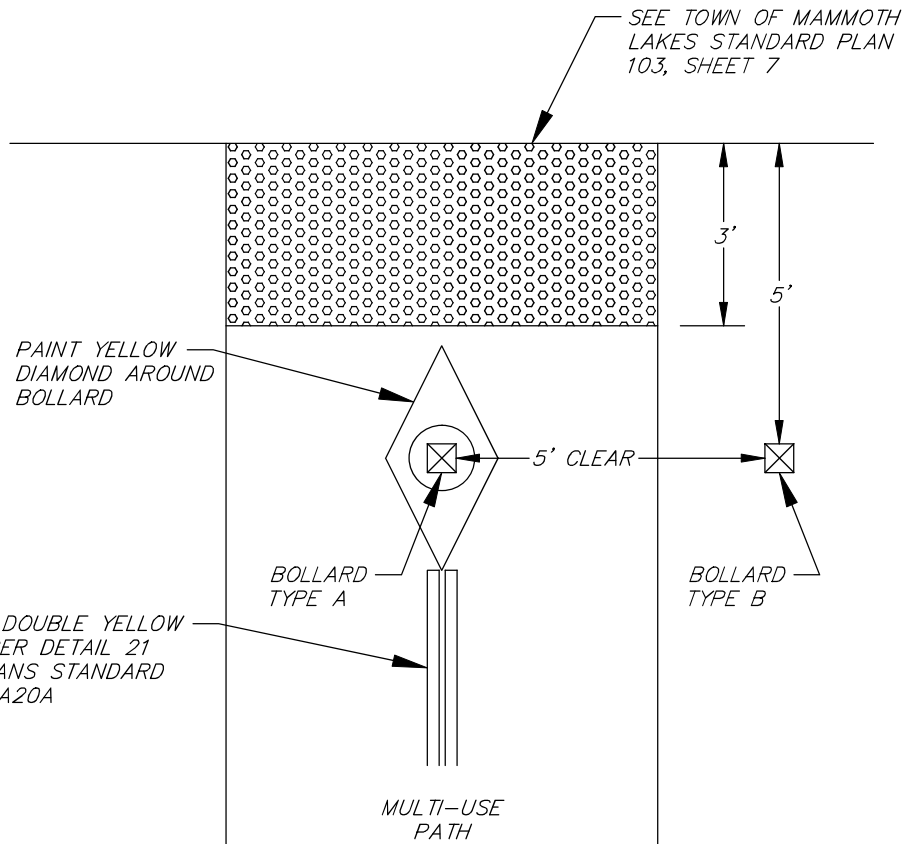
- No recommendations for Multi Use Paths (MUPS) as of June 30, 2024

Bollards

“Bollards” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.





TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**BOLLARD PLACEMENT
AT INTERSECTION**

STANDARD PLAN

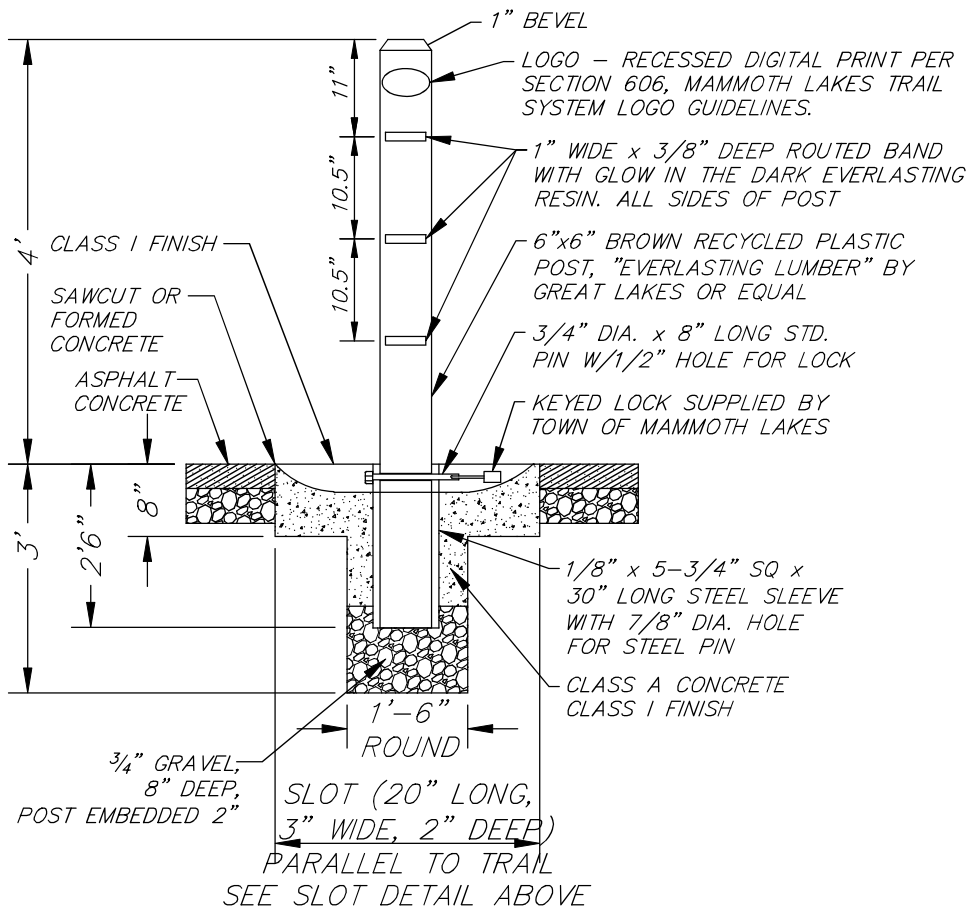
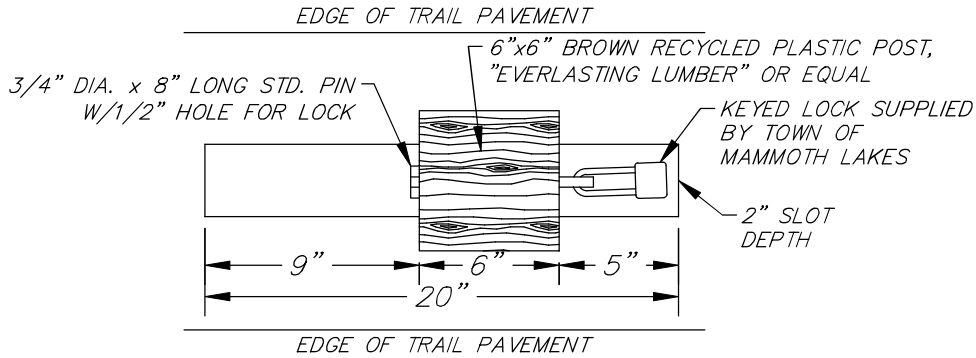
609-1

SHEET 1 OF 3



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**MULTI-USE PATHS
BOLLARD - TYPE A**

STANDARD PLAN

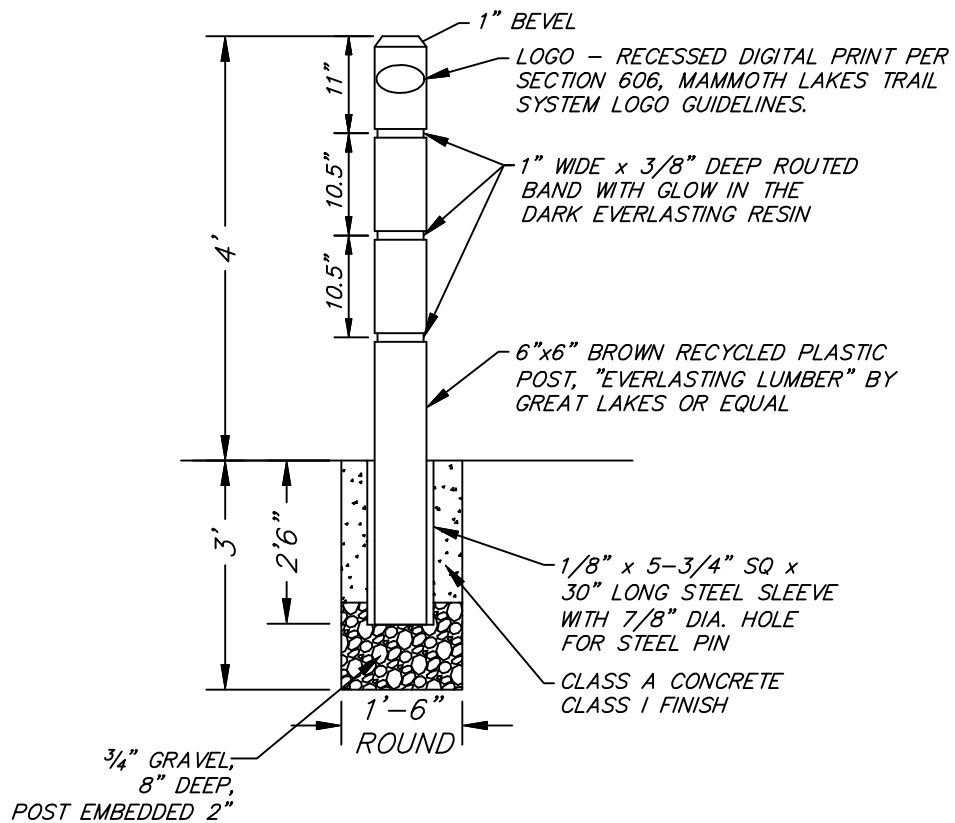
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SHEET 2 OF 3



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

**MULTI-USE PATHS
BOLLARD - TYPE B**

STANDARD PLAN

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SHEET 3 OF 3



PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

Bollards

On the following pages are proposed updates for the “Bollards” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

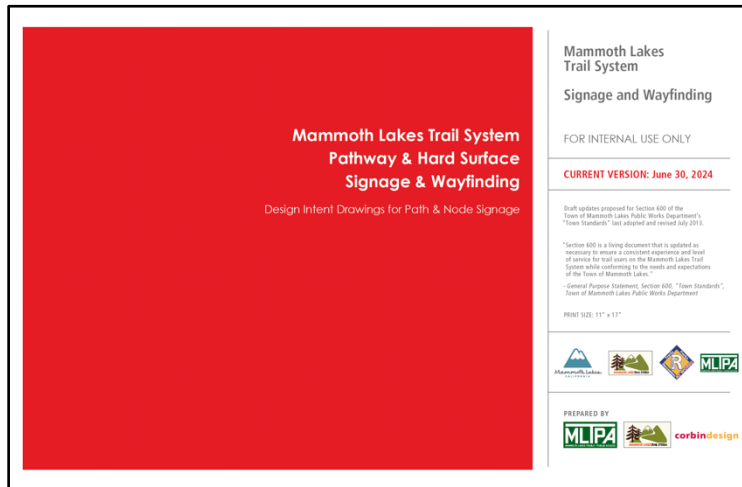


Bollards

Specifications for “Bollards” for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

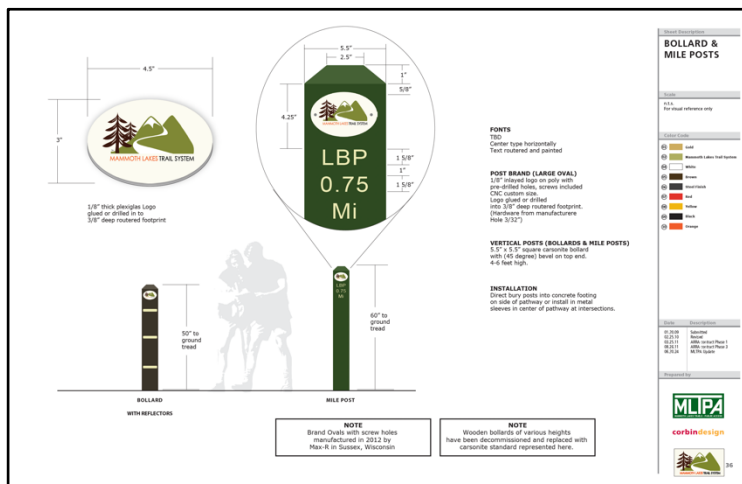
Hard Surface Design Intent

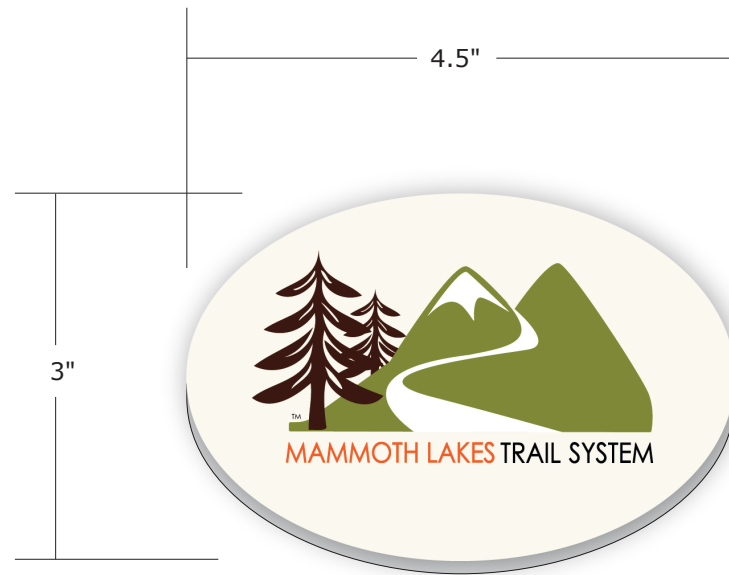
- Please see the current version of the Mammoth Lakes Trail System “Hard Surface Design Intent” and “Soft Surface Design Intent”
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Pathways_Hard Surface_240630_FINAL**



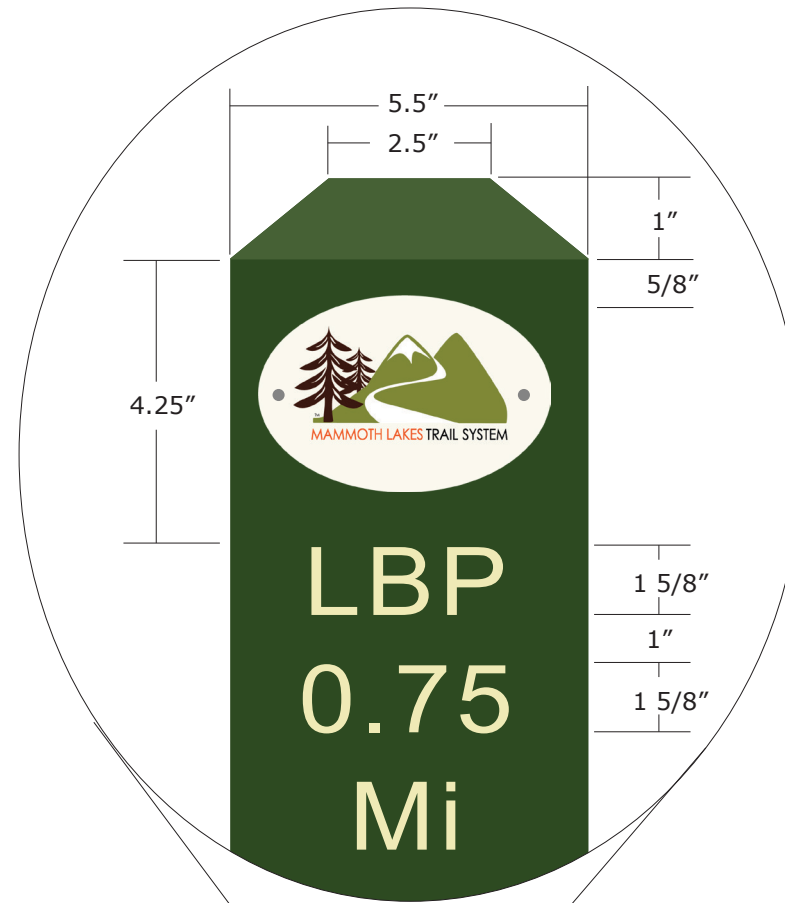
Bollards

- Please see PDF page36 of the current Mammoth Lakes Trail System “Pathway & Hard Surface” design intent document. This same page is included in this document on the page that follows.





1/8" thick plexiglas Logo
glued or drilled in to
3/8" deep routed footprint



FONTS

TBD
Center type horizontally
Text routed and painted

POST BRAND (LARGE OVAL)

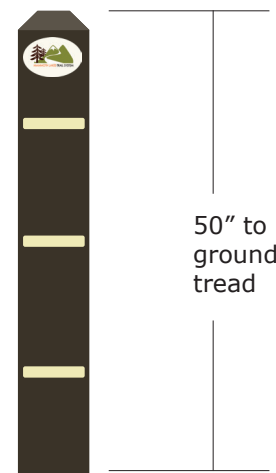
1/8" inlayed logo on poly with
pre-drilled holes, screws included
CNC custom size.
Logo glued or drilled
into 3/8" deep routed footprint.
(Hardware from manufacturer
Hole 3/32")

VERTICAL POSTS (BOLLARDS & MILE POSTS)

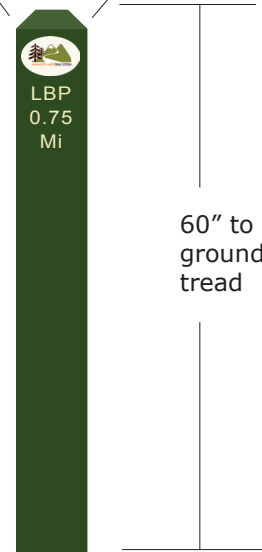
5.5" x 5.5" square carsonite bollard
with (45 degree) bevel on top end.
4-6 feet high.

INSTALLATION

Direct bury posts into concrete footing
on side of pathway or install in metal
sleeves in center of pathway at intersections.



**BOLLARD
WITH REFLECTORS**



MILE POST

NOTE
Brand Ovals with screw holes
manufactured in 2012 by
Max-R in Sussex, Wisconsin

NOTE
Wooden bollards of various heights
have been decommissioned and replaced with
carsonite standard represented here.

Sheet Description

BOLLARD & MILE POSTS

Scale

n.t.s.
For visual reference only

Color Code

- 01 Gold
- 02 Mammoth Lakes Trail System
- 04 White
- 05 Brown
- 06 Steel Finish
- 07 Red
- 08 Yellow
- 09 Black
- 10 Orange

Date Description

01.30.09	Submitted
02.25.10	Revised
03.25.11	ARRA contract Phase 1
08.26.11	ARRA contract Phase 3
06.30.24	MLTPA Update

Prepared by



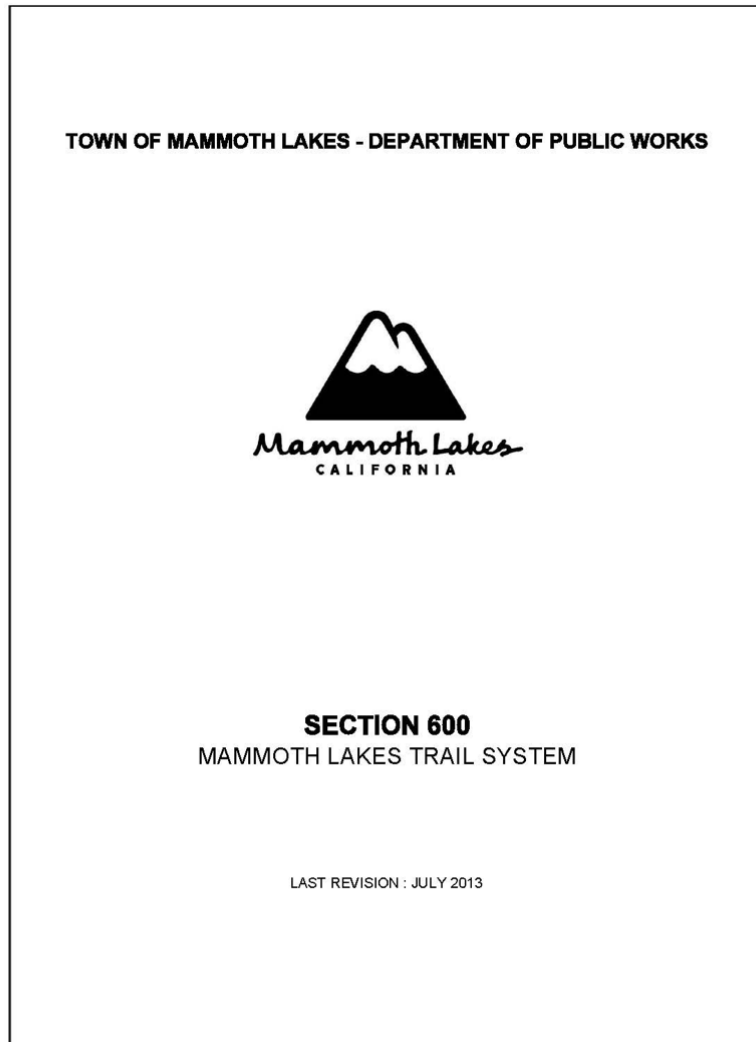
corbindesign

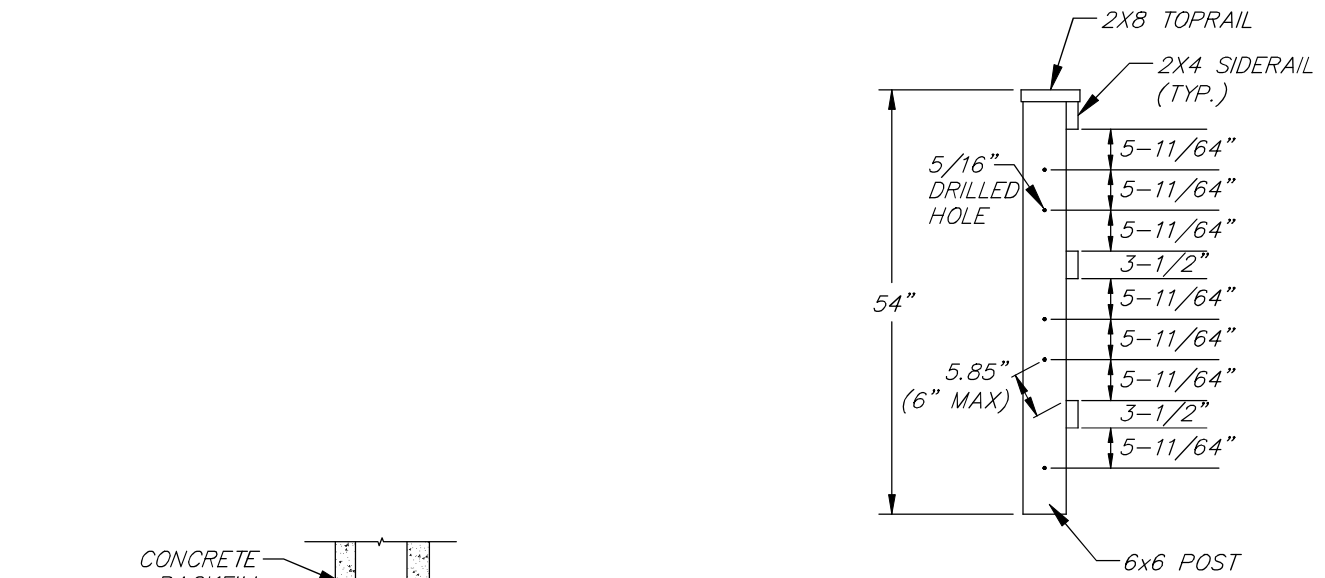


Multi-Use Path Guardrails

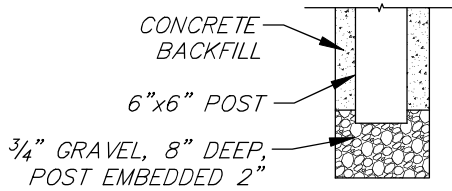
“Multi-Use Path Guardrails” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

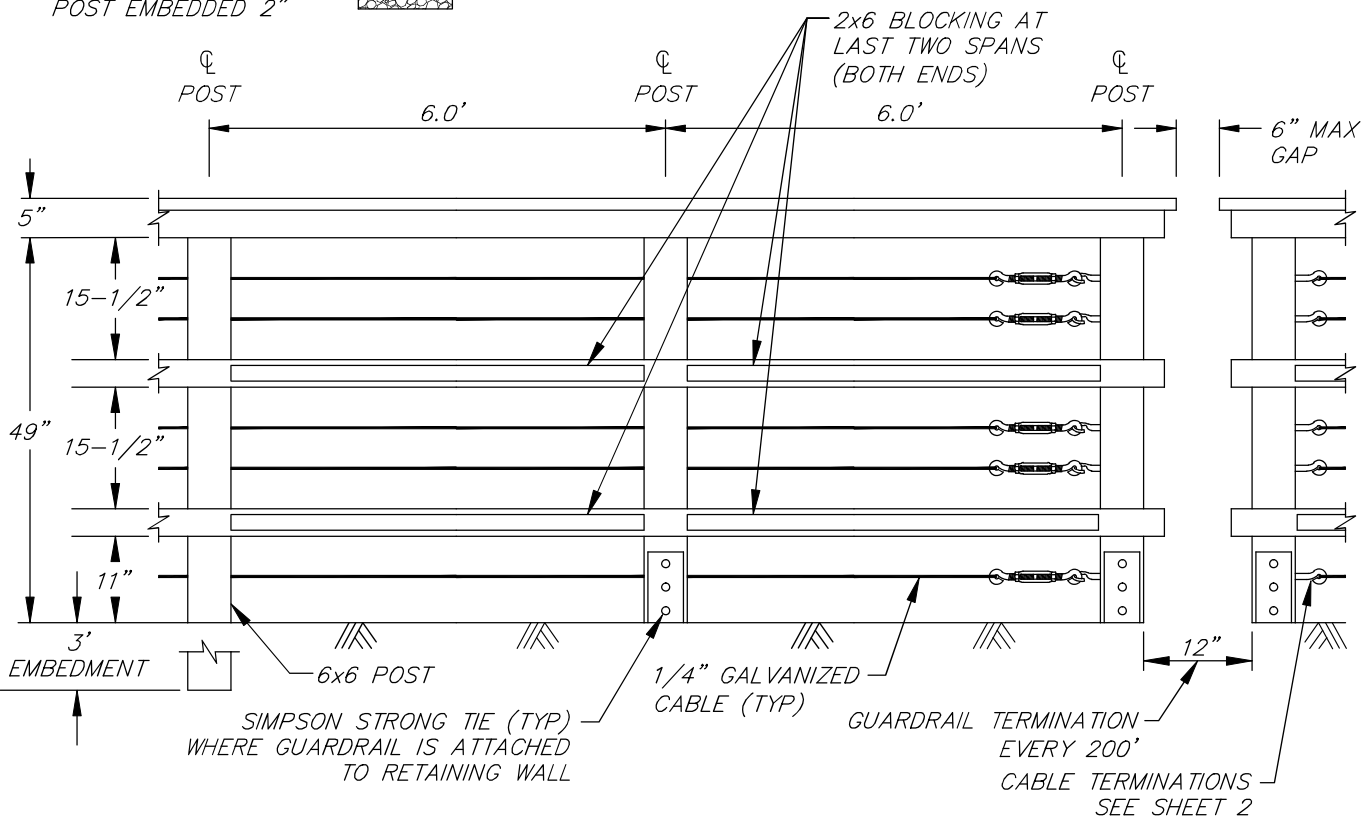




SIDE ELEVATION
N.T.S.



COMPACT BACKFILL TO 95%.
IF CONCRETE BACKFILL,
PLACE GRAVEL AT BOTTOM
OF HOLE PER DETAIL HEREON.



FRONT ELEVATION
N.T.S.

NOTE
ALL POSTS AND RAILINGS SHALL
BE WOLMANIZED DOUGLAS FIR

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

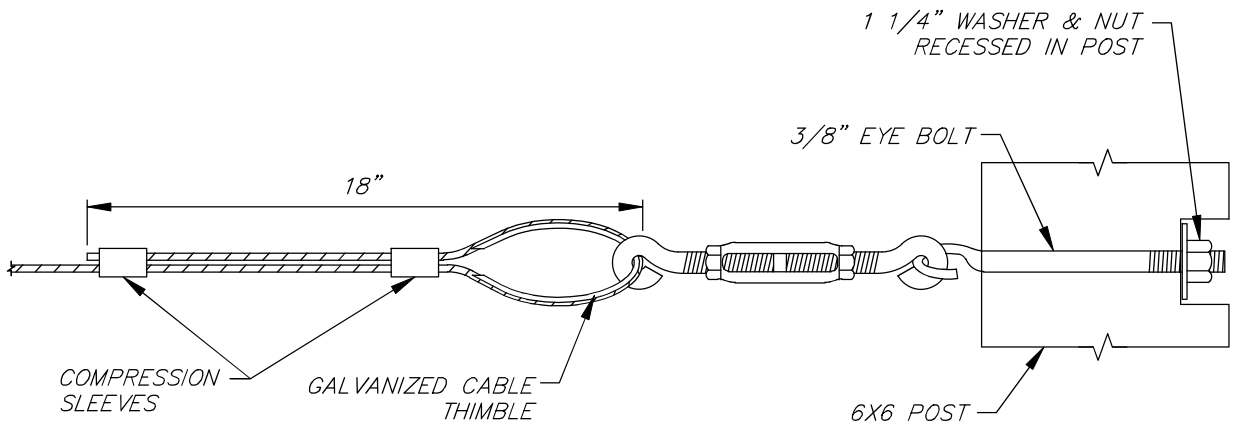
**MULTI-USE PATHS
WOOD FENCE GUARDRAIL**

STANDARD PLAN
610-1
SHEET 1 OF 4



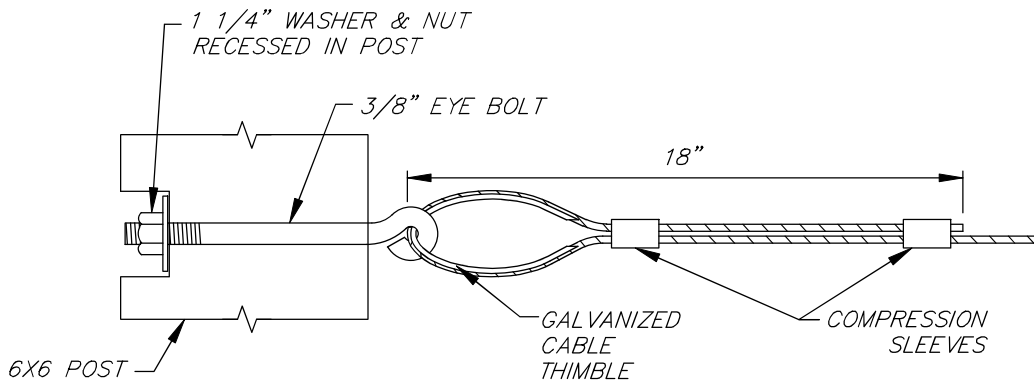
PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**



TERMINATION WITH TURNBUCKLE

USE AT ONE END OF EACH SECTION
N.T.S.



TERMINATION WITHOUT TURNBUCKLE

USE AT ONE END OF EACH SECTION
N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**MULTI-USE PATHS
CABLE TERMINATIONS**

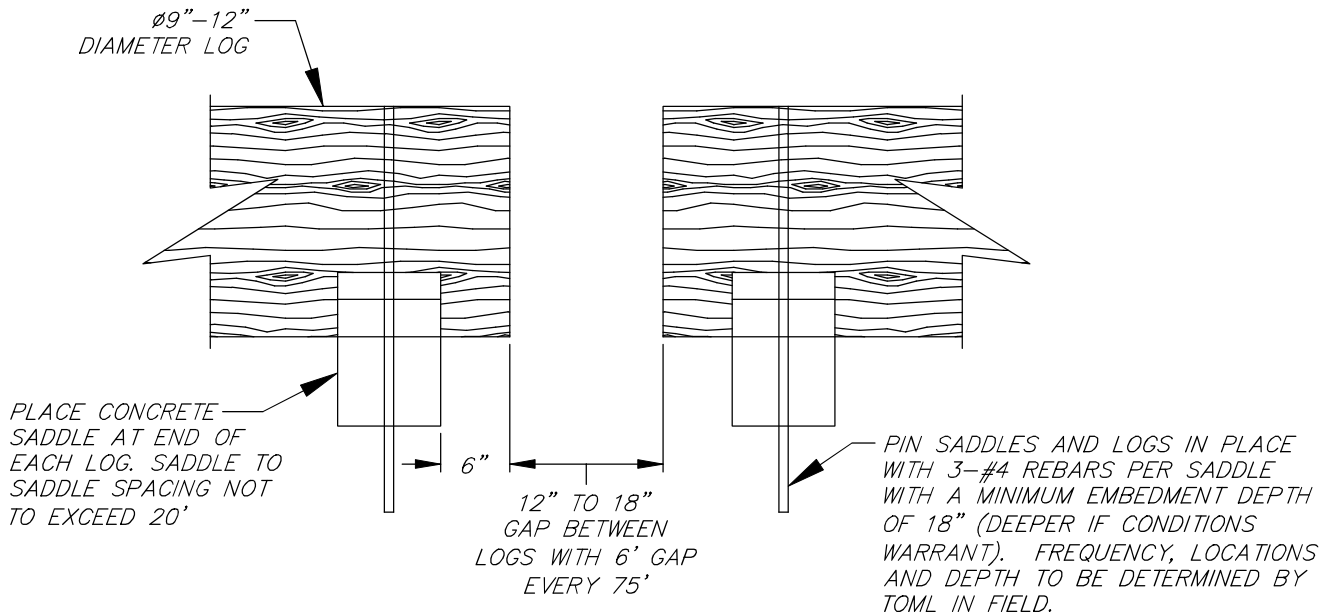
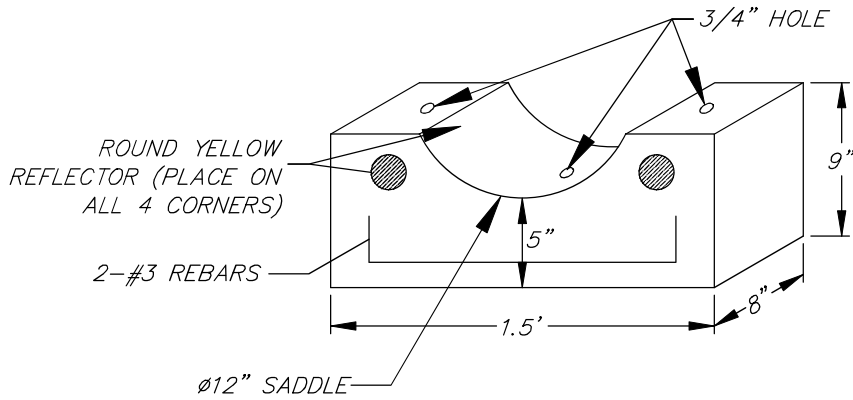
PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN

610-1

SHEET 2 OF 4



LOG CURB & SADDLE DETAILS - SMALL

N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**MULTI-USE PATHS
LOG CURB - SMALL**

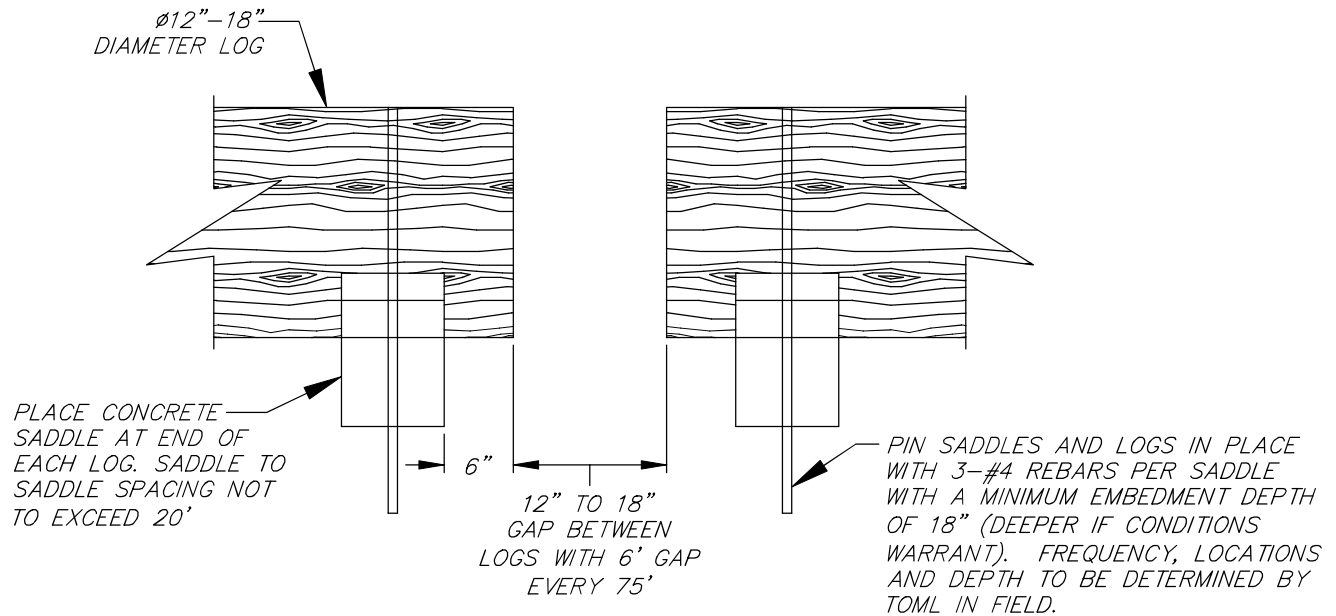
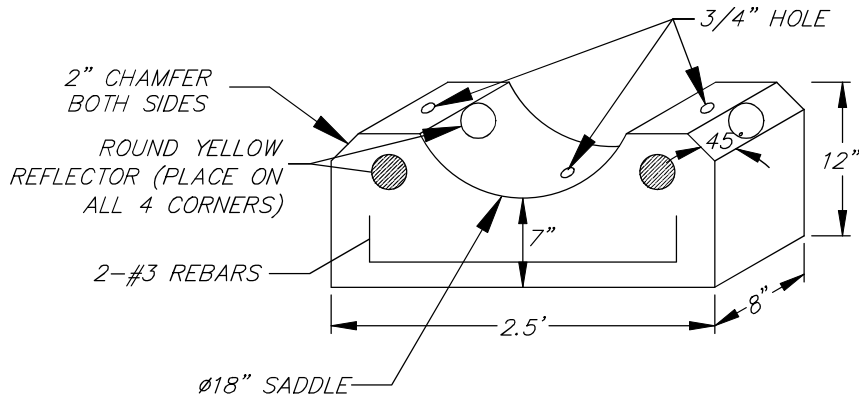
PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN

610-1

SHEET 3 OF 4



LOG CURB & SADDLE DETAILS - SMALL

N.T.S.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



**MULTI-USE PATHS
LOG CURB - LARGE**

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: May 7, 2014

STANDARD PLAN

610-1

SHEET 4 OF 4

Multi-Use Path Guardrails

On the following pages are proposed updates for the “Multi-Use Path Guardrails” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



Multi Use Path Guardrails

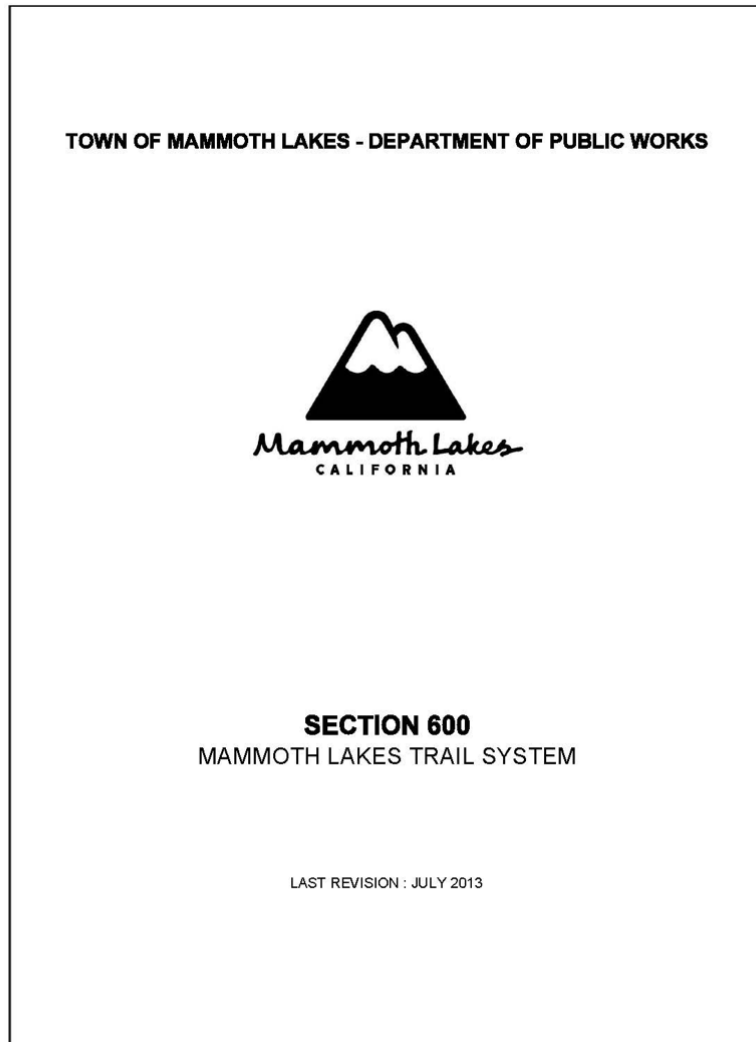
RECOMMENDATIONS

- No recommendations for Multi Use Paths Guardrails as of June 30, 2024

Soft Surface Trails

“Soft Surface Trails” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



SOFT SURFACE TRAILS

IF THE TOWN OF MAMMOTH LAKES CHOOSES TO ADOPT EXISTING U.S. FOREST SERVICE STANDARDS, THE FOLLOWING REFERENCE DOCUMENTS MAY BE RELEVANT:

1. U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE, "TRAIL CONSTRUCTION AND MAINTENANCE NOTEBOOK". (2007)
2. U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE, "STANDARD SPECIFICATION FOR CONSTRUCTION AND MAINTENANCE OF TRAILS". (1996)
3. U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE, "TRAIL ACCESSIBILITY GUIDELINES". (2006)

SOFT SURFACE SIGNAGE AND WAYFINDING

IF THE TOWN OF MAMMOTH LAKES CHOOSES TO DEVELOP AND ADOPT SUCH STANDARDS, THE FOLLOWING REFERENCE DOCUMENTS MAY BE RELEVANT:

1. U.S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE, "SIGN AND POSTER GUIDELINES FOR THE FOREST SERVICE, EM 7100-15". (DECEMBER 2005)

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



SOFT SURFACE TRAILS

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

611-1

SHEET 1 OF 1

Soft Surface Trails

On the following pages are proposed updates for the “Soft Surface Trails” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.

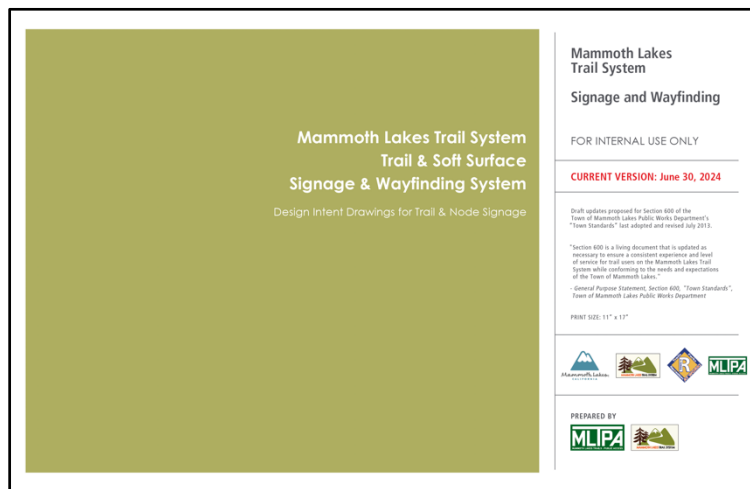


Soft Surface Trails

Specifications for “Soft Surface Trails” for use on the Signage and Wayfinding Program of the Mammoth Lakes Trail System are consistent with the “Sign and Poster Guidelines for the US Forest Service” and are available through the most current version of Design Intent documents maintained by the Town’s Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

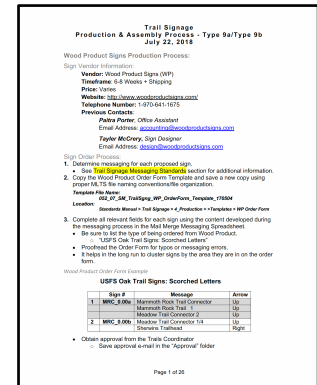
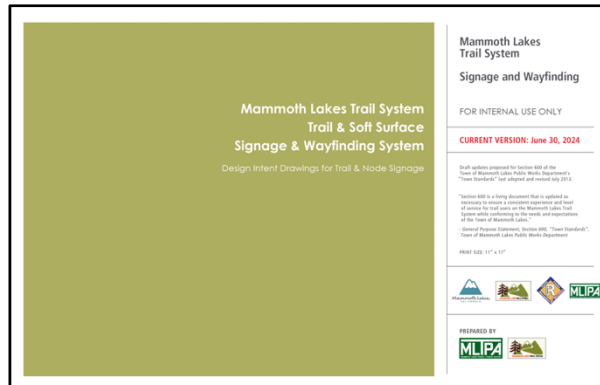
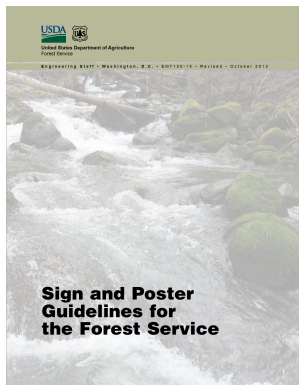
Soft Surface Design Intent

- Please see the current version of the Mammoth Lakes Trail System “Trail and Soft Surface” design intent document
 - Date of Current Version: **June 30, 2024**
 - File name of Current Version:
 - **115_06_DesignIntent_Trails_Soft Surface_240630_FINAL**



Soft Surface Trails

- Please search online for the “Sign and Poster Guidelines for the US Forest Services” and review PDF pages 1 - 29 of the current Mammoth Lakes Trail System “Trail and Soft Surface” design intent document. Also included is “Trail Signage Production & Assembly Process - Type 9a/Type 9b. These same pages from the design intent are included in this document on the pages that follow.





United States Department of Agriculture
Forest Service

Engineering Staff • Washington, D.C. • EM7100-15 • Revised • October 2013

Sign and Poster Guidelines for the Forest Service

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



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



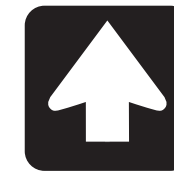
Winter Recreation



Fat Biking



Walking



Directional



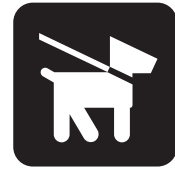
Bike Repair



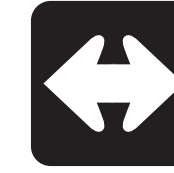
Cycling



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

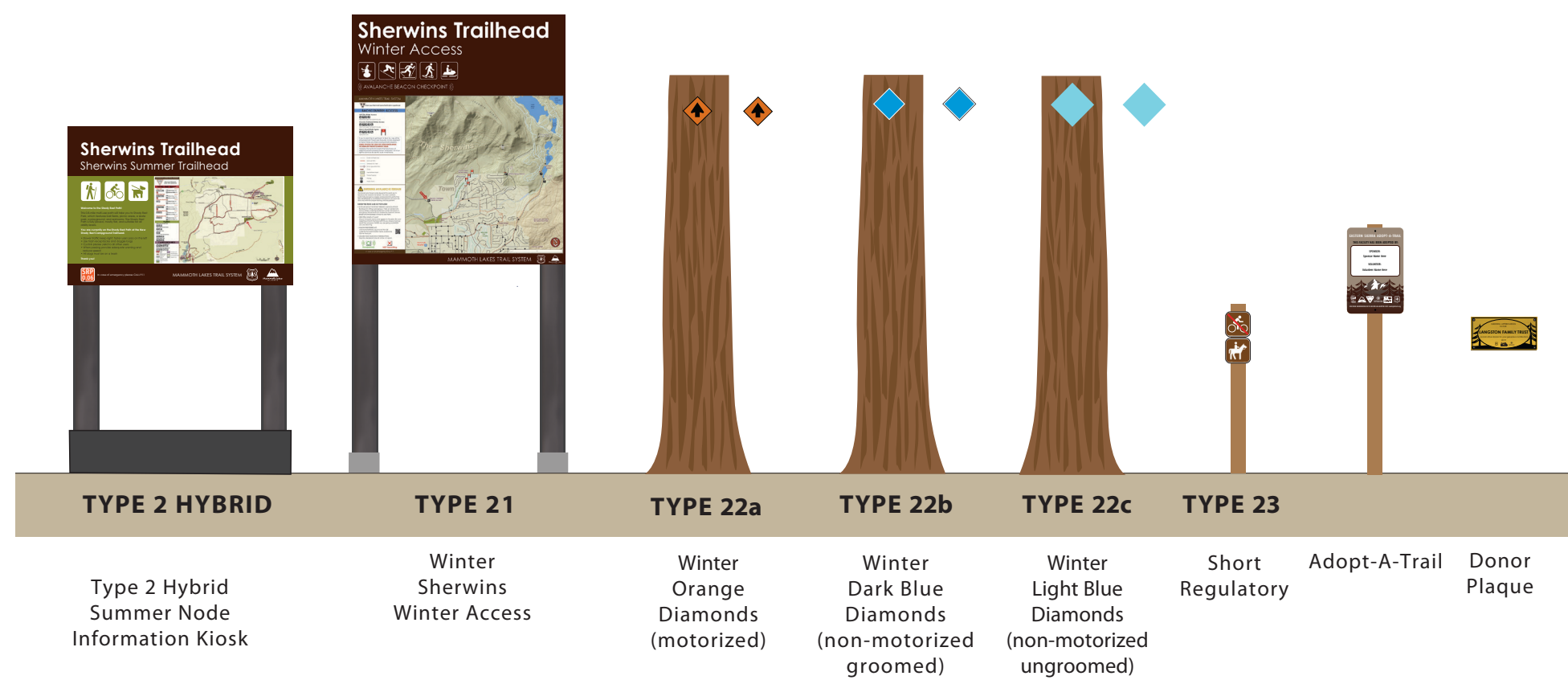
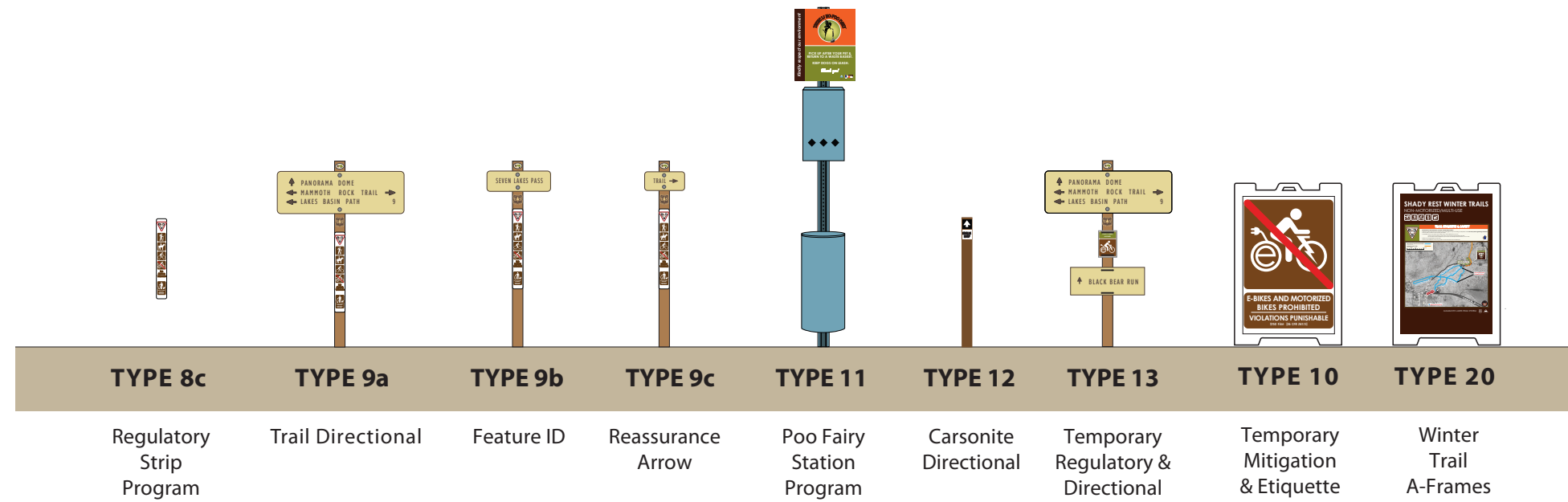
Scale

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.

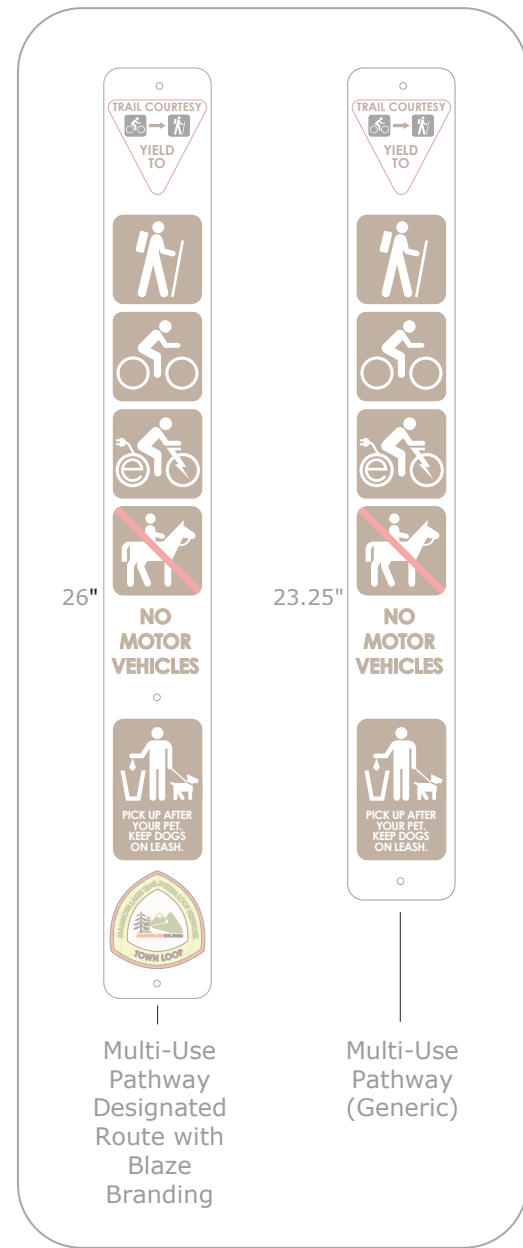


Date	Description
06.30.24	MLTPA Document

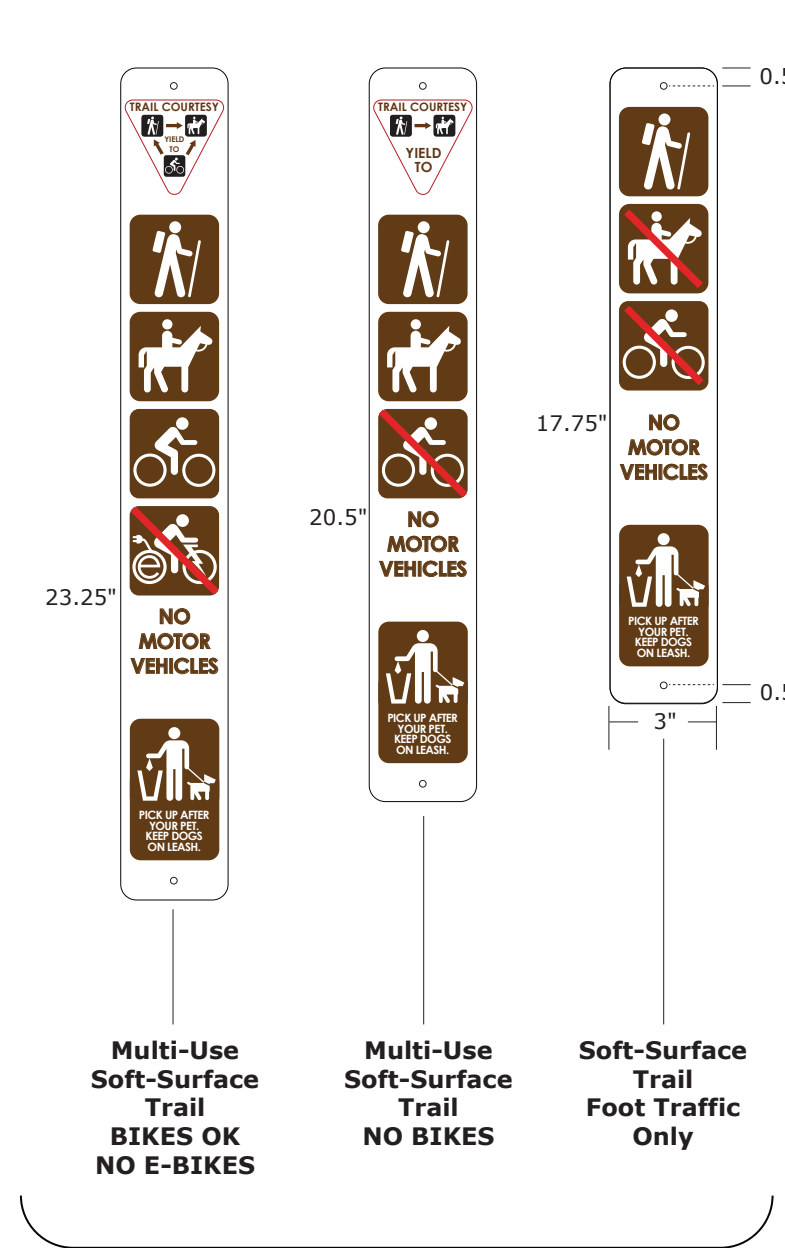
Prepared by



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

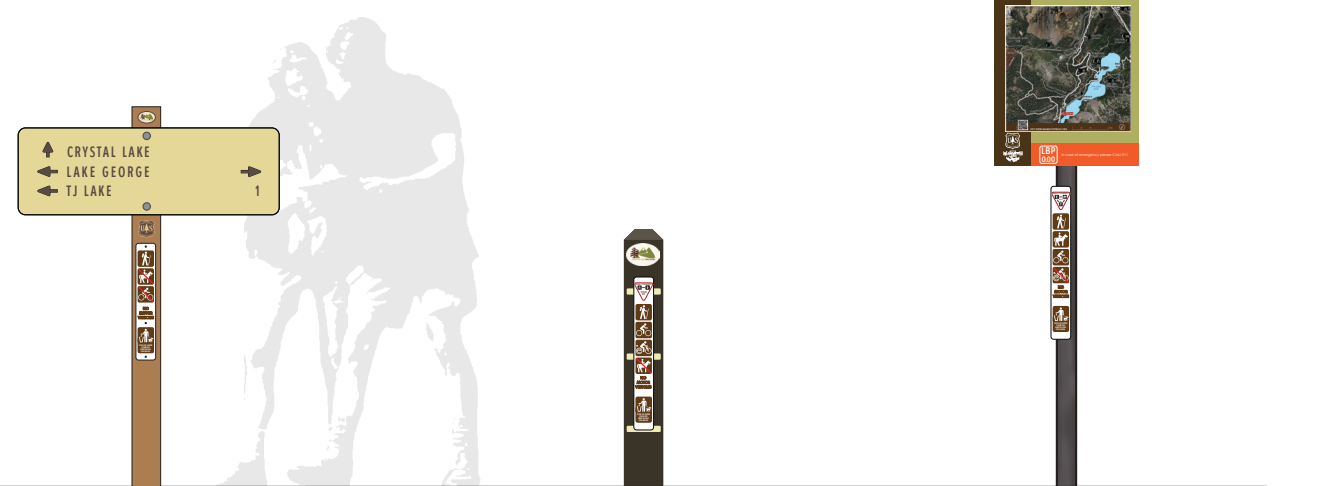
FINISH AND GRAPHICS
0.080" aluminum with print decals.
Hole diameter 0.1875" (3/16")

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

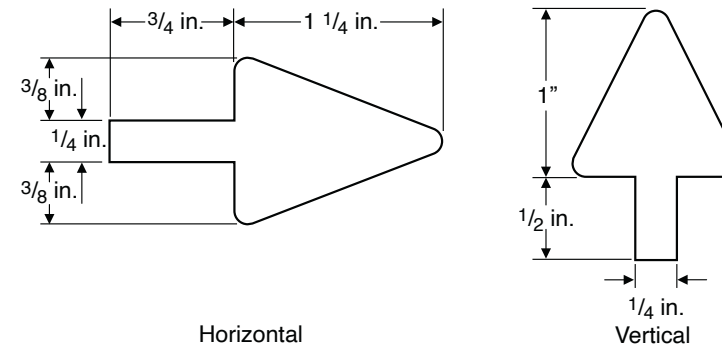
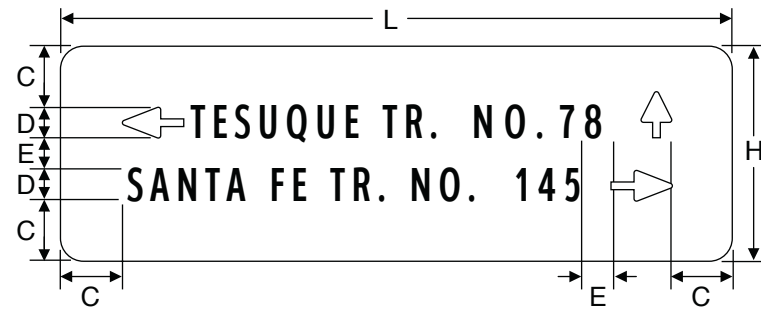
Prepared by



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

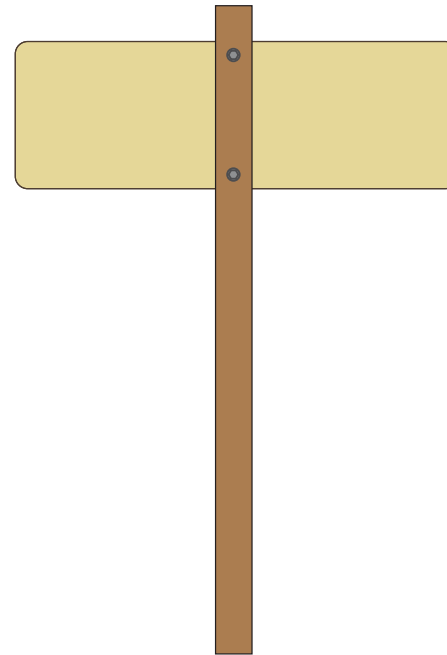
For sign guidelines, see chapter 5.
For panel construction, see chapter 14.

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



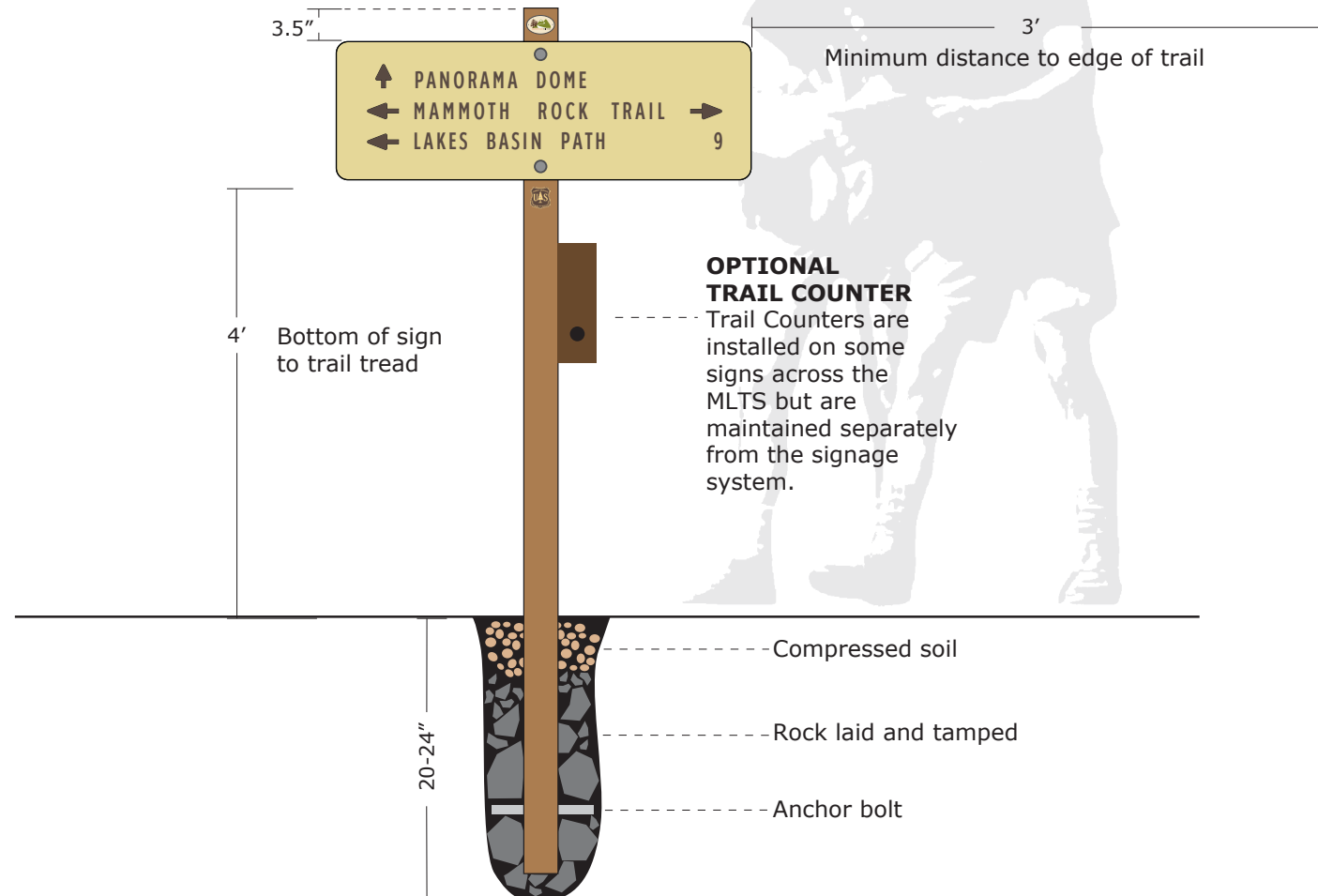
BACK



LEFT SIDE

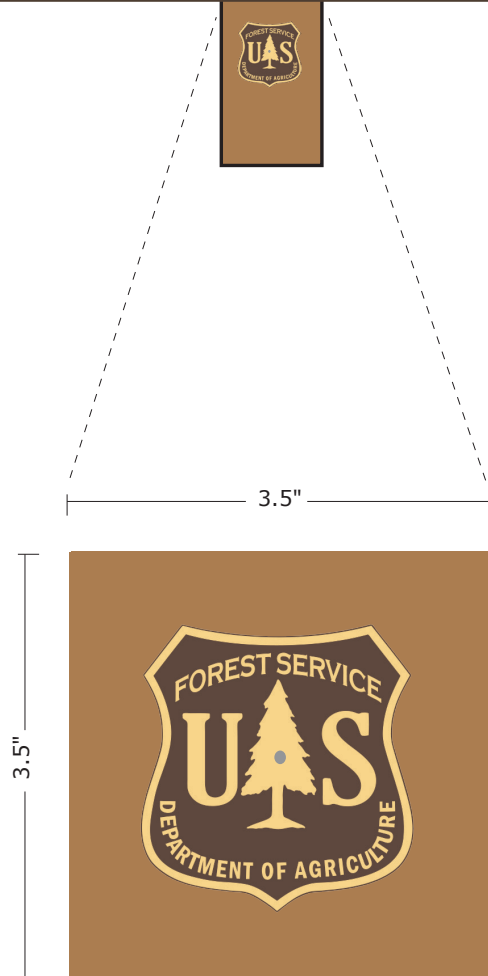
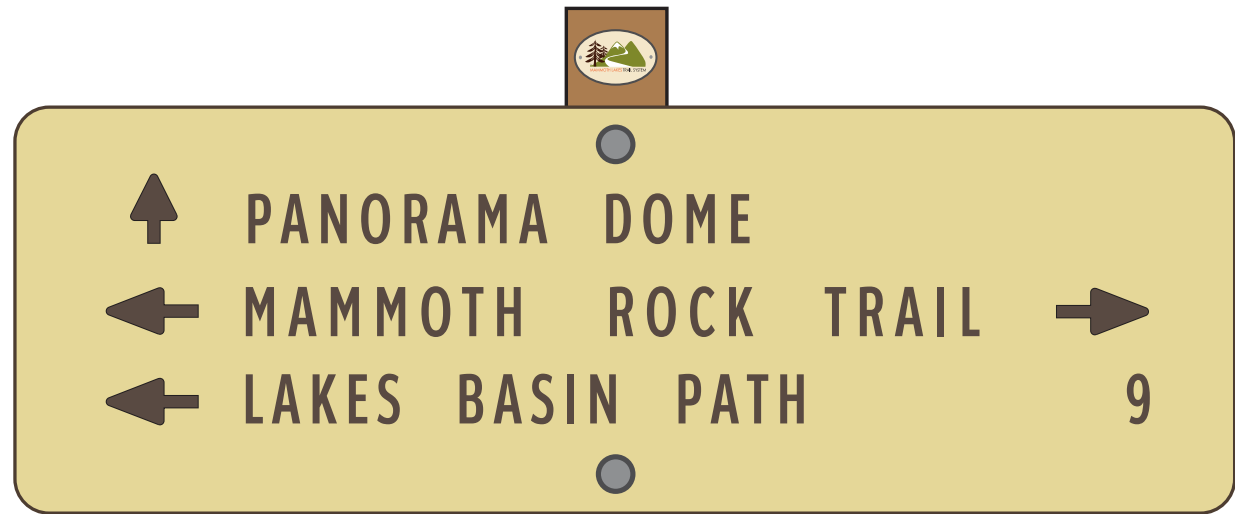


FRONT

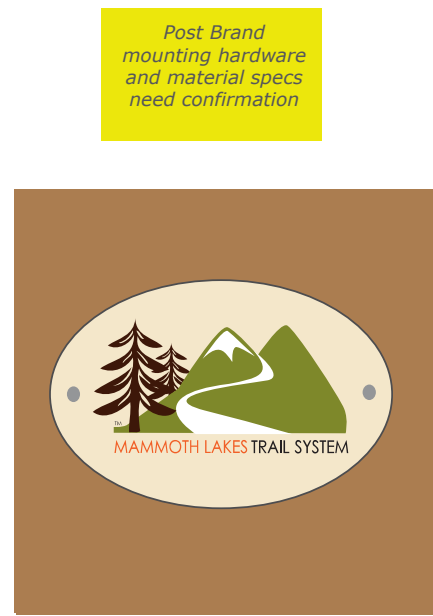


OPTIONAL TRAIL COUNTER
Trail Counters are installed on some signs across the MLTS but are maintained separately from the signage system.

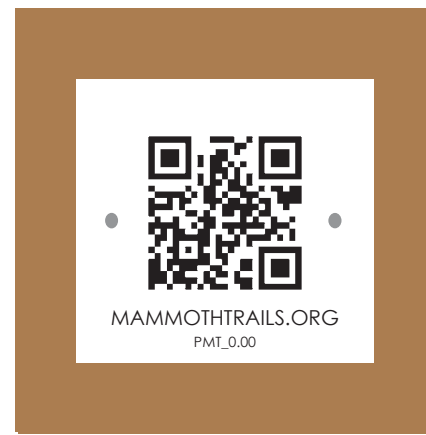
FRONT
QR CODE, USFS and MLTS logo on post



FRONT (LOWER)



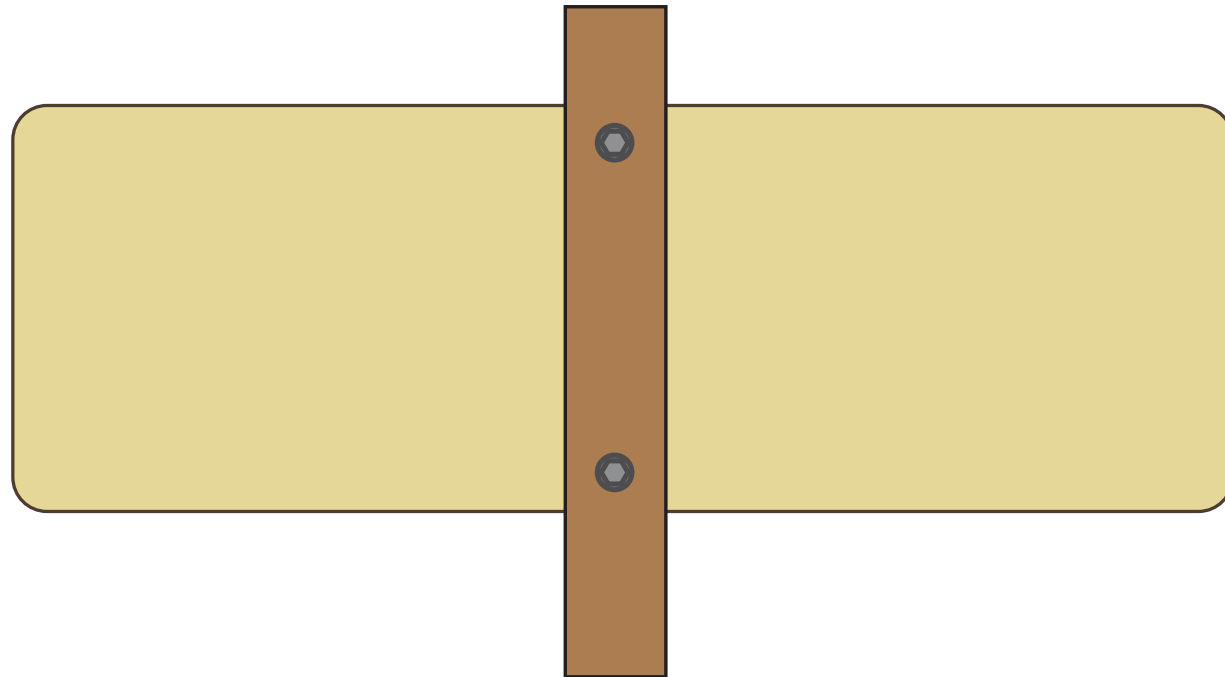
FRONT (UPPER)



LEFT

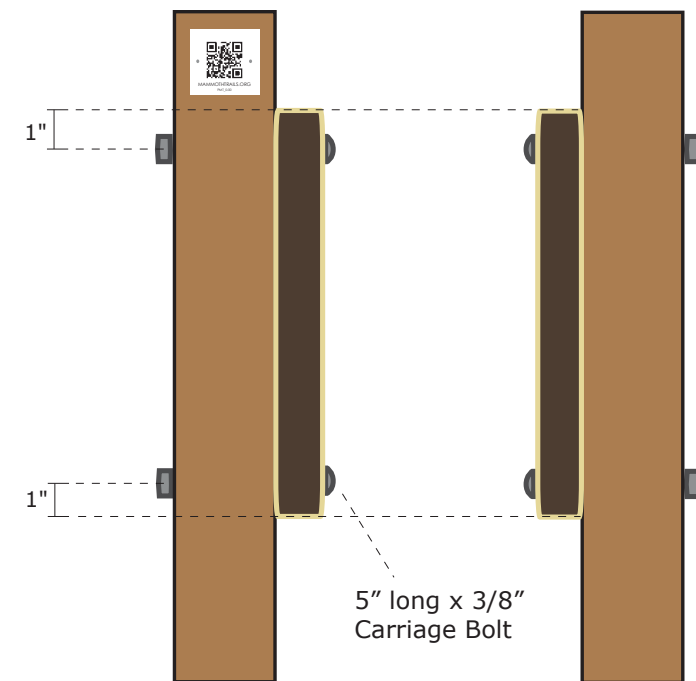
Post Brand mounting hardware and material specs need confirmation

BACK
Blank



LEFT
QR code

RIGHT
Blank



5" long x 3/8" Carriage Bolt

Sign mounting hardware needs confirmation

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.

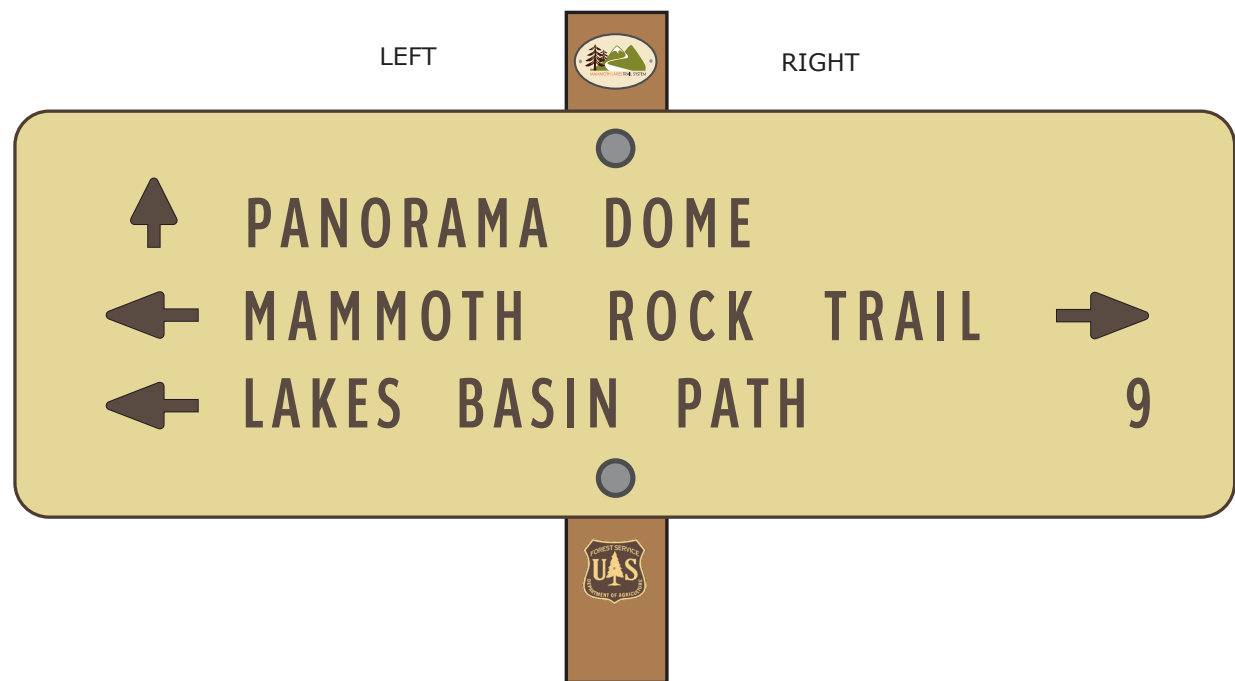
Date Description

06.30.24 MLTPA Document

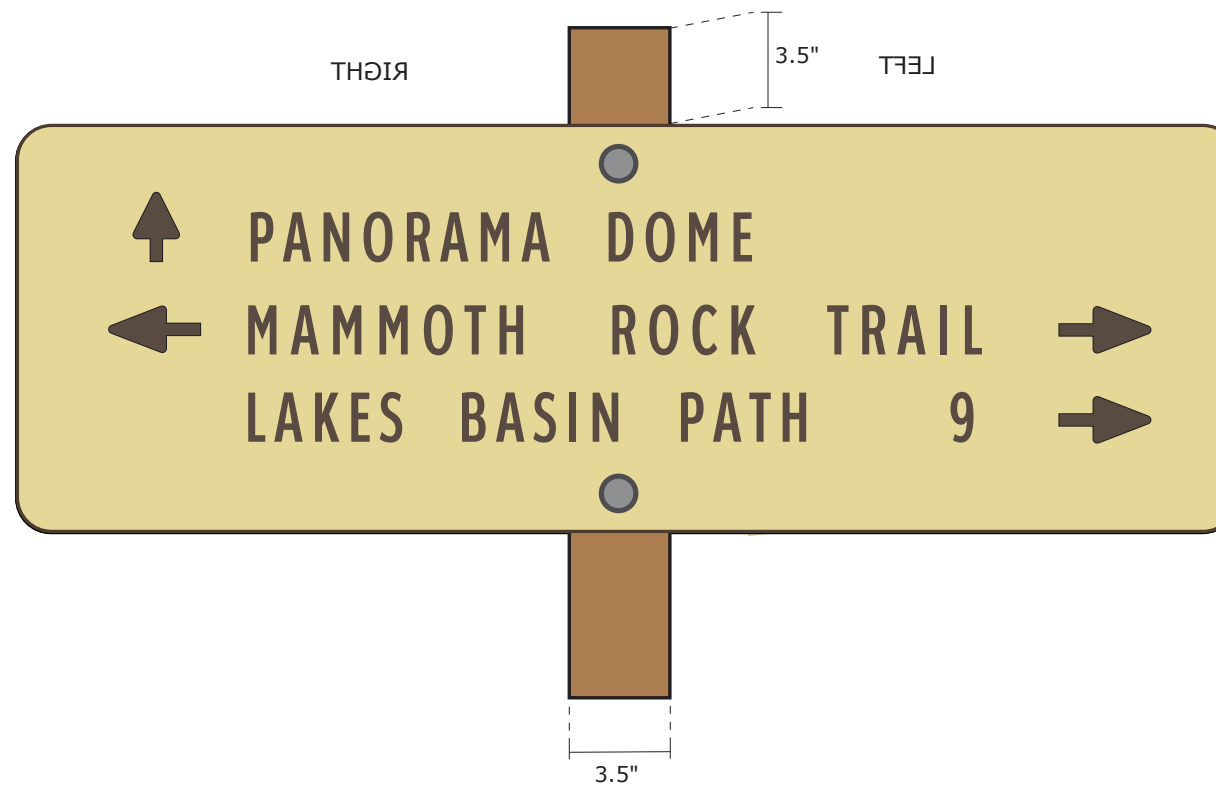
Prepared by



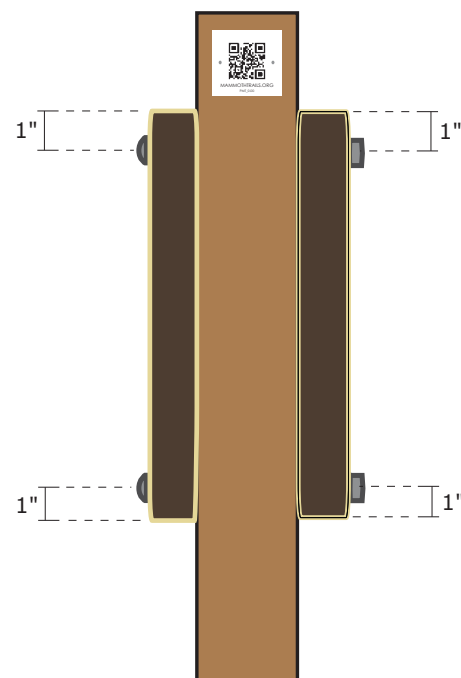
FRONT
QR CODE, USFS and MLTS logo on post



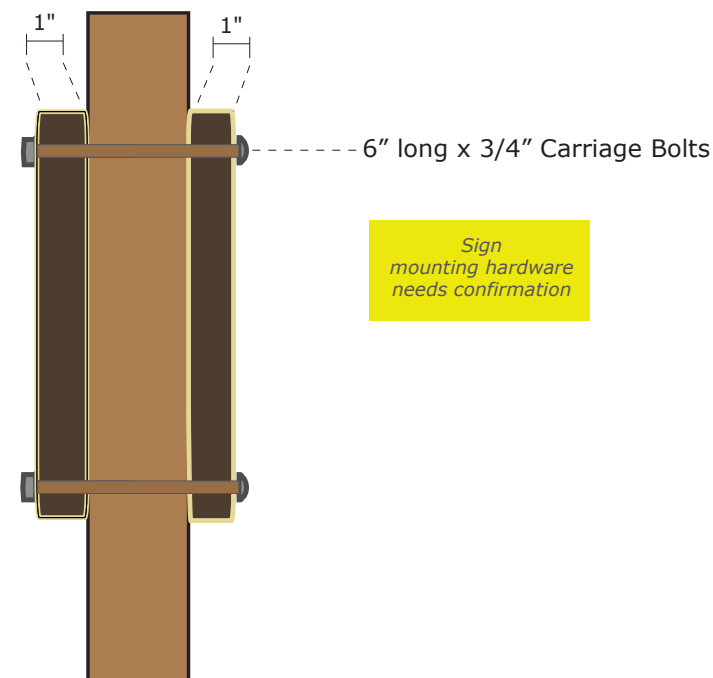
BACK



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

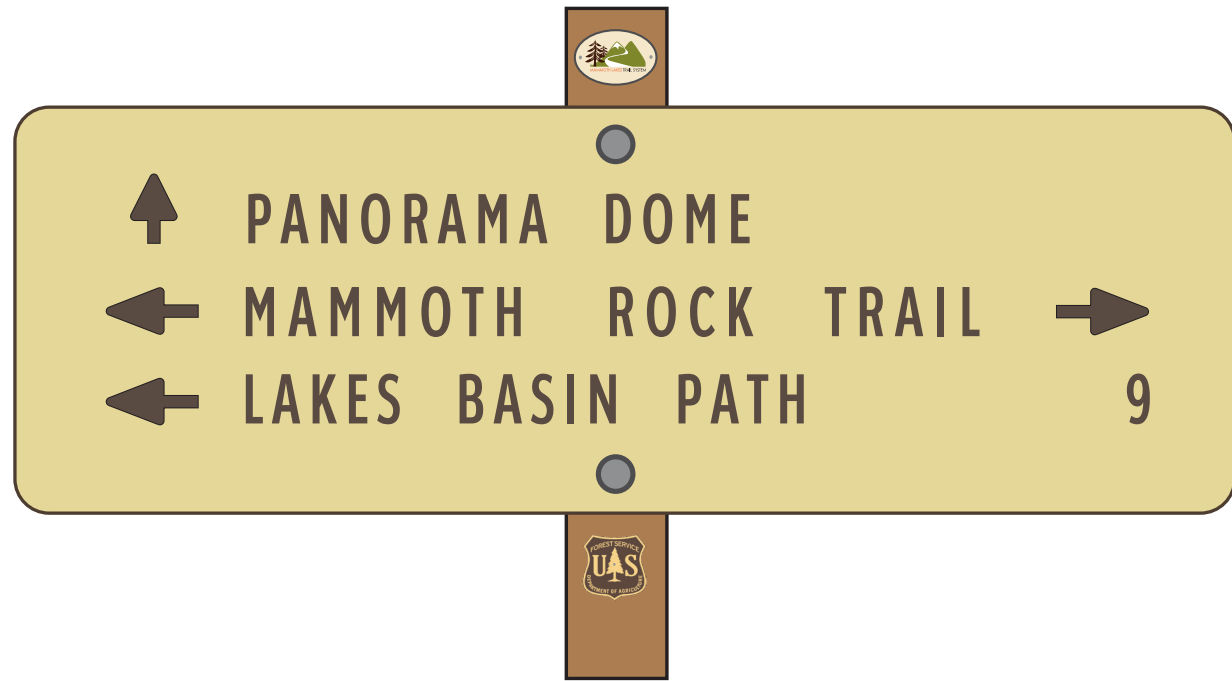
Date Description

06.30.24 MLTPA Document

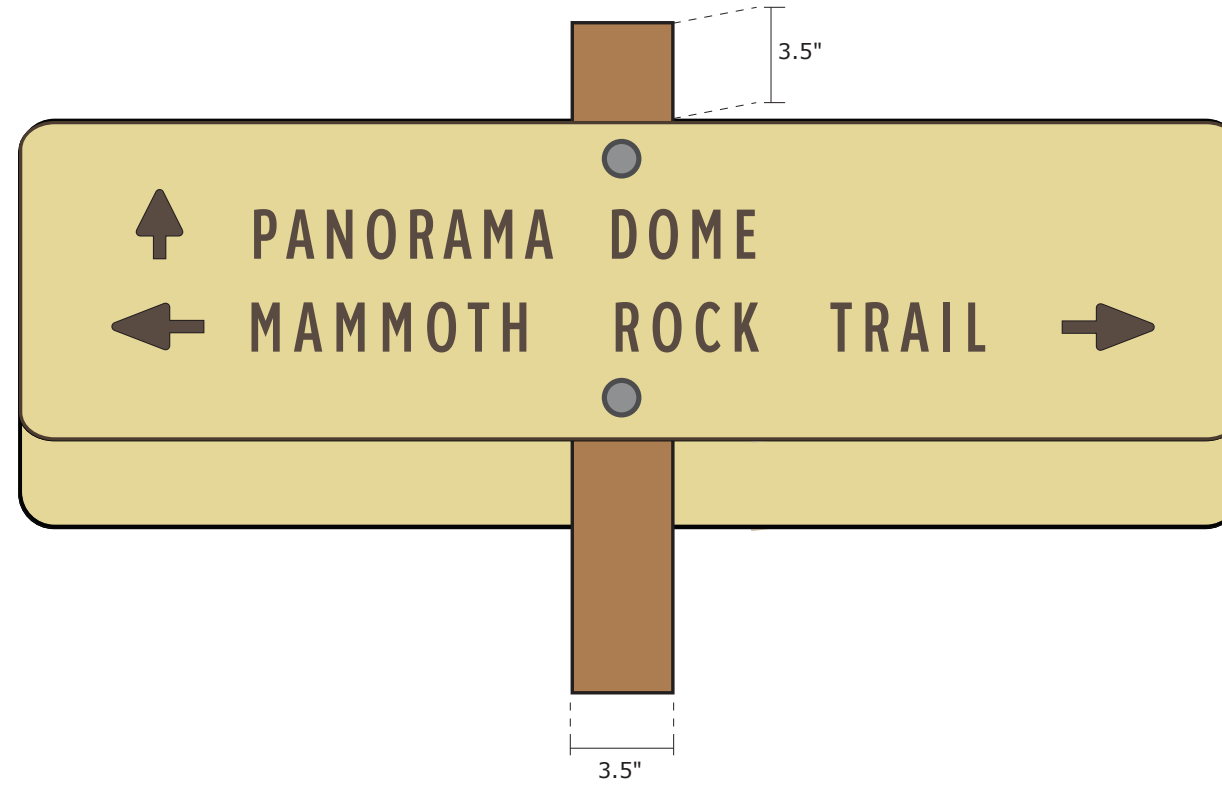
Prepared by



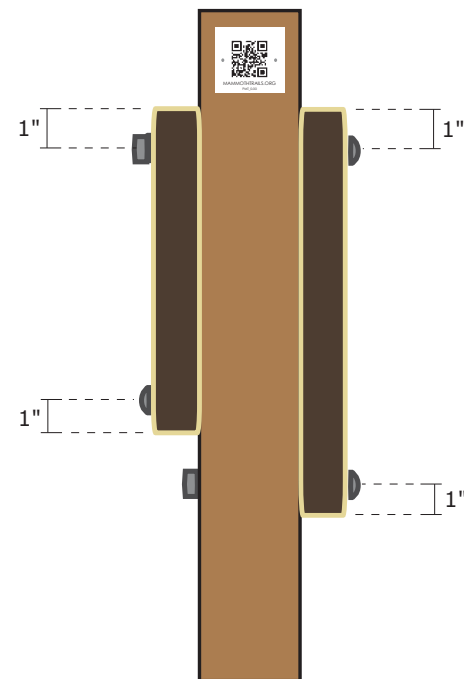
FRONT
QR CODE, USFS and MLTS logo on post



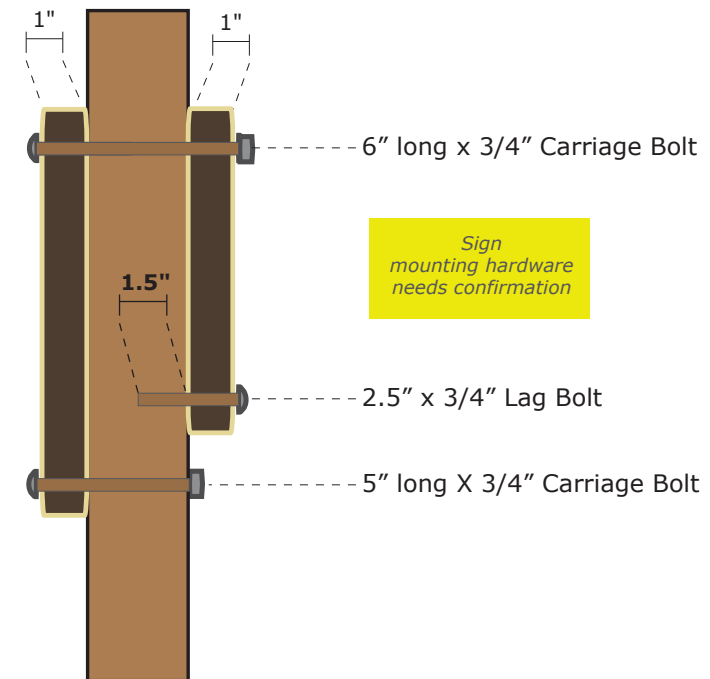
BACK



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

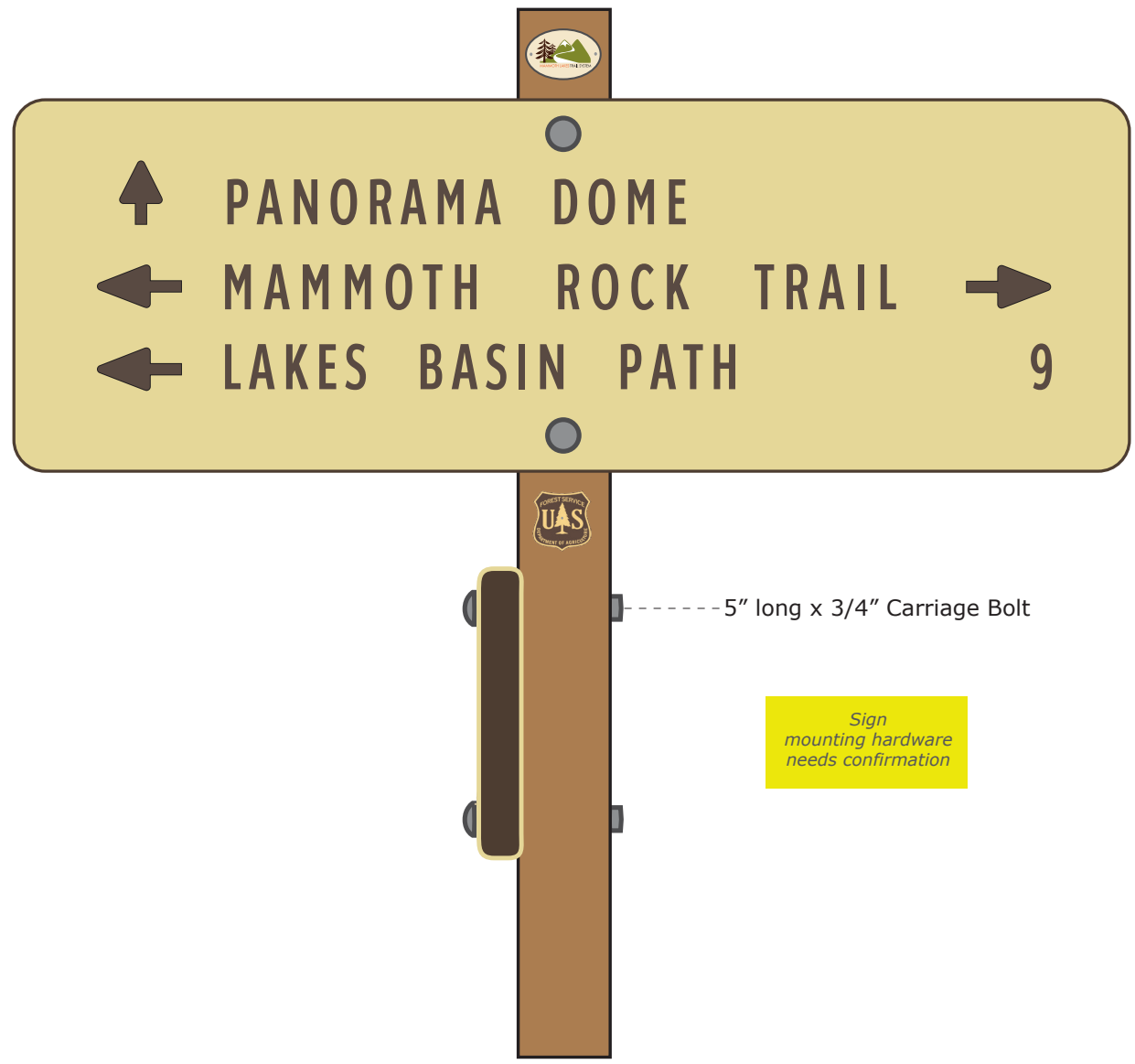
Trail Directional
90 Degree Offset
(detail)

Scale

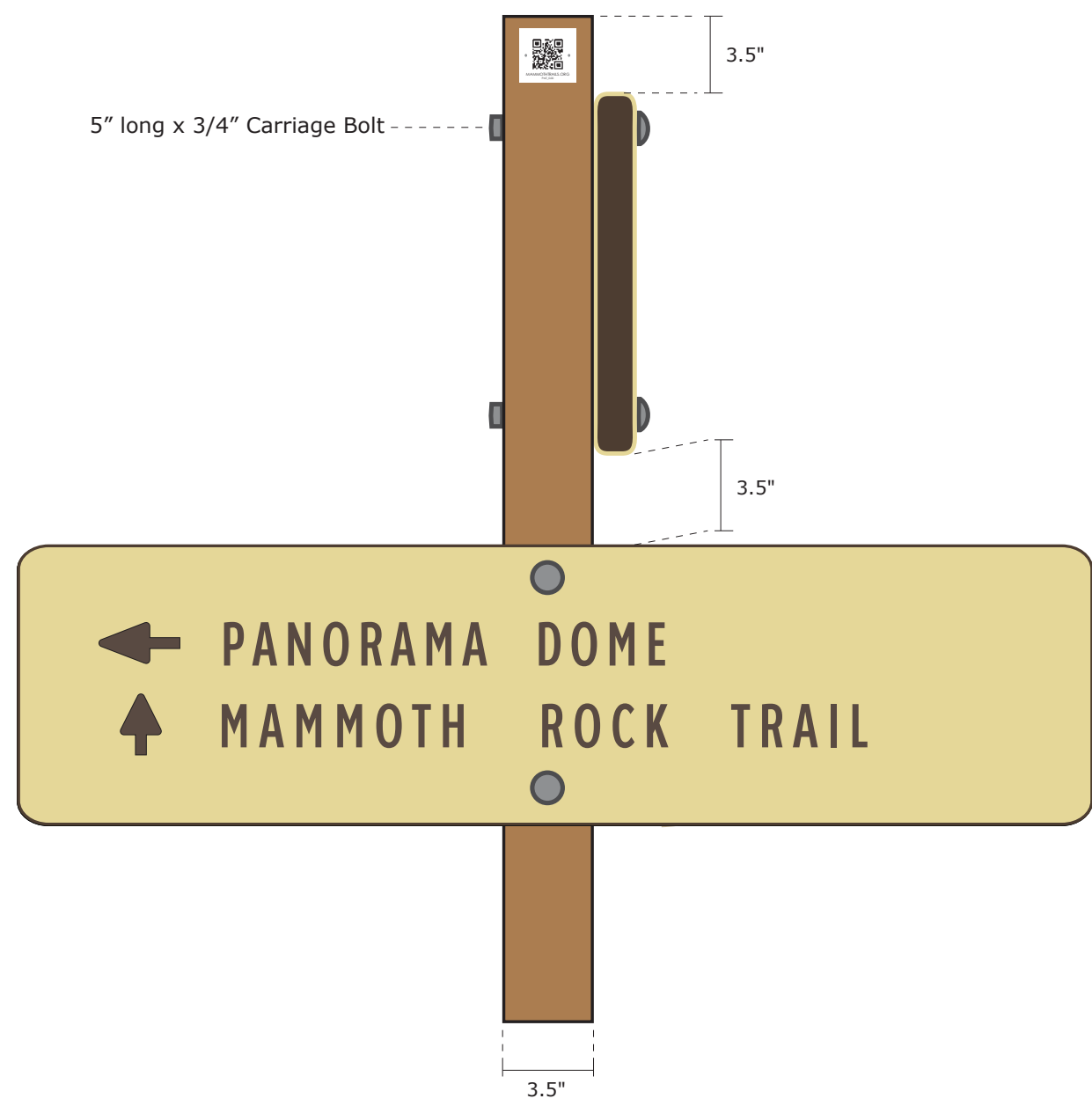
n.t.s.
For visual reference only

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.
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

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).

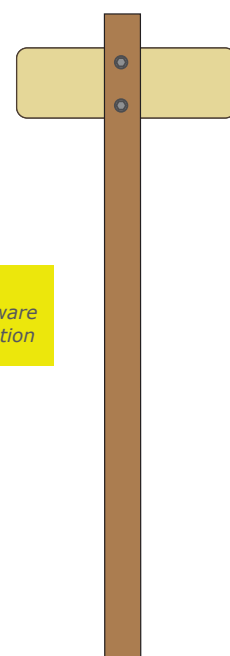
RIGHT SIDE



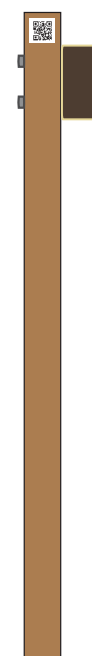
5" long x 3/4" Carriage Bolt

Sign mounting hardware needs confirmation

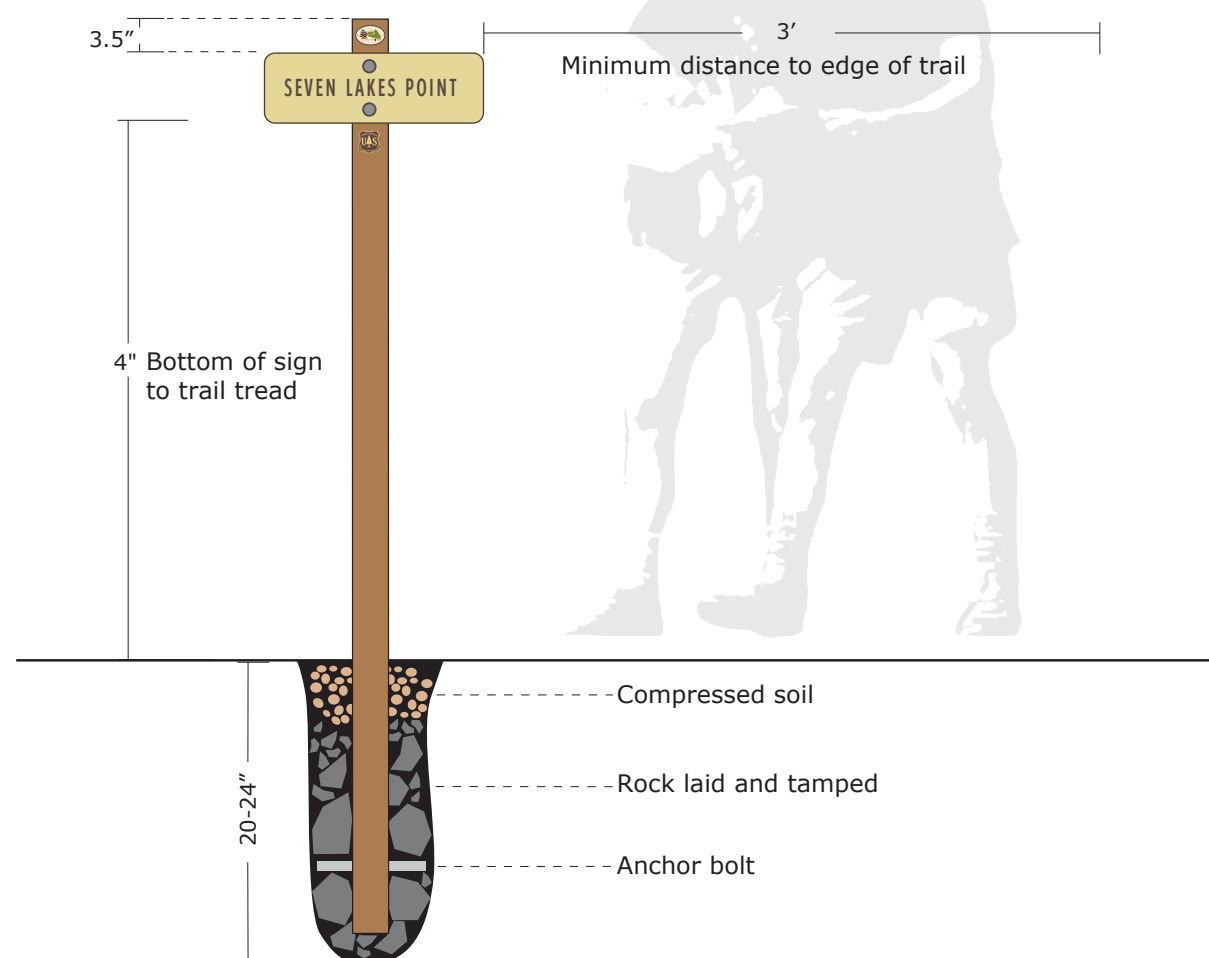
BACK



LEFT SIDE



FRONT



Minimum distance to edge of trail

3.5"

3'

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).

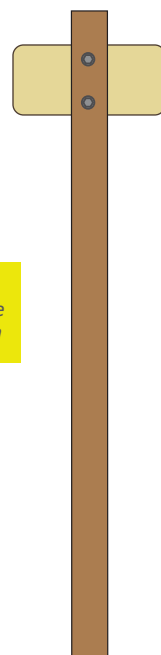
RIGHT SIDE



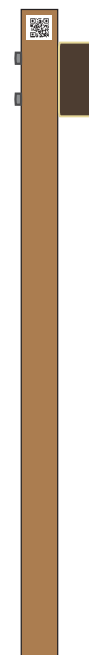
5" long x 3/4" Carriage Bolt

Sign mounting hardware needs confirmation

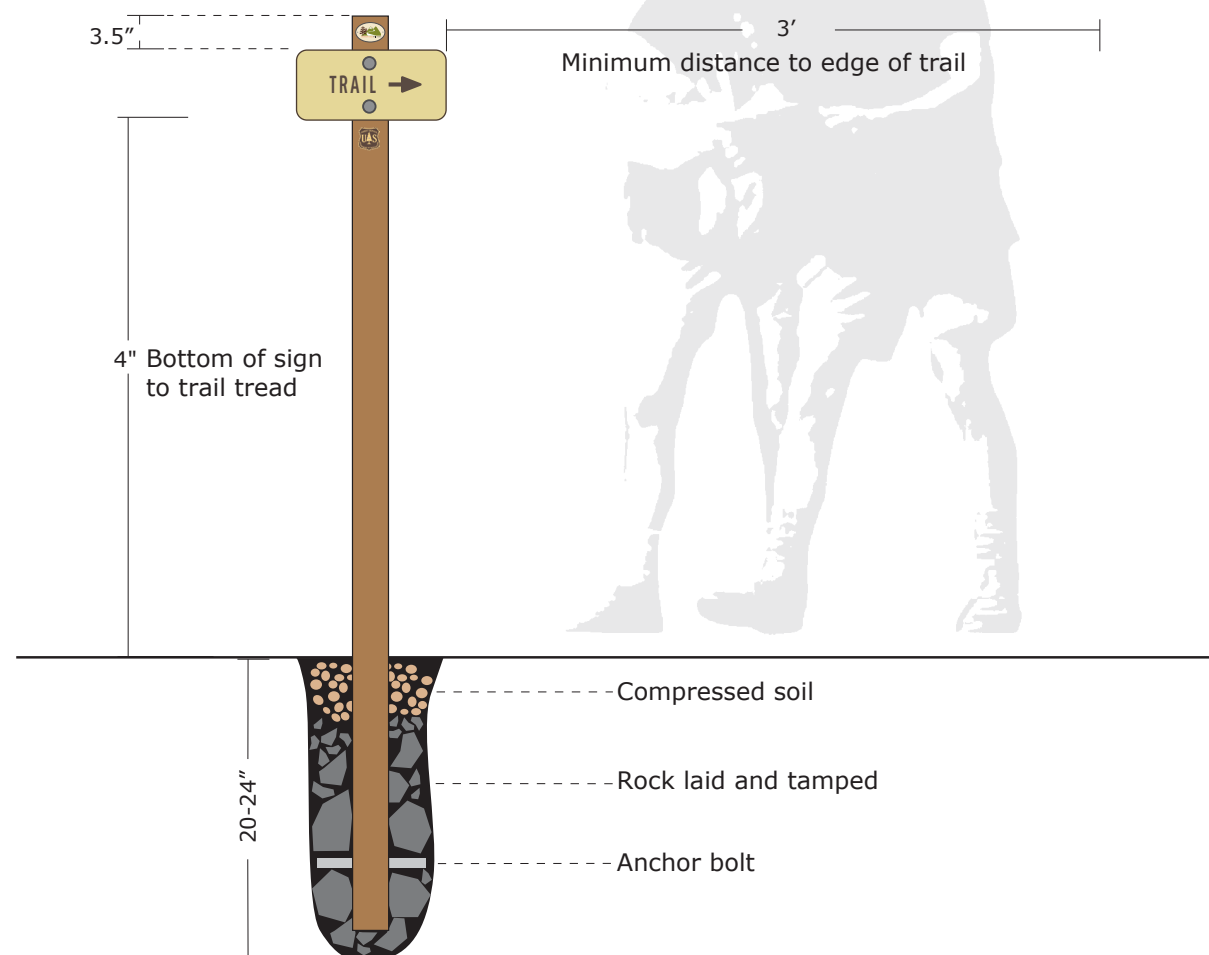
BACK



LEFT SIDE



FRONT



3.5"

Minimum distance to edge of trail

3'

4" Bottom of sign to trail tread

20-24"

Compressed soil

Rock laid and tamped

Anchor bolt

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

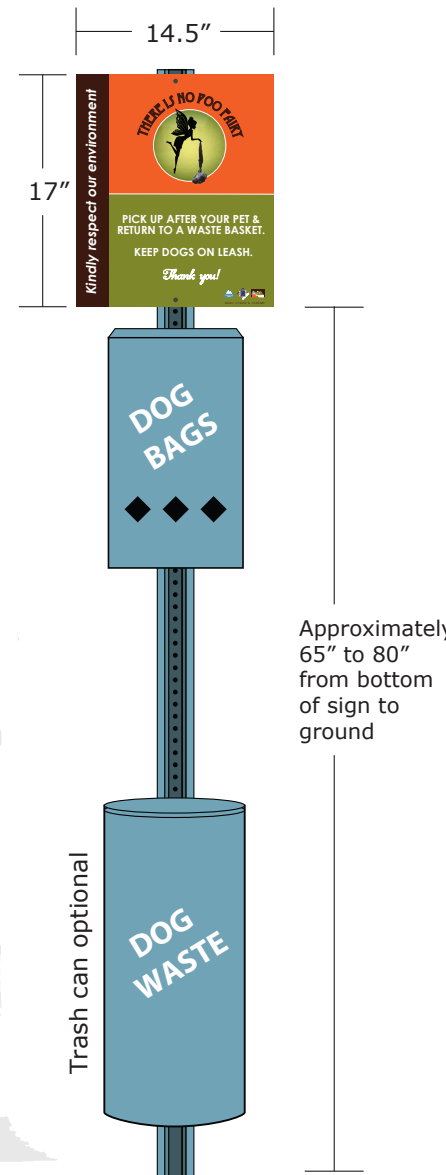
02

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.

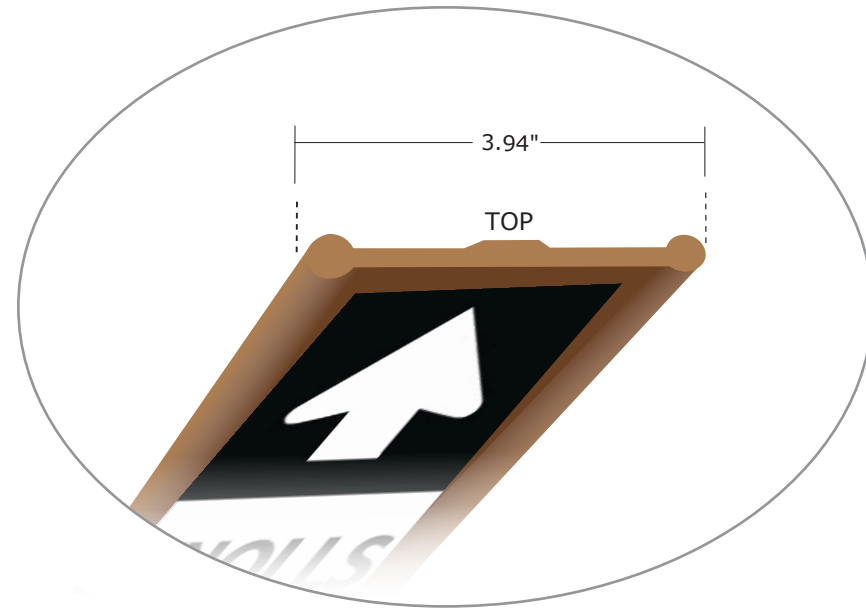
SIGN HARWARE
Tamper Resistant Screw: #8-32 Thread Size, 1/2 in Lg, Steel.

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.

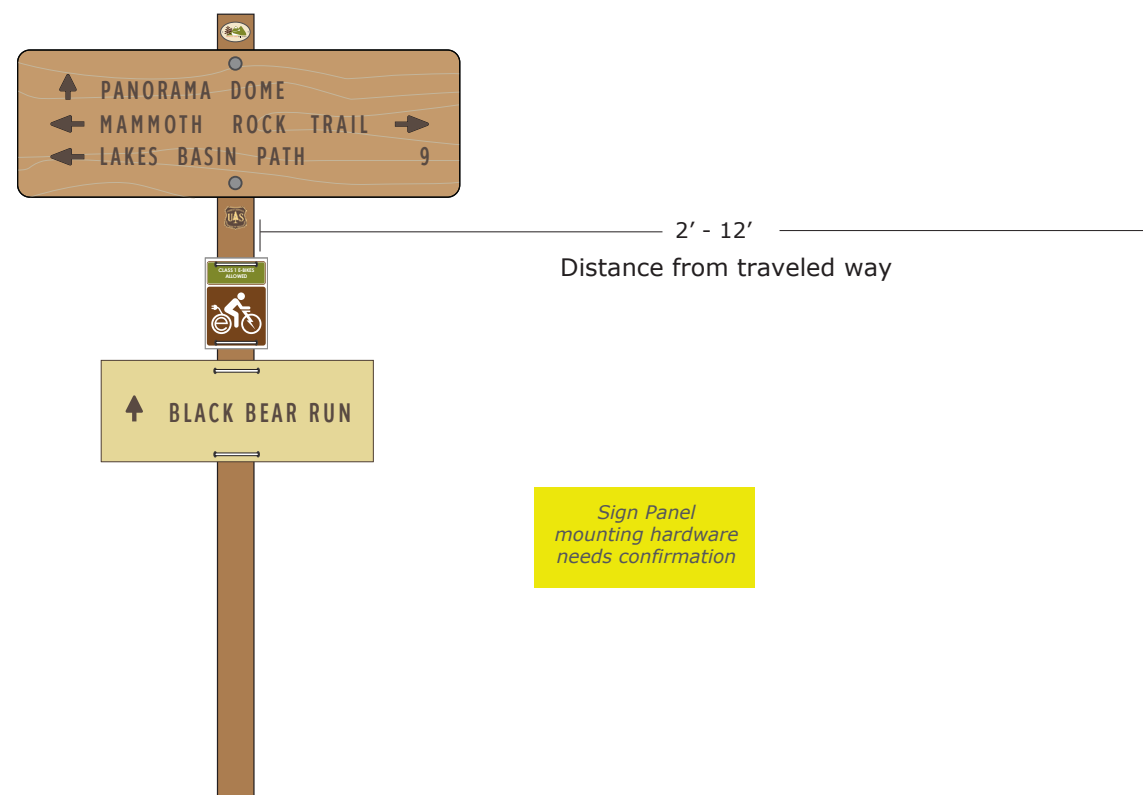
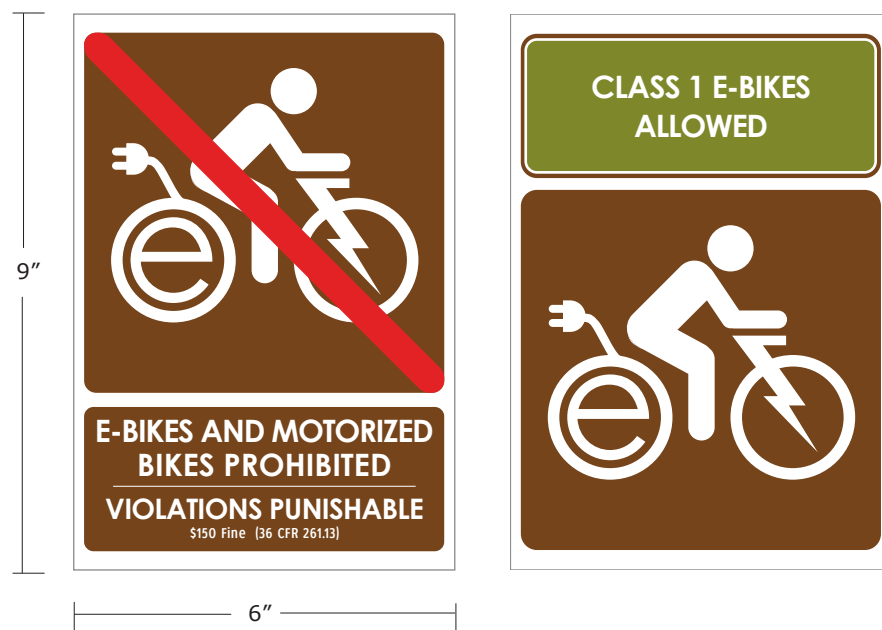
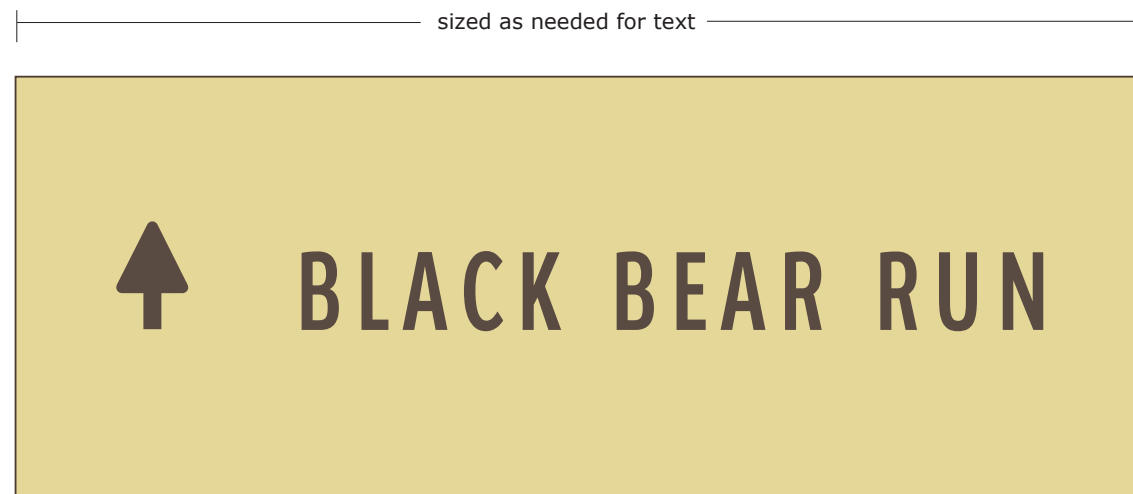
SIGN PURPOSE

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.

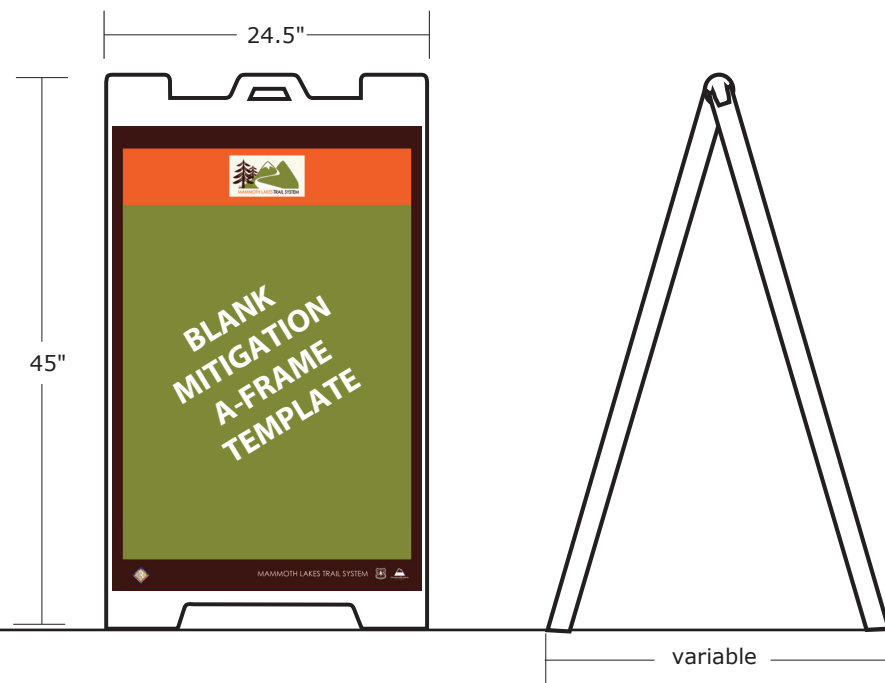
A-FRAME FINISH AND GRAPHICS

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

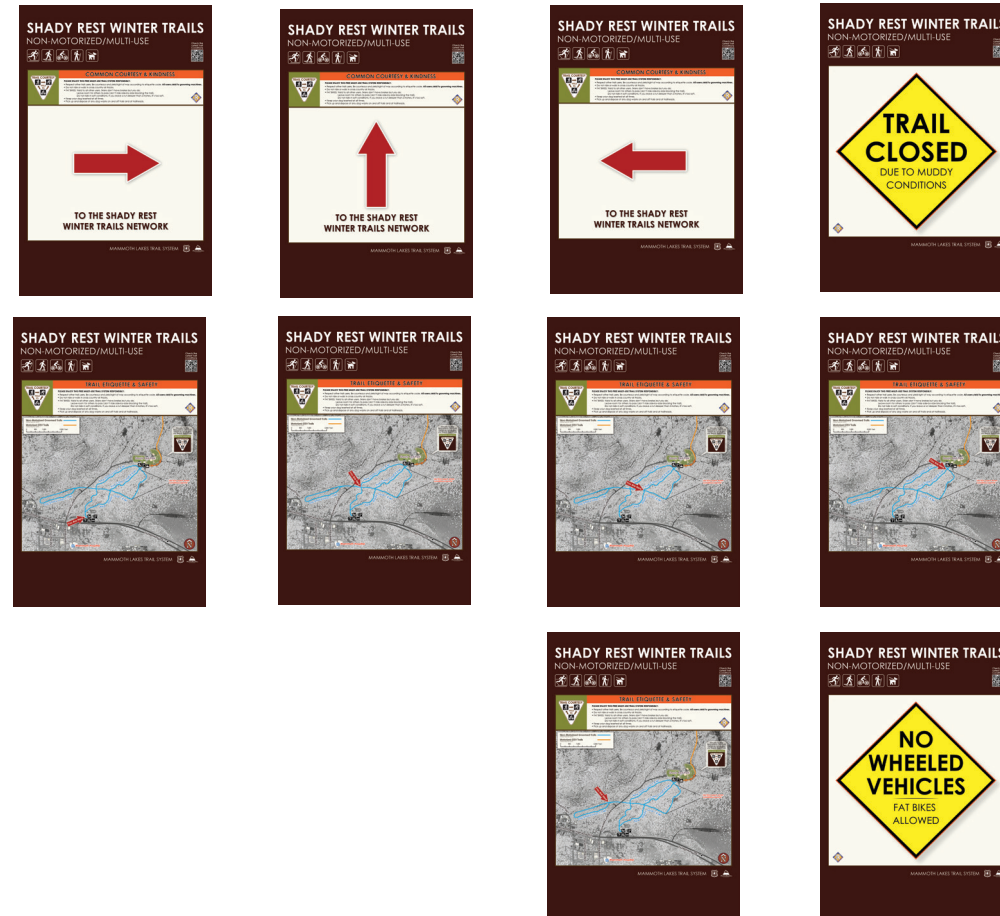


**TEMPORARY WINTER TRAILS
COROPLAST PANEL**



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



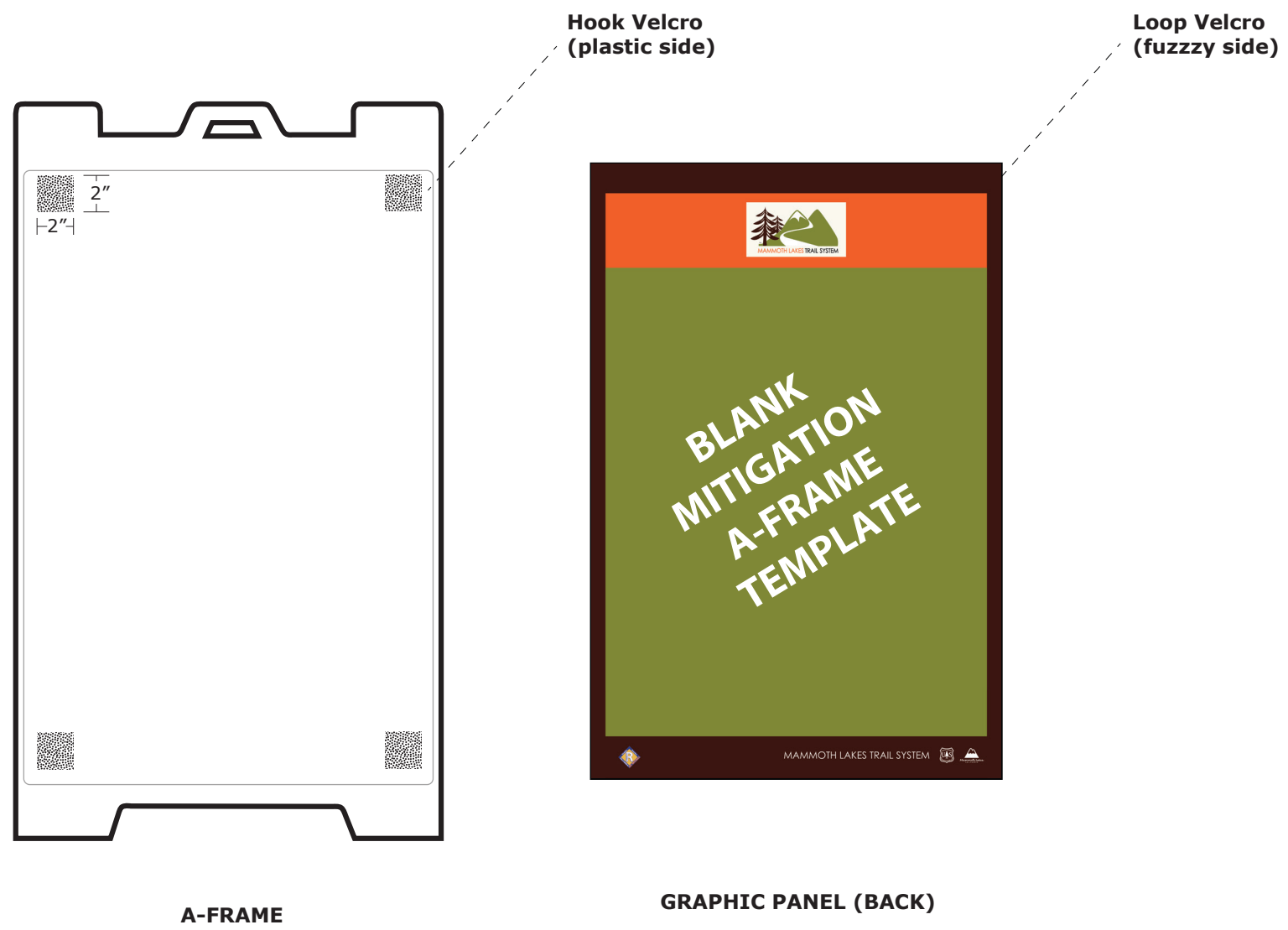
TYPE 10 & 20

Temporary Mitigation & Etiquette, and Winter Trail A-frames

Scale

n.t.s.
For visual reference only

Notes



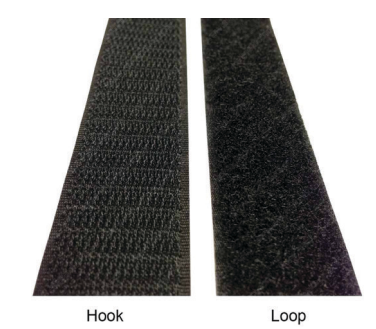
GRAPHIC PANEL INSTALLATION

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



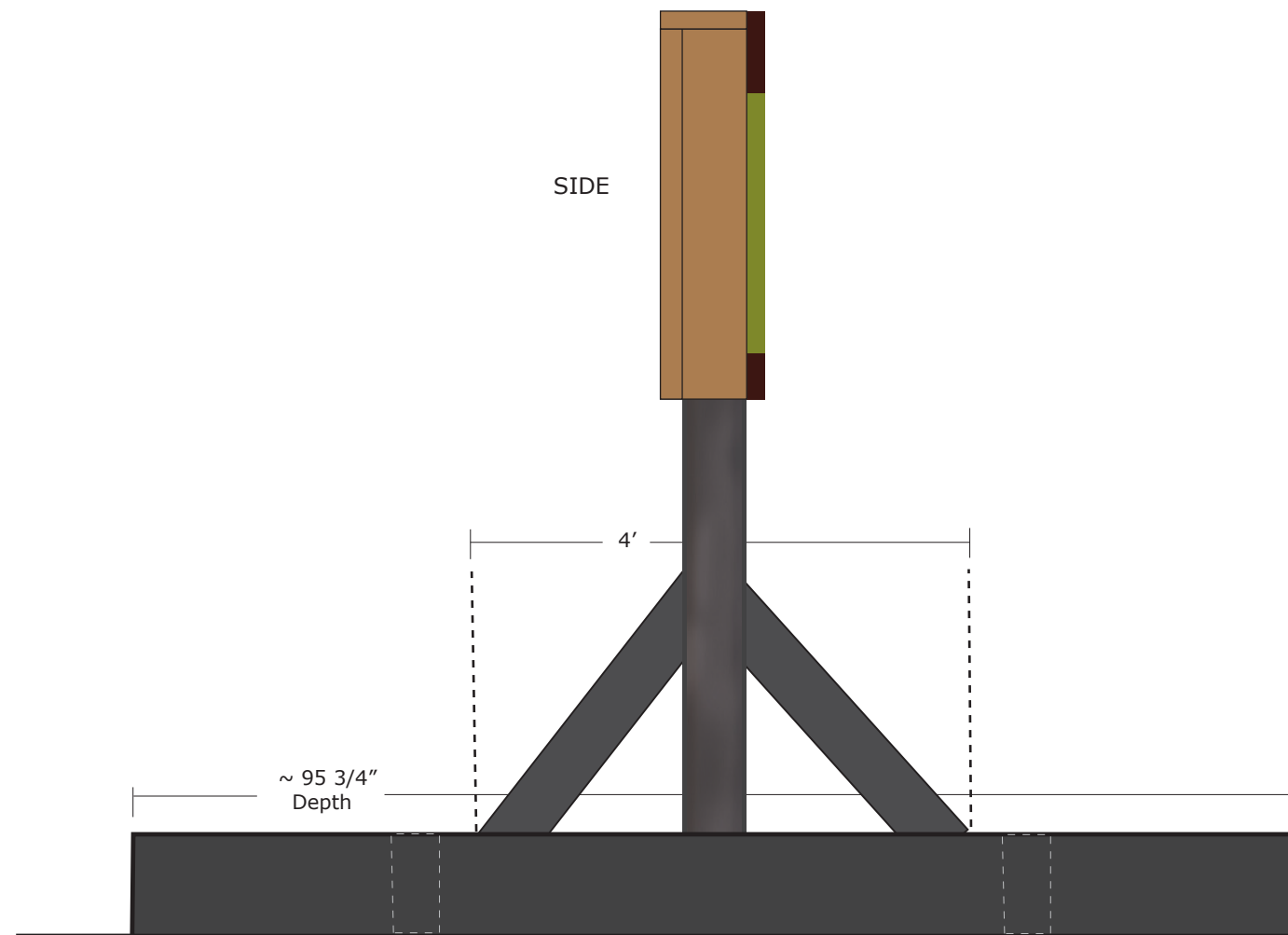


Sign Panel mounting hardware needs confirmation

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.

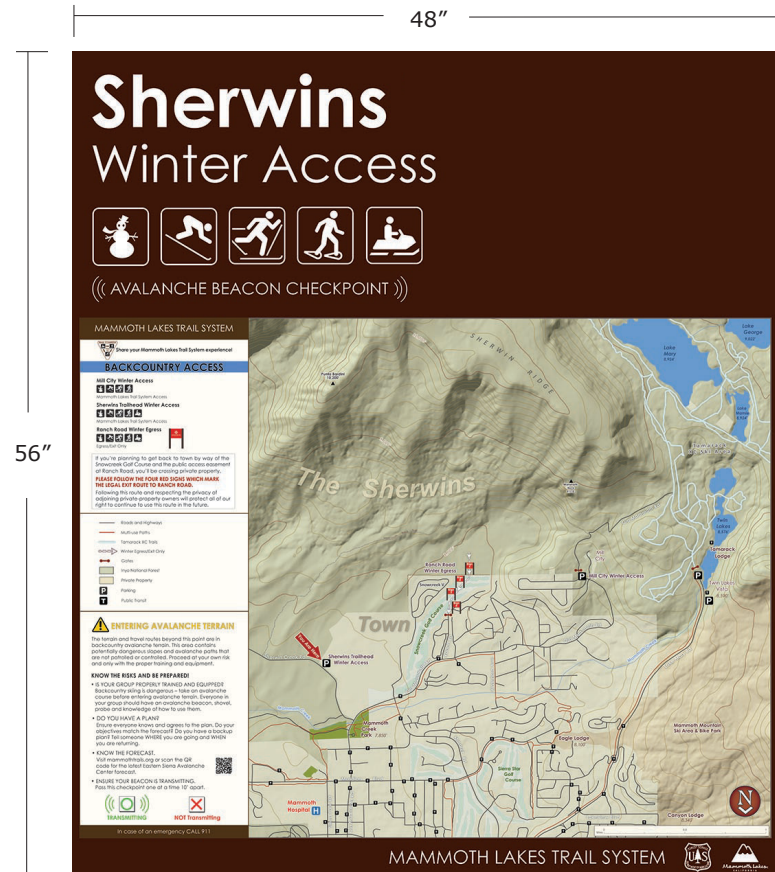
INSTALLATION
Metal sign panel is mounted to a custom wooden box constructed with basic lumber which slides down over the sled frame. Exact construction specifications may be subject to change as dictated by on-the-ground conditions.

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

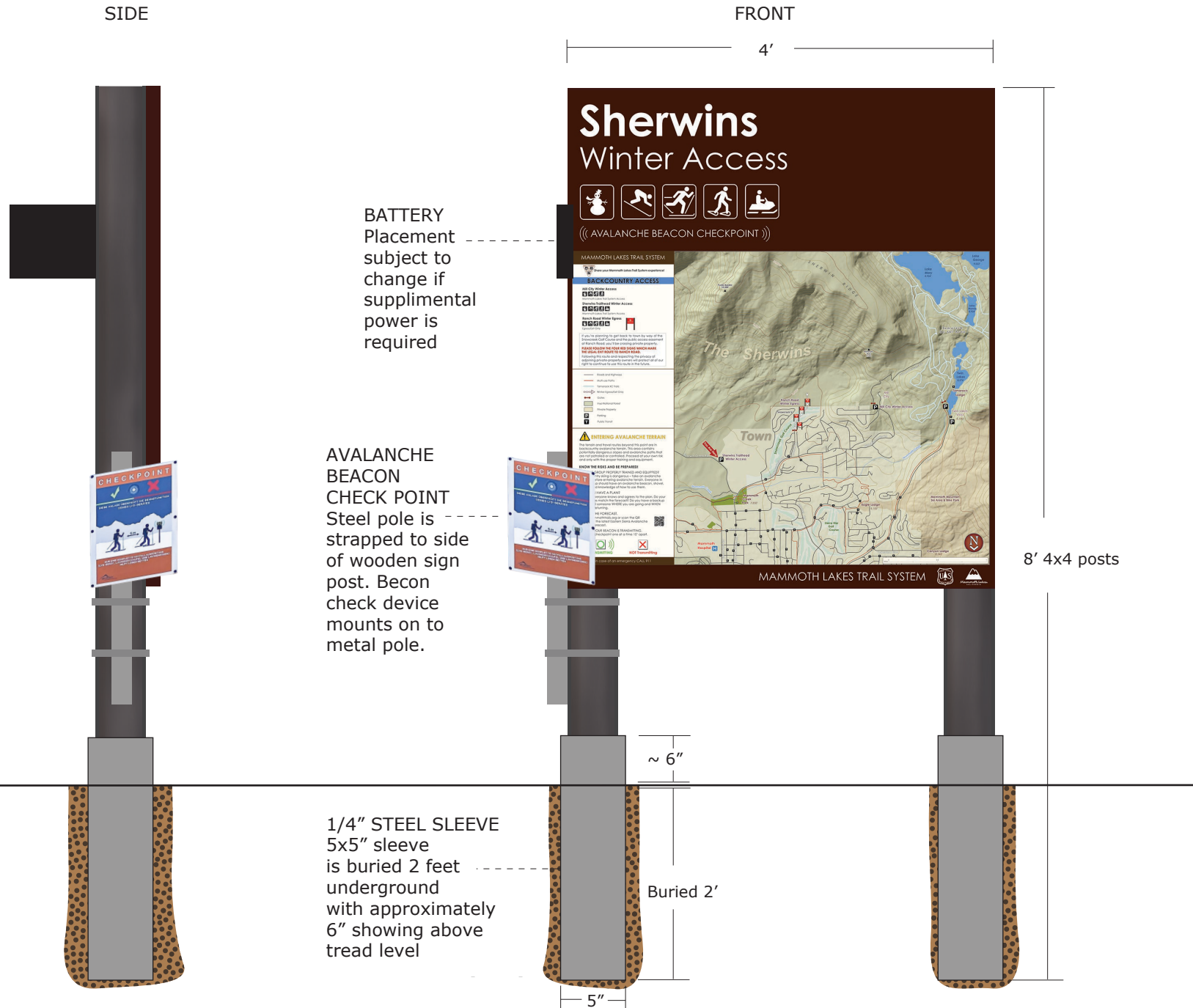
Date	Description
06.30.24	MLTPA Document

Prepared by





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

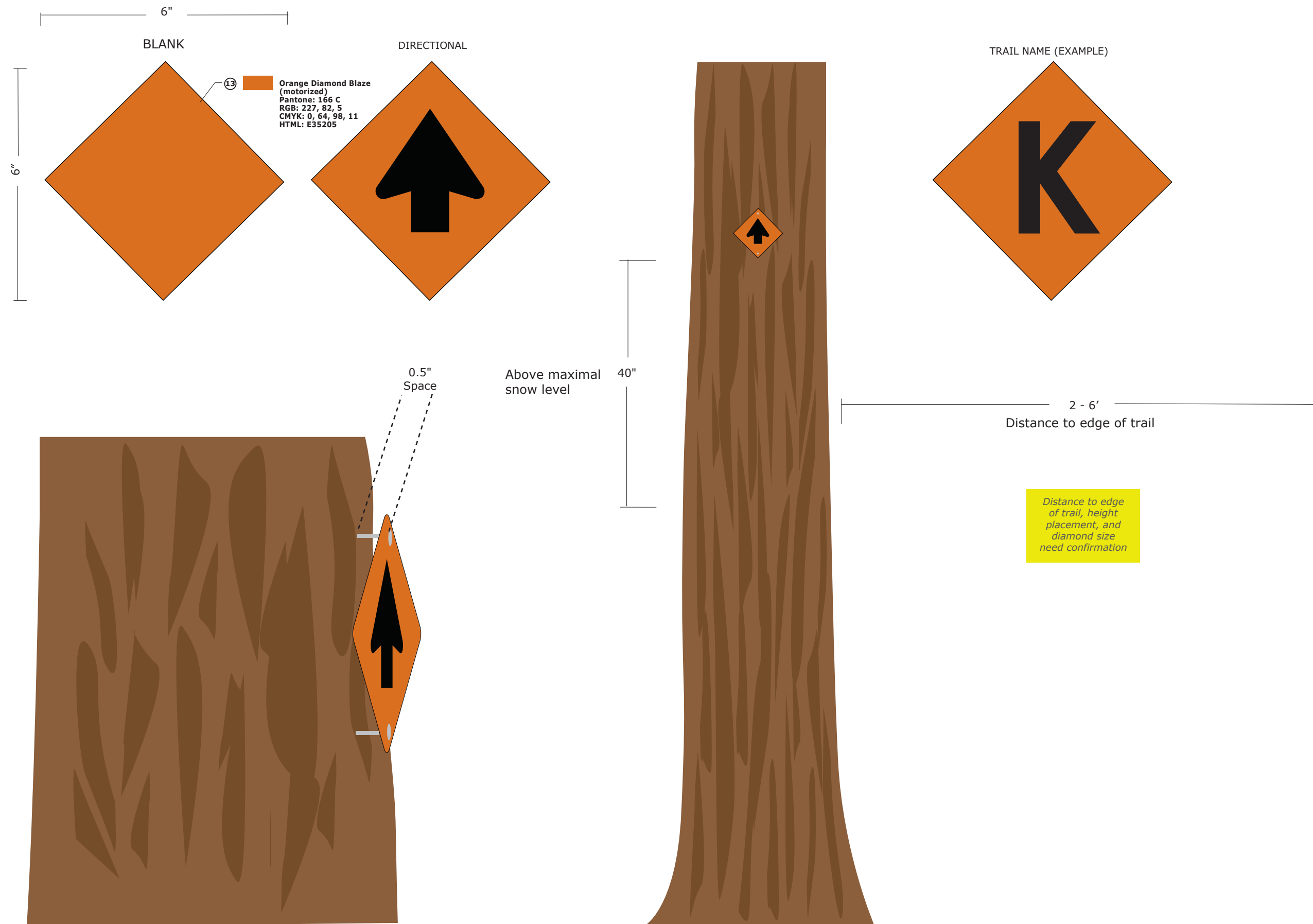
BASIC INFORMATION
Sign Material: 3/16" aluminum.
Post Material: 4x4" wooden posts with 5x5" quarter inch steel sleeve.
INSTALLATION
 Signs are mounted to 4x4" post. 5x5" sleeve is buried 2 feet in ground with approximately 6" showing above. Sign posts slide into sleeves. Steel pole is strapped to side 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

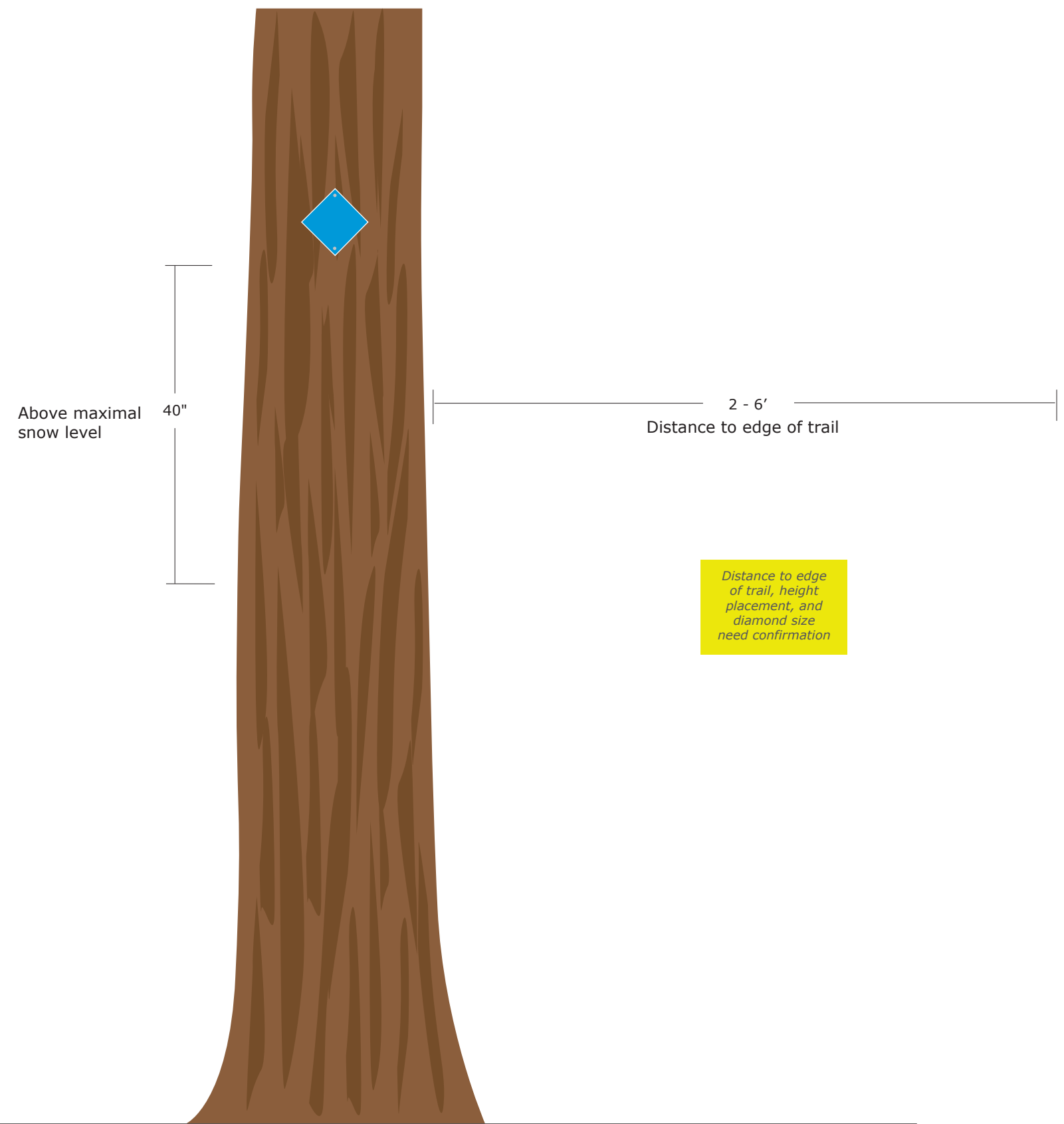
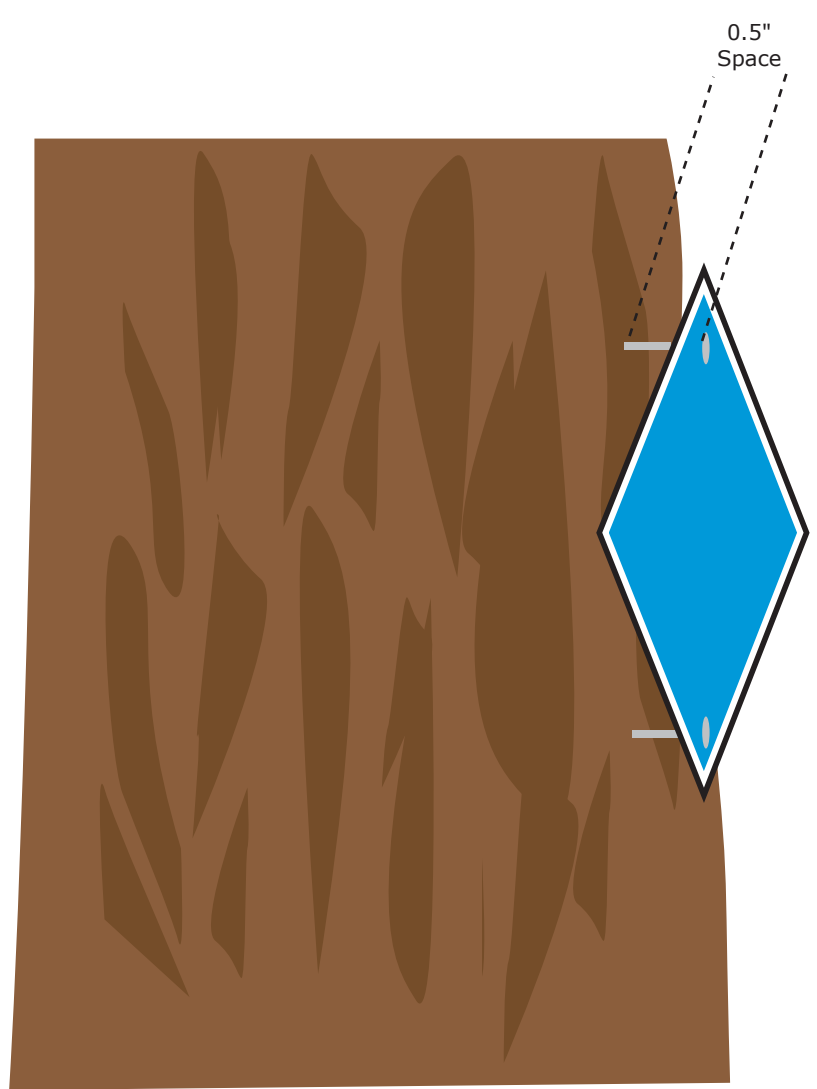
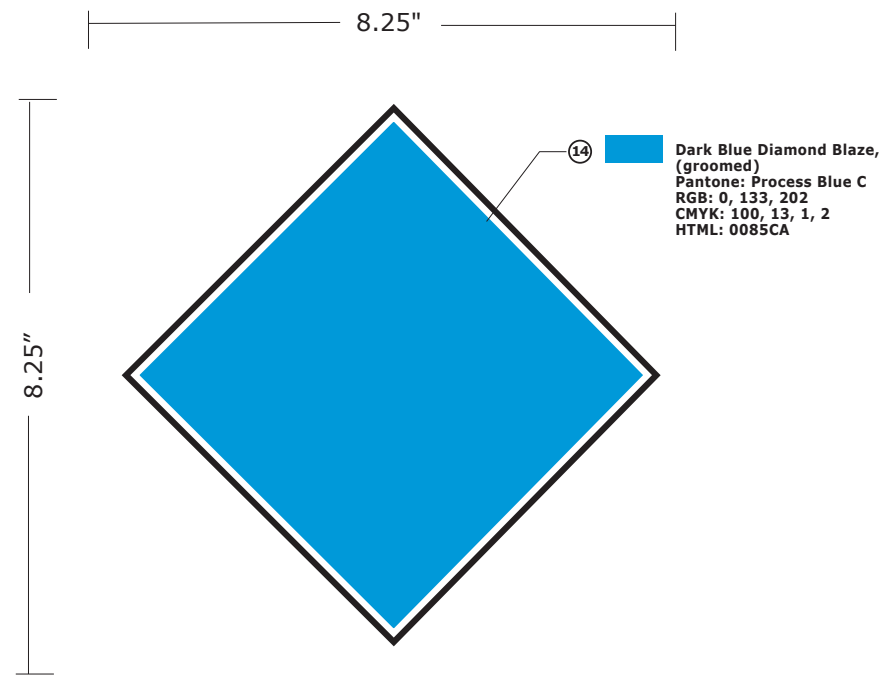
Orange Diamonds function as reassurance markers attached to trees or posts on Groomed Motorized Winter Trails to keep users on course. These blazes are placed at all intersections and along groomed motorized trails where location could be uncertain.

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.

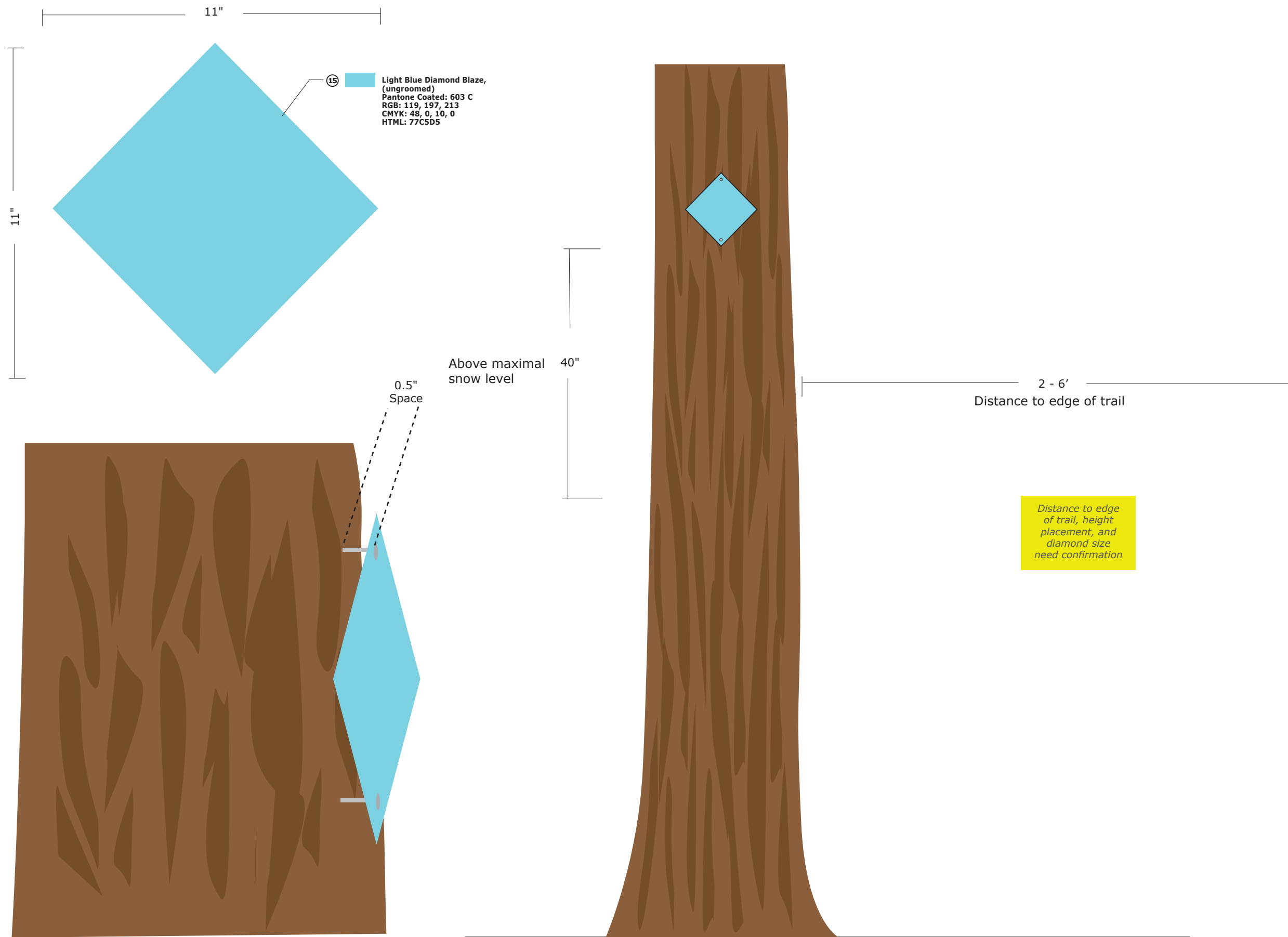
These blazes are placed at all intersections and along ungroomed non-motorized routes where location can be uncertain.

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

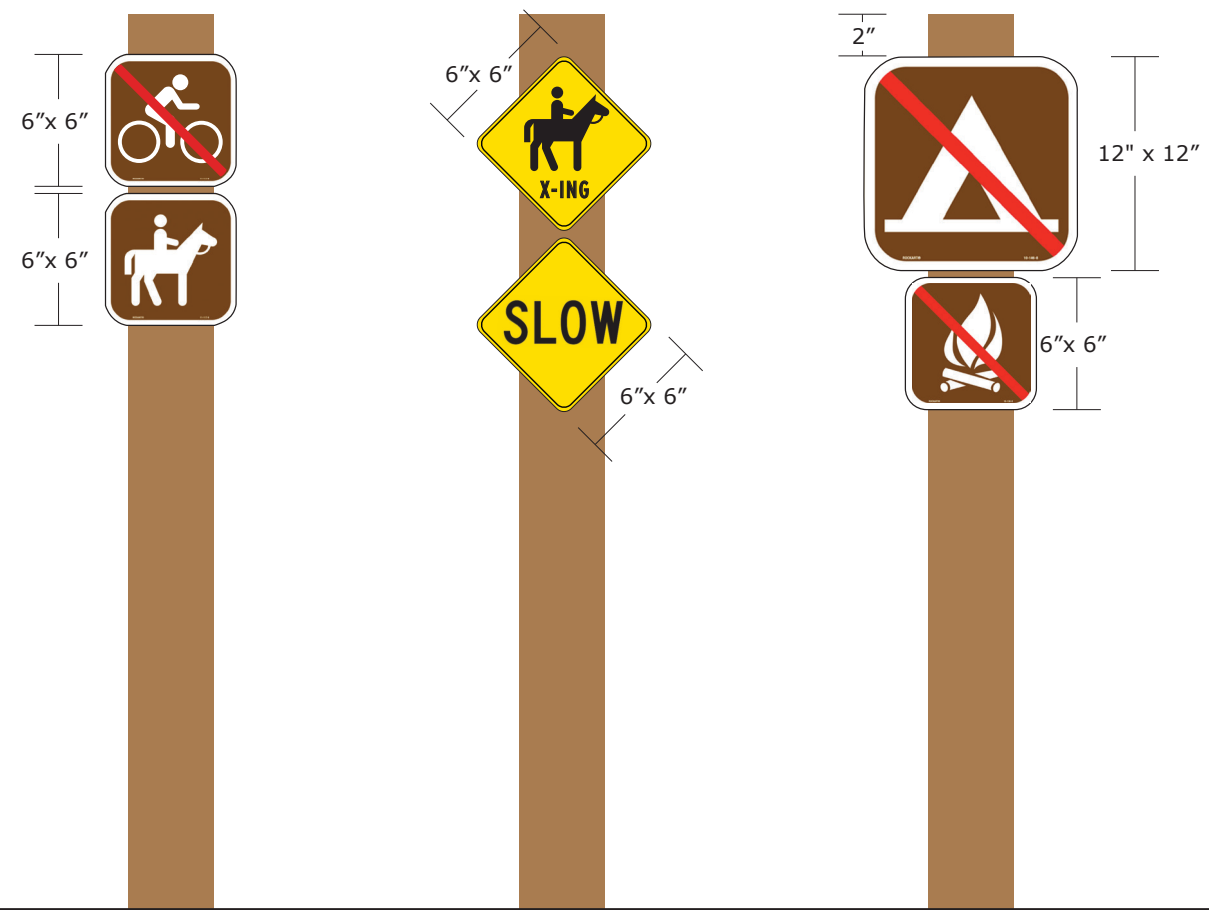


PRODUCTION, FINISH AND GRAPHICS

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

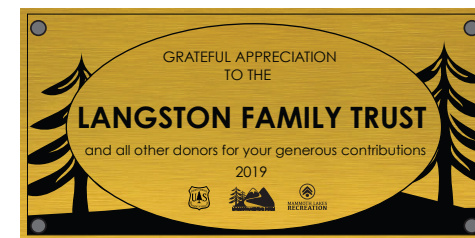
Trail counter installation on post optional.

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

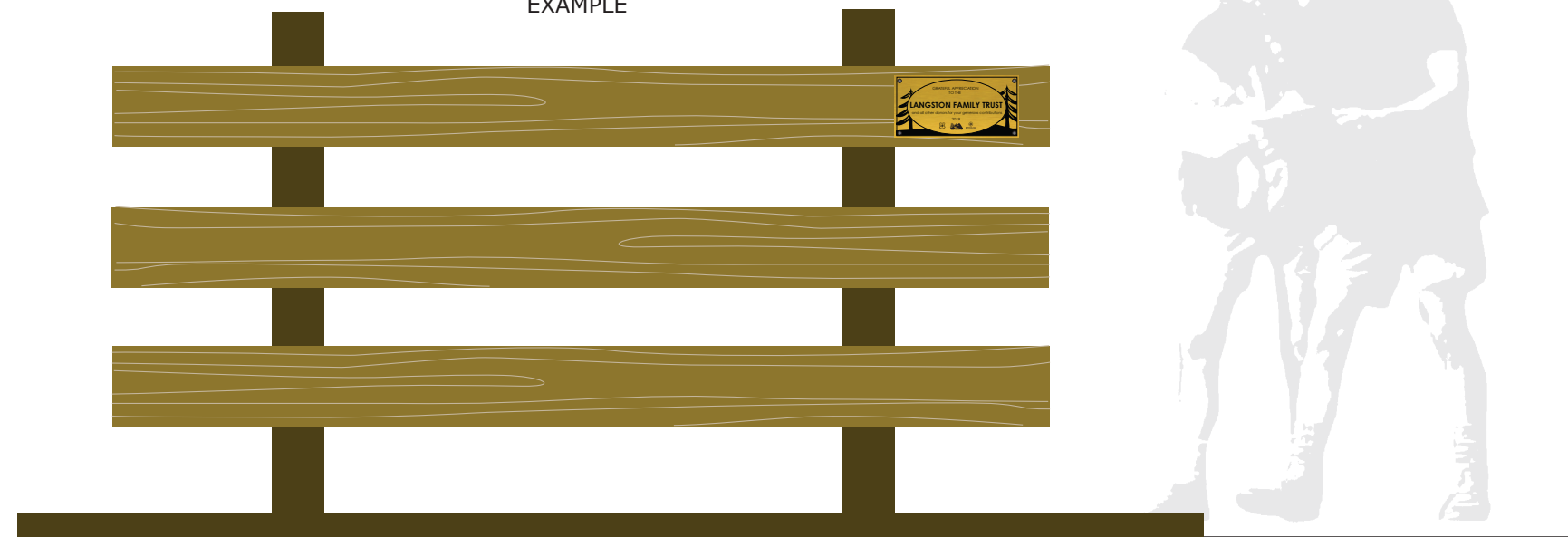




DIFFERING SIZE AND ASPECT RATIO EXAMPLES



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



Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Wood Product Signs Production Process:

Sign Vendor Information:

Vendor: Wood Product Signs (WP)

Timeframe: 6-8 Weeks + Shipping

Price: Varies

Website: <http://www.woodproductsigns.com/>

Telephone Number: 1-970-641-1675

Previous Contacts:

Paitra Porter, Office Assistant

Email Address: accounting@woodproductsigns.com

Taylor McCrery, Sign Designer

Email Address: design@woodproductsigns.com

Sign Order Process:

1. Determine messaging for each proposed sign.
 - See **Trail Signage Messaging Standards** section for additional information.
2. Copy the Wood Product Order Form Template and save a new copy using proper MLTS file naming conventions/file organization.

Template File Name:

052_07_SM_TrailSgng_WP_OrderForm_Template_170504

Location:

Standards Manual > Trail Signage > 4_Production > >Templates > WP Order Form

3. Complete all relevant fields for each sign using the content developed during the messaging process in the Mail Merge Messaging Spreadsheet.
 - Be sure to list the type of being ordered from Wood Product.
 - “USFS Oak Trail Signs: Scorched Letters”
 - Proofread the Order Form for typos or messaging errors.
 - It helps in the long run to cluster signs by the area they are in on the order form.

Wood Product Order Form Example

USFS Oak Trail Signs: Scorched Letters

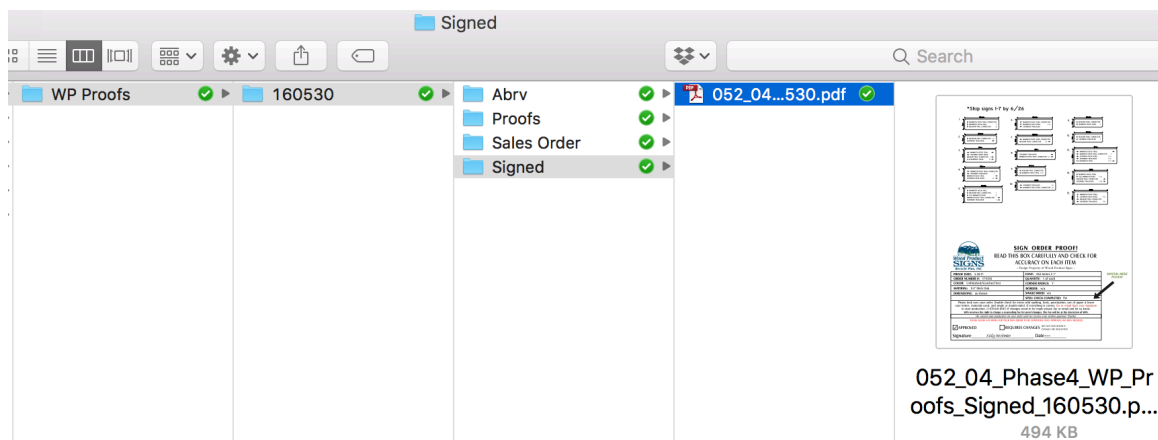
	Sign #	Message	Arrow
1	MRC_0.00a	Mammoth Rock Trail Connector	Up
		Mammoth Rock Trail 1	Up
		Meadow Trail Connector 2	Up
2	MRC_0.00b	Meadow Trail Connector 1/4	Up
		Sherwins Trailhead	Right

- Obtain approval from the Trails Coordinator
 - Save approval e-mail in the “Approval” folder

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

4. Meet with the MLTS team to go over the messaging and wayfinding for each sign.
5. Update the Mail Merge Messaging Spreadsheet and the WP Order Form with any updates from the MLTS team.
6. Obtain final approval from the Trails Coordinator before initiating the order process with WP.
7. Send an email to Paitra Porter from Wood Product Signs (see contact information above) be sure to include:
 - Total number of signs
 - Sign Type: USFS Oak Trail Sign: Scorched Letters
 - Ask WP to drilling/seal (clear coat ONLY) the signs. Be sure to state you want a 1/2" hole drilled; it is not the default width.
 - Indicate if this will need to be a "rush order." If so, ask how soon this order can be rushed and how much it may cost.
 - Attach the WP Order form.
8. Once WP sends the sign proofs, review them for errors, and contact the WP Sign Designer with any corrections or changes.
 - If no changes are needed, sign/date the proof form and email it back to WP.
 - After a final proof is accepted, it is a good idea to add the Sign ID number to the PDF. This will help keep you organized in 6-8 when the signs arrive and you need to QC.
 - Save a copy of every proof document sent.
 - Sometimes multiple proofs will be needed, be sure to save it with the date the proof was received.
 - For proofs that are signed add "_signed" to the end of the file name to indicate final approval.

WP Proof File Organization/Naming Example



**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

9. WP will send a draft Sales Order once the proofs have been finalized/approved.
 - Save a copy of the sales order using the same file naming conventions and organization as above.
10. Once the signs are ready to ship, WP will send a tracking number and a final invoice to the Project Lead.
 - Save a copy of the Final Invoice using the same file naming conventions and organization as above.
 - Send an email with the final email to Joel and Kim for payment.
 - Be sure to follow up with WP and the Trails Coordinator to be sure the bill has been paid in a timely manner.

Wood Post Production Process:

Wood Post Vendor Information:

Vendor: Home Depot/Lowe's/High Country Lumber

Material: Cedar or redwood 4X4 by 8 feet long post

Price: Varies

Sourcing Wood Posts

1. Contact High Country Lumber and determine the quantity of posts in stock.
 - If they have enough inventory, coordinate payment with the Trails Coordinator and the Operations Manager. Then drive down to Bishop with a truck and a second person to pick up. See Step 3 for the process of picking out posts.
 - If they do not, try to special order. If that is not a viable option, see Step 2.
2. Contact all the Home Depot and Lowe's stores in the Reno area, typically Carson City, NV and Reno, NV, and determine the inventory of 4X4 by 8 feet long cedar or redwood posts at each store.
 - Visit the stores with the greatest stock of cedar or redwood posts first. See Step 3 for more information picking out the best posts.
3. Quality control each post for:
 - Cracks/imperfections
 - Whether the wood is wet or dry
 - Wet wood is heavier than dry wood, set aside any outrageously heavy posts.
 - Try to pick the straightest and "truest" of the posts to purchase.
4. Payment
 - Coordinate the method of payment with the Trails Coordinator and the Operations Manager BEFORE picking up the posts.

**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

Post Drilling & Routing Vendor Information

Vendor: DK Woodworks

Timeframe: Varies

Price: \$35/post plus a one-time setup fee

Website: <http://www.dkwoodworksinc.com>

Telephone Number: 760 - 935-4793

Previous Contacts:

Matt Don, Main Contact

Email Address: iwishiwasskiing@yahoo.com

David, Owner

Email Address: David@dkwoodworksinc.com

Cedar Post Drilling Preparation Process – Single Sided Posts:

1. Label the bottom of each post using a Sharpie with the following:
 - Individual Sign Number:
 - Example: PMT_0.00a, PMT_0.19a, etc.
2. Create a specifications packet for the vendor including the following information:
 - Cedar post drilling and routing specifications for each order
 - The total number of each post size (see below)
 - Diagrams of drilling and routing specifications
 - Diagrams and dimensions of logos/QR codes
 - Dimensions of each sign
3. Hole Size for Single-Sided Sign Posts:
 - Single-sided signs are attached to the posts with 3/8" X 5" long carriage.
 - Provided hardware to DK Woodworks for measurement and reference.

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Example of Single Sided Post DK Woodworks Post Order Sheet:

Count	Sign #	# of Lines	Dimensions	Hole #1	Hole #2	Hole #3
1	PMT_0.00	3 Lines	9" X 33"	4.5" from top of post	11.5" from top of post	10" from bottom
2	PMT_0.19	3 Lines	9 X 30"	4.5" from top of post	11.5" from top of post	10" from bottom
3	PML_0.00	2 Lines	7" X 26.5"	4.5" from top of post	9.5" from top of post	10" from bottom
4	PMT_0.20	2 Lines	7" X 25"	4.5" from top of post	9.5" from top of post	10" from bottom
5	PMT_0.24	2 Lines	7" X 26.5"	4.5" from top of post	9.5" from top of post	10" from bottom
6	PMT_0.29	2 Lines	7" X 26.5"	4.5" from top of post	9.5" from top of post	10" from bottom
7	PMT_0.25	3 Lines	9" X 32"	4.5" from top of post	11.5" from top of post	10" from bottom
8	PML_0.49	2 Lines	7" X 29"	4.5" from top of post	9.5" from top of post	10" from bottom
9	PMT_0.69	2 Lines	7" X 25"	4.5" from top of post	9.5" from top of post	10" from bottom
10	PMT_0.70	2 Lines	7" X 32"	4.5" from top of post	9.5" from top of post	10" from bottom
11	PMT_0.35	1 Line	5" X 20"	4.5" from top of post	7.5" from top of post	10" from bottom

Drilling Specifications Key

# of Lines	Color	Total
1 Line		1
2 Line		7
3 Line		3

**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

General Post Drilling Specifications:

# of Lines	Hole #1	Hole #2	Hole #3
1 Line Post	4.5" from top of post	7.5" from top of post	DK Specs
2 Line Post	4.5" from top of post	9.5" from top of post	DK Specs
3 Line Post	4.5" from top of post	11.5" from top of post	DK Specs
4 Line Post	4.5" from top of post	13.5" from top of post	DK Specs
5 Line Post	4.5" from top of post	15.5" from top of post	DK Specs
6 Line Post	4.5" from top of post	17.5" from top of post	DK Specs

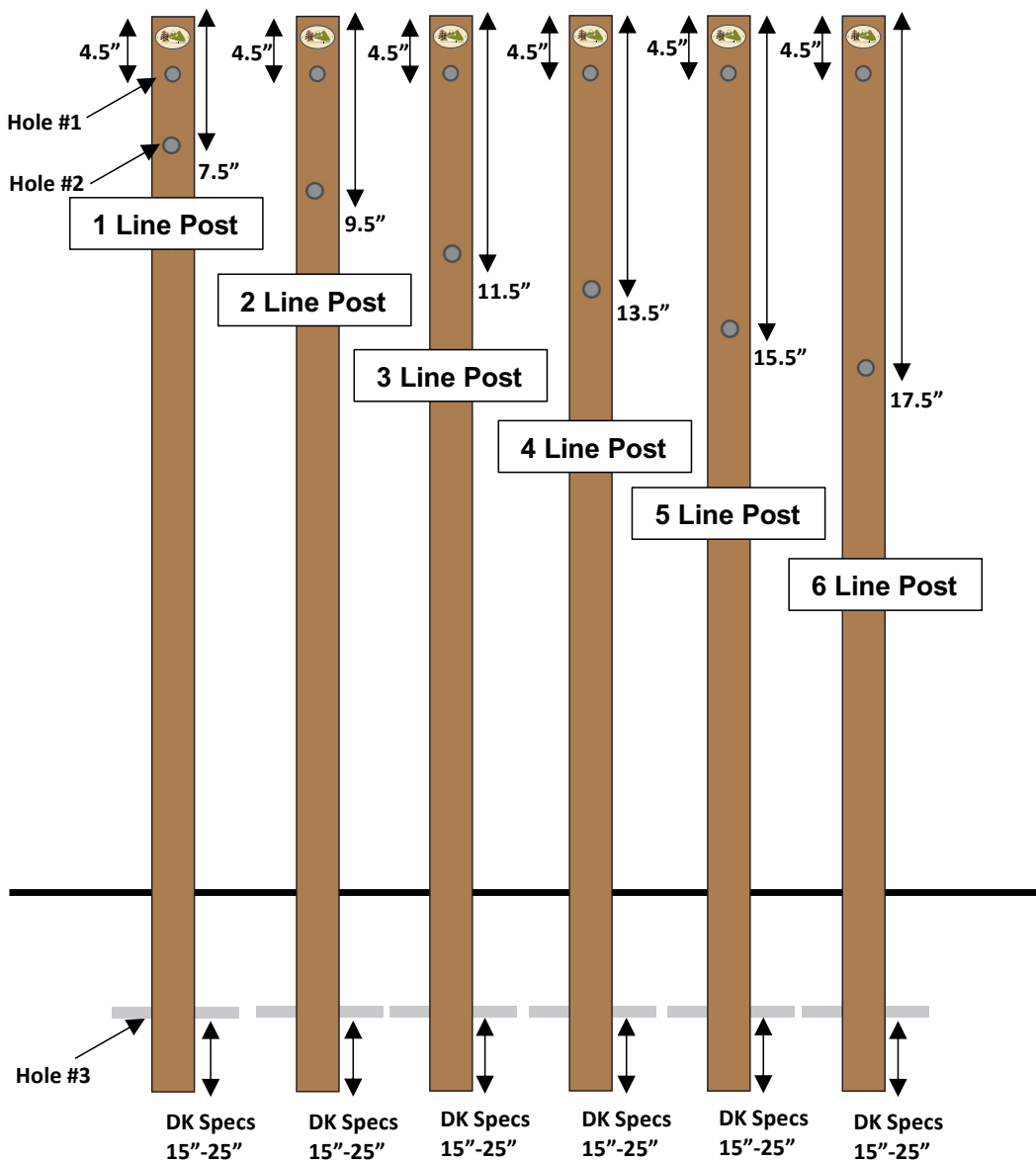
Trail Signage

Production & Assembly Process - Type 9a/Type 9b

July 22, 2018

Cedar Post Drilling Preparation Process – Double Sided Posts:

1. Label the bottom of each post using a Sharpie with the following:
 - Use fractions for double sided mismatching and matching posts.
 - “1/1” for a matching 1-line sign
 - “5/2” for a 5-line sign on the front with a 2-line sign on the back.
2. Create a Specifications Packet for the vendor including the following information:
 - Cedar post drilling and routing specifications for each order



Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

- The total number of each post size (see below)
 - Diagrams of drilling and routing specifications
 - Diagrams and dimensions of logos/QR codes
 - Dimensions of each sign
3. Hole Size for Double-Sided Posts:
- Matching posts use 3/8" X 6" long carriage bolts
 - Mismatching posts use:
 - (1) use 3/8" X 6" long carriage bolts (hole #1)
 - (1) 1/2" 2 1/2" long lag (hole #2)
 - These holes are not drilled all the way through.
 - Offset posts use:
 - (2) 1/2" 2 1/2" long lag (holes #1 & #2)
 - Hole #1 is placed 3.5" from bottom of front side on the right side (side without the QR code) of the post.
 - Hole#2 is placed based on the # of lines in the sign. See "General Post Drilling Specifications" section above.
 - Provided hardware to DK Woodworks for measurement and reference

Double Sided Post DK Woodworks Order Example

		Sign Abrv	# of Lines	Double Sided?	Hole #1	Hole #2	Anchor Bolt Hole
1	1	MTC_0.00a	2 Line	Yes: Matching	4.5" from top of post	9.5" from top of post	DK Specs
2		MTC_0.00b	2 Line	Yes: Matching	4.5" from top of post	9.5" from top of post	DK Specs
3	2	MRC_0.00a	3 Line	Yes: Mismatching	4.5" from top of post	11.5" from top of post	DK Specs
4		MRC_0.00b	2 Line	Yes: Mismatching	4.5" from top of post	9.5" from top of post	DK Specs
		Total Posts	2				

Double-Sided Pairs

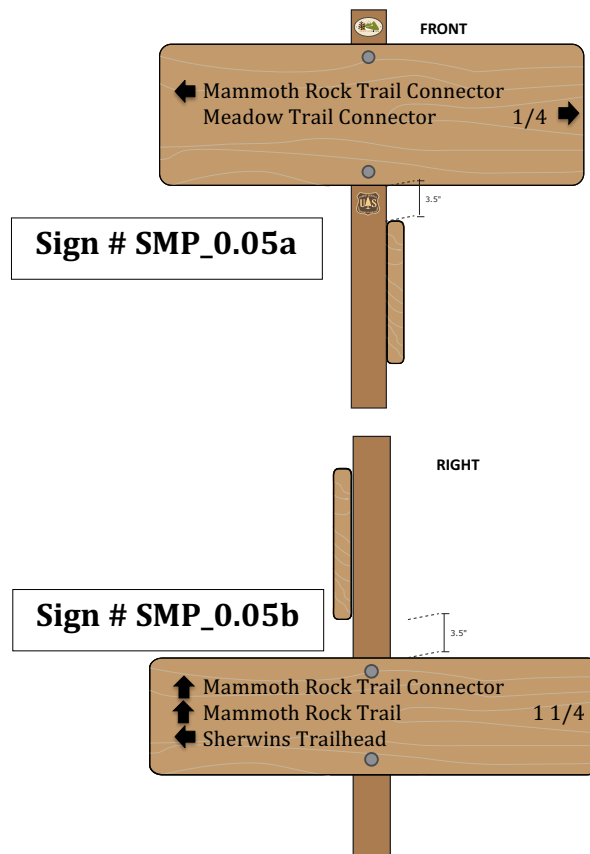
Count	Type of Double-Sided Sign	Double-Sided Signs	# Lines
1	Matching Double-Sided	MTC_0.00a + MTC_0.00b	2 Line + 2 Line
2	Mismatching Double-Sided	MRC_0.00a + MRC_0.00b	3 Line + 2 Line
2	Total Double-Sided Signs		

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Double Sided Offset Post DK Woodworks Order Example

		Sign Abrv	# of Lines	Double Sided?	Hole #1	Hole #2	Anchor Bolt Hole
1	1	SMP_0.05a	2 Line	Yes: Offset	4.5 from top of post	9.5" from top of post	DK Specs
2		SMP_0.05b	3 Line	Yes: Offset	3.5" from bottom of sign "SMP_0.05a" and drilled on the right side (non-QR code side) of the post	DK Specs	DK Specs
		Total Posts	1				

**Double-Sided Offset Sign Concept Drawing
(SMP_0.05a and SMP_0.5b)**

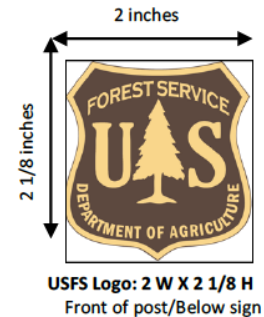
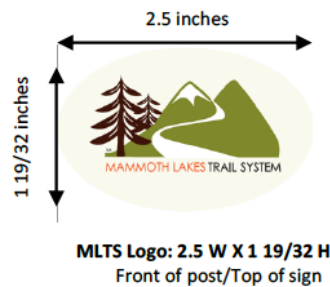
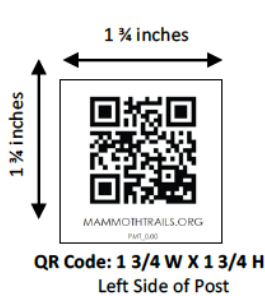


Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

USFS/MLTS Logo & QR Code Routing Specifications:

1. Logo/QR Code Dimensions:

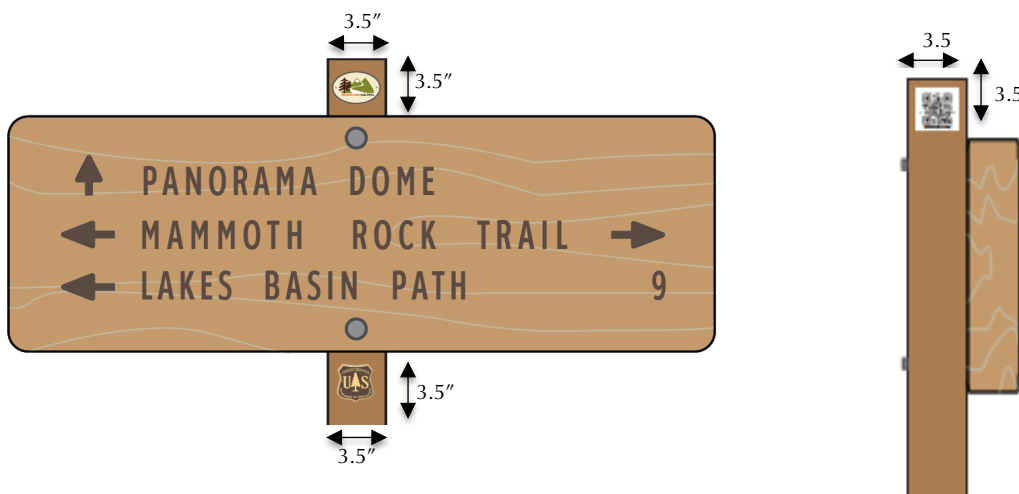
- 1 MLTS Logo (Oval) = 2.5" W X 1 19/32" H
- 1 QR Code (Square) = 1 3/4" W X 1 3/4" H
- 1 USFS Logo (Shield) = 2" W X 2 1/8" H



2. Routing Specifications:

- **Depth:** Slightly inset, 1/16" more than depth of each logo/QR code
- **Routing Area:**
 - **Above the sign:** 3.5" X 3.5" routing area above sign
 - Logo centered horizontally
 - Logo centered vertically
 - **Below the sign:** 3.5" X 3.5" routing area below sign
 - Logo centered horizontally
 - Logo centered vertically

Routing Area: Front and Left Side (QR Code) Diagram



Trail Signage

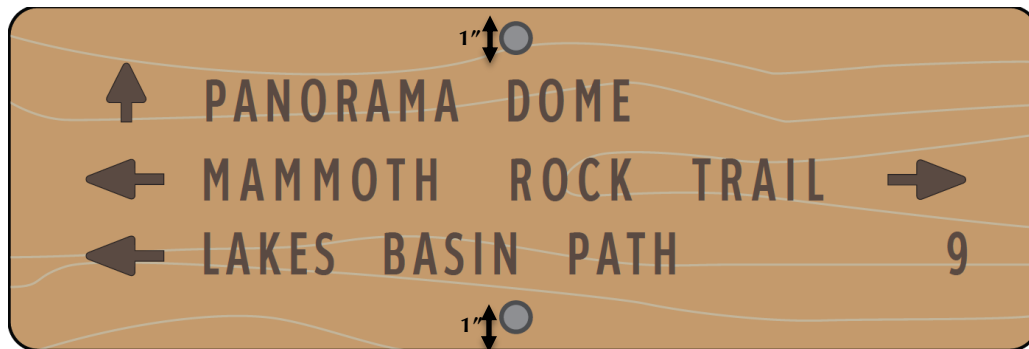
Production & Assembly Process - Type 9a/Type 9b

July 22, 2018

Sign Drilling Specifications:

1. Sign drilling may be done by Wood Product Signs as part of the sign order or by DK Woodworks.
 - Wood Product Signs is the most efficient option and should receive preference. During the busy season, Wood Product Signs may not have the capacity to drill sign in which case, DK Woodworks would be the best option.
2. Holes should be centered horizontally, and placed 1" from the top and bottom edge of the sign. All signs will receive a 3/8" hole to simplify the production process.
 - MLTS Staff will expand the drill holes of signs that will be attached with 1/2" hardware prior to installation individually with MLTS tools.

Sign Drilling Specifications



Receiving Posts/Signs

Receiving Drilled/Routered Posts

- Drill Specification Quality Control Procedure:
 - Confirm that the quantity of single sided 1 line – 6 line posts.
 - Confirm quantity and accuracy of drill holes for double sided posts.
 - Pay special attention to mismatching and offset posts.
 - Check for anchor bolt hole in the bottom of the post
- Quality Control Routering:
 - Check the routering of each post with the MLTS logo, USFS logo, and QR code.
 - Check that the square, oval, and shield are centered on the post.
 - Confirm that the QR code placement (left side of post).
 - Check that the logos and QR codes fit in the routered shapes on the posts. Pay special attention to routering depth and width.

**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

Receiving Signs Procedure

- Double check messaging
- Check that the holes are the correct size and centered
- Check that each sign was sealed, if that was part of the order from WP.

Type 9a Assembly Procedure

Assembly Hardware:

- Two 3/8 by 5" long galvanized carriage bolts to attach sign to post
- Two 3/8 galvanized metal nuts for carriage bolts
- Two 3/8 galvanized washers for carriage bolts
- Two 3/8 galvanized locking washers for carriage bolts
- Five screws: (2) MLTS logo, (2) QR Code, and (1) USFS logo
- One 10" 3/8 galvanized carriage bolt to serve as the anchor bolt
- Two 3/8 nuts per carriage bolt serving as the anchor bolt

Assembly Tools:

- Hammer
- Crescent wrench
- Tape measure
- Vice grips
- Tung oil
- Paint container (for tung oil)
- Lint free clothes
- Paper Towels
- Plastic tarp
- Philips screw driver
- Drill and drill bits
- Trash bag

Assembly Process: Single-Sided Signs

Single-Sided Post Assembly:

1. Pre-drill logo and QR Code attachment holes into post
2. Attach the logos and QR codes to the posts with the 4 X 3/4" flat head Philips wood screws.
3. Attach anchor bolt to the bottom of the post:
 - Add the first nut as far as it will go on the carriage bolt.
 - Insert the bolt into the post so that there is even bolt on either side of the post.
 - Add the second nut and tighten so it is firmly attached to post.
 - Check to make sure the anchor bolt does not move.
 - If it does, tighten with a crescent wrench.

Trail Signage

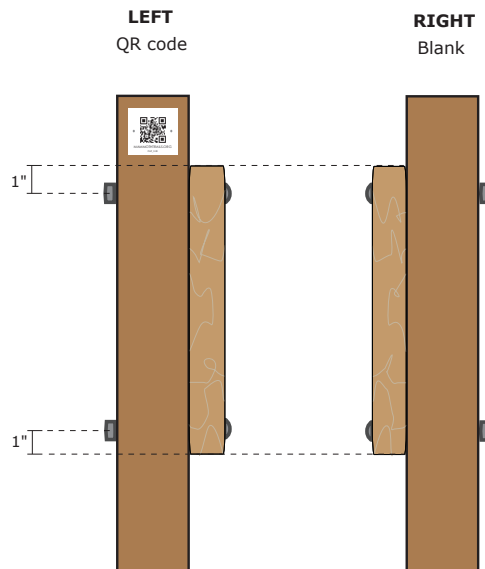
Production & Assembly Process - Type 9a/Type 9b

July 22, 2018

Single-Sided Post & Sign Attachment:

1. Attach sign to post using two 3/8" by 5" long carriage bolts, two washers, two locking washers and two nuts.
 - Put the bolt through the front of the sign and into the post.
 - Add washer, locking washer, and nuts to the end of the bolt.
 - Tighten with a crescent wrench.
 - Check that the sign is firmly attached, and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
 - If the top of the bolt is not flush with the sign carefully tap the top of the bolt with a hammer.
 - Retighten nut with a crescent wrench as needed.
 - Follow this procedure for both the upper and lower sign attachments.
2. Prepare post for final field installation by using the procedure below:
 - Use a tape measure to measure 48" from bottom of the sign.
 - Draw a line on the post at 48" to indicate depth of hole for installation.

Single-Sided Sign Attachment Specifications



**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

Assembly Process: Double Sided Matching Signs

Double Sided Matching Post Assembly:

1. Pre-drill logo and QR Code attachment holes into post.
2. Attach the logos and QR codes to the posts with the 4 X 3/4" flat head Philips wood screws.
3. Attach anchor bolt to the bottom of the post:
 - Add the first nut as far as it will go on the carriage bolt.
 - Insert the bolt into the post so that there is even bolt on either side of the post.
 - Add the second nut and tighten so it is firmly attached to post.
 - Check to make sure the anchor bolt does not move.
 - If it does, tighten with a crescent wrench.

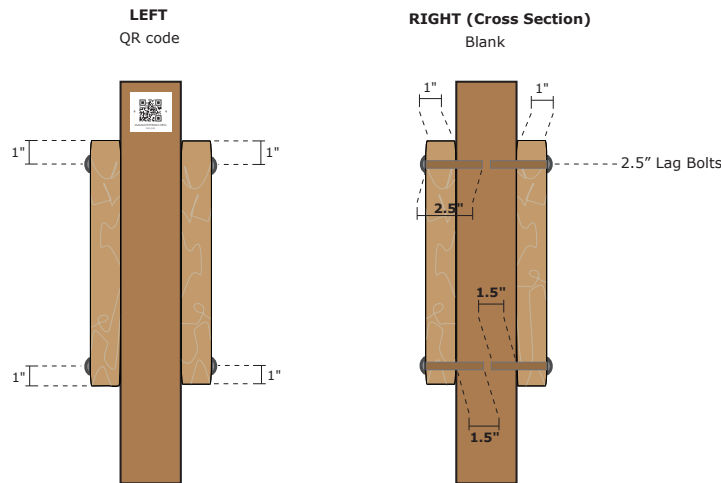
Double Sided Matching Post & Sign Attachment:

1. Attach sign to post using two 3/8" X 6" long carriage bolts, two washers, two locking washers and two nuts.
 - Put the carriage bolt through the front of the sign and into the post.
 - Add washer, locking washer, and nuts to the end of the bolt.
 - Tighten with a crescent wrench.
 - Check that the sign is firmly attached, and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
 - If the top of the bolt is not flush with the sign carefully tap the top of the bolt with a hammer.
 - Retighten nut with a crescent wrench as needed.
 - Follow this procedure for both the upper and lower sign attachments.
2. Prepare post for final field installation by using the procedure below:
 - Use a tape measure to measure 48" from bottom of the sign.
 - Draw a line on the post at 48" to indicate depth of hole for installation.

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Double Sided Matching Sign Attachment Specifications

Assembly
Double



Process:
Sided

Mismatching Signs

Double Sided Mismatching Post Assembly:

1. Pre-drill logo and QR Code attachment holes into post.
2. Attach the logos and QR codes to the posts with the 4 X $\frac{3}{4}$ " flat head Philips wood screws.
3. Attach anchor bolt to the bottom of the post:
 - Add the first nut as far as it will go on the carriage bolt.
 - Insert the bolt into the post so that there is even bolt on either side of the post.
 - Add the second nut and tighten so it is firmly attached to post.
 - Check to make sure the anchor bolt does not move. If it does, tighten with a crescent wrench.

Double Sided Mismatching Post and Sign Attachment:

1. Attach sign to post using one $\frac{3}{8}$ " X 6" long carriage bolt, two washers, two locking washers and two nuts (top attachment) and two $\frac{1}{2}$ " by 2 $\frac{1}{2}$ " long lag screws and two $\frac{1}{2}$ " locking washers (bottom attachment).
 - Top Attachment Procedure:
 - Put the carriage bolt through the top hole of the front sign (side a), into the post, and through the top hole of the back sign (side b).
 - Add washer, locking washer, and nuts to the end of the bolt on the back sign (side b).
 - Tighten with a crescent wrench. Check that the sign is firmly attached, and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
 - Bottom Attachment Procedure:
 - Place the $\frac{1}{2}$ " locking washer onto the 2 $\frac{1}{2}$ " lag and put the lag through the bottom hole of the front sign (side a).

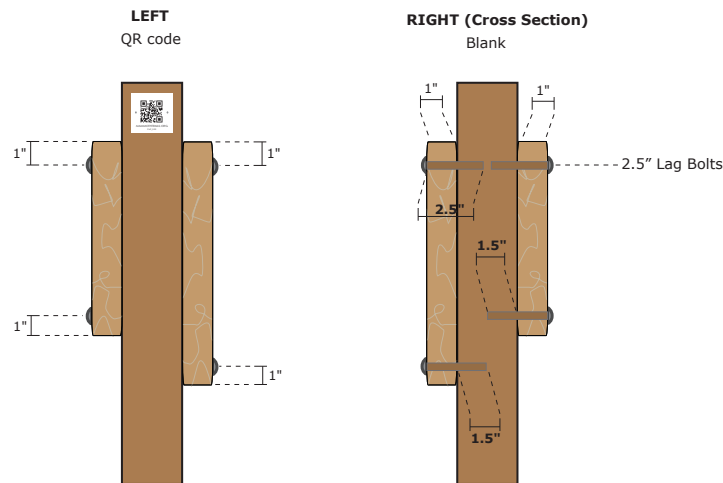
Trail Signage

Production & Assembly Process - Type 9a/Type 9b

July 22, 2018

- Locking washer should be on the front of the sign.
 - Tighten with a socket wrench. Check that the sign is firmly attached, and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
 - Follow this procedure for the lag on the back sign (side b).
2. Prepare post for final field installation by using the procedure below:
- Use a tape measure to measure 48" from bottom of the sign.
 - Draw a line on the post at 48" to indicate depth of hole for installation.

Double Sided Mismatching Sign Attachment Specifications



Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018

Assembly Process: Double Sided Offset

Double Sided Offset Post Assembly:

1. Pre-drill logo and QR Code attachment holes into post.
2. Attach the logos and QR codes to the posts with the 4 X $\frac{3}{4}$ " flat head Philips wood screws.
3. Attach anchor bolt to the bottom of the post:
 - Add the first nut as far as it will go on the carriage bolt.
 - Insert the bolt into the post so that there is even bolt on either side of the post.
 - Add the second nut and tighten so it is firmly attached to post.
 - Check to make sure the anchor bolt does not move.
 - If it does, tighten with a crescent wrench.

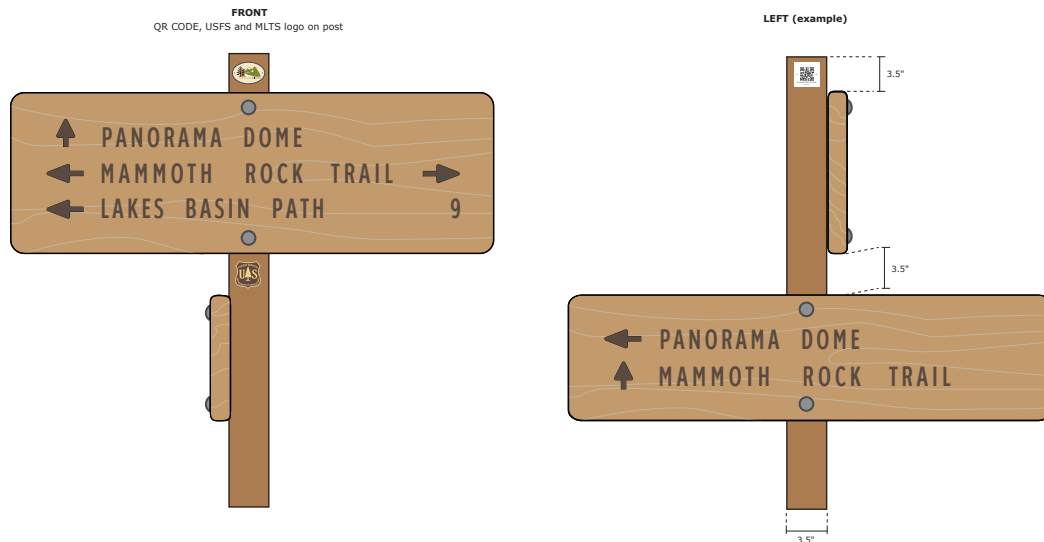
Double Sided Offset Post and Sign Attachment:

1. Attach front facing sign to post using 2 1/2" by 2 1/2" long lag screws and two 1/2 locking washers.
 - Place the $\frac{1}{2}$ locking washer onto the 2 1/2" lag
 - Put the lag through the front of the sign
 - Locking washer should be on the front of the sign.
 - Tighten with a socket wrench
 - Check that the sign is firmly attached and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
2. Attach the offset sign
 - The sign is placed 3.5" beneath the bottom of the front facing sign on the appropriate left or right facing side of the post.

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

- Attach front facing sign to post using 2 1/2" by 2 1/2" long lag screws and two 1/2 locking washers.
 - Place the 1/2 locking washer onto the 2 1/2" lag.
 - Put the lag through the front of the sign.
 - Locking washer should be on the front of the sign.
 - Tighten with a socket wrench
 - Check that the sign is firmly attached and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
- 3. Prepare post for final field installation by using the procedure below:
 - Use a tape measure to measure 48" from bottom of the sign.
 - Draw a line on the post at 48" to indicate depth of hole for installation.

Double Sided Offset Sign Attachment Specifications



**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

Assembly Process: Type 9b Feature ID Signs

Type 9b Feature ID Post Assembly:

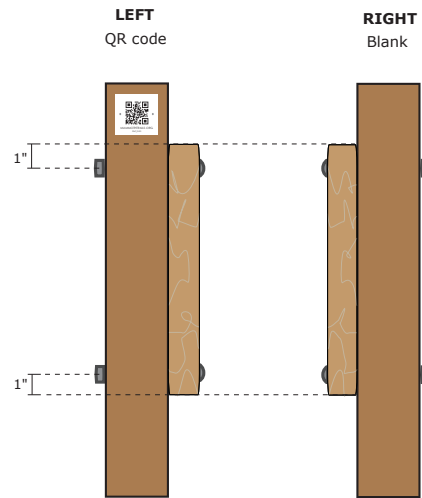
1. Pre-drill logo and QR Code attachment holes into post.
2. Attach the logos and QR codes to the posts with the 4 X ¾" flat head Philips wood screws.
3. Attach anchor bolt to the bottom of the post:
 - Add the first nut as far as it will go on the carriage bolt.
 - Insert the bolt into the post so that there is even bolt on either side of the post.
 - Add the second nut and tighten so it is firmly attached to post.
 - Check to make sure the anchor bolt does not move.
 - If it does, tighten with a crescent wrench.

Feature ID Post and Sign Attachment:

1. Attach sign to post using two 3/8" X 5" long carriage bolts, two washers, two locking washers and two nuts.
 - Put the bolt through the front of the sign and into the post.
 - Add washer, locking washer, and nuts to the end of the bolt.
 - Tighten with a crescent wrench.
 - Check that the sign is firmly attached, and the top of the bolt is flush with the sign. **DO NOT countersink bolt into sign.**
 - If the top of the bolt is not flush with the sign carefully tap the top of the bolt with a hammer.
 - Retighten nut with a crescent wrench as needed.
 - Follow this procedure for both the upper and lower sign attachments.
2. Prepare post for final field installation by using the procedure below:
 - Use a tape measure to measure 48" from bottom of the sign.
 - Draw a line on the post at 48" to indicate depth of hole for installation.

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Feature ID Sign Attachment Specifications



Type 9a/Type

9b

Installation

Installation Preparation

Hardware/Supplies

1. Confirm that all installation tools are ready to go:
 - Tape Measure
 - Level or “Level App” on smartphones
 - Compass or “Compass App” on smartphones
 - MLTS iPad and Trimble Unit
 - Shovels
 - Rock bars
 - Gloves
 - Crescent wrench
 - Hammer

Type of Installation Day

1. Determine if the signs will be installed by the MLTS Trail Crew, CAL Fire Crew, or during a Trail Days: Sustainable Recreation event.
 - **MLTS Trail Crew**
 - Determine how many MLTS staff members are needed for installation.
 - MLTS staff will place flags at the precise installation location and write the Post ID Code in Sharpie on the flag prior to the installation day.
 - Create a map of the installation area and a messaging inventory of signs to be installed.

Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

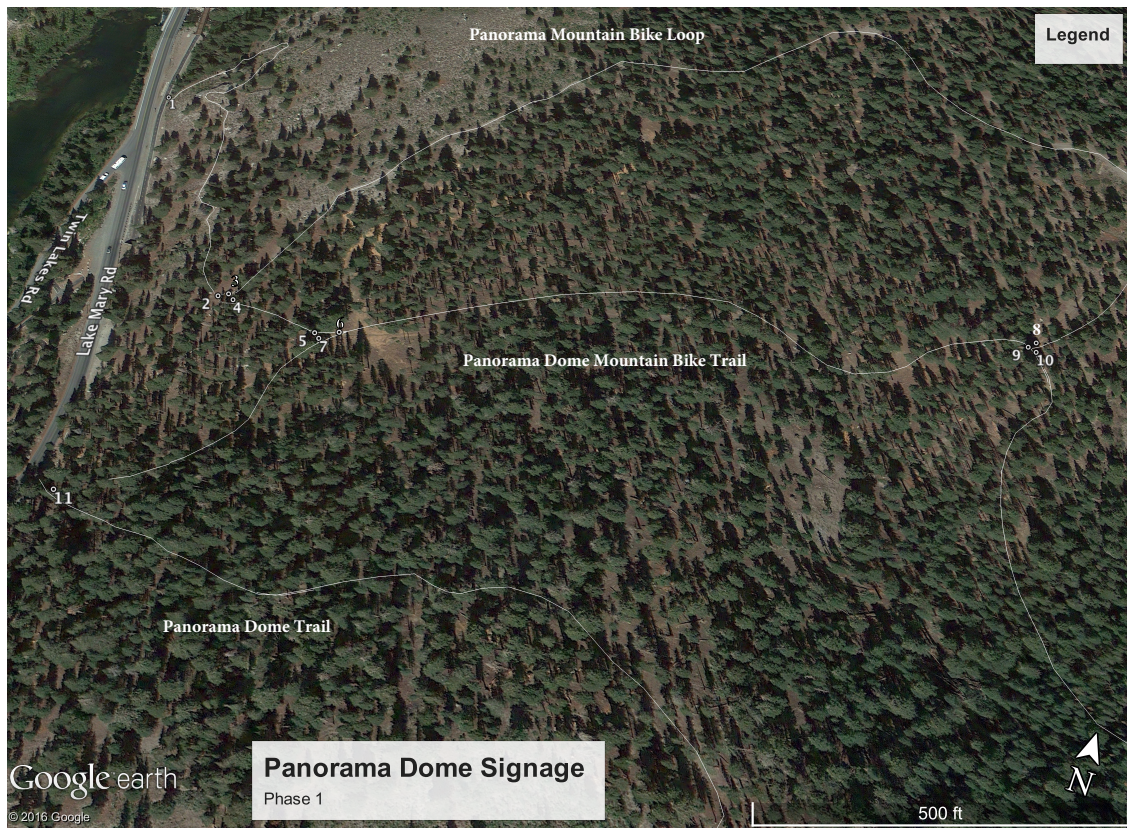
- Communicate with the crew prior to installation and determine if it would be easier to assemble the signs before reaching the installation location or in the field.
- Gather necessary materials and tools:
 - Signs and cedar posts to be installed
 - Installation hardware
 - Sign and post installation tools:
 - Hammer
 - Socket Wrench
 - Shovel
 - Rock Bar
 - Screw driver
 - Gloves
 - Level
 - MLTS iPad and Trimble Unit
- Once the sign is installed take a GPS point and picture using the MLTS iPad and Trimble Unit and add it to the **MLTS Signage Database**.
- **CAL Fire Crew**
 - Trails Coordinator communicates with the Cal Fire Crew Captain to schedule day, time, and meeting place.
 - MLTS staff will place flags at the precise installation location and write the the Post ID Code in Sharpie on the flag prior to the installation day.
 - Create a map of the installation area and a messaging inventory of signs to be installed.
 - Assemble all signs for the Crews prior to installation.
 - Communicate the work plan with the MLTS Trails Coordinator.
 - Once the sign is installed MLTS staff will take a GPS point and picture using the MLTS iPad and Trimble Unit and add it to the **MLTS Signage Database**.
- **Trail Days: Sustainable Recreation Event**
 - Coordinate with the Trails Coordinator and MLTS staff.
 - Confirm the appropriate quantity and type of tools needed
 - Determine who will dig the hole, volunteers or the trail crew
 - Determine simplified assembly process:
 - Will signs be attached to posts by staff before the event or by volunteers during the event?
 - If signs will be attached by volunteers, arrange signs next to their assigned posts (post should be labeled with the Post ID Code) and add the proper attachment hardware next to each post.

**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

- For ease of transport attach a washer, locking washer, and nut to each carriage bolt.
- Be sure that each group has:
 - The appropriate tools for the installation process.
 - An understanding of how the signs are installed according to USFS standards.
 - Each group leader has a copy of the Installation Packet.
- MLTS staff will place flags at the precise installation location and write the Post ID Code in sharpie on the flag prior to the event.
- Create an installation packet:
 - Map of the installation area and GPS locations of each sign
 - Messaging inventory of signs to be installed
 - Installation specifications
- Gather necessary materials and tools:
 - Signs and cedar posts to be installed
 - All sign and post installation hardware
 - Sign and post installation tools:
 - Hammer
 - Socket Wrench
 - Shovel
 - Rock Bar
 - Screw driver
 - Gloves
 - Level
 - MLTS iPad and Trimble Unit
- Once the sign is installed MLTS staff will take a GPS point and picture using the MLTS iPad and Trimble Unit and add it to the **MLTS Signage Database.**

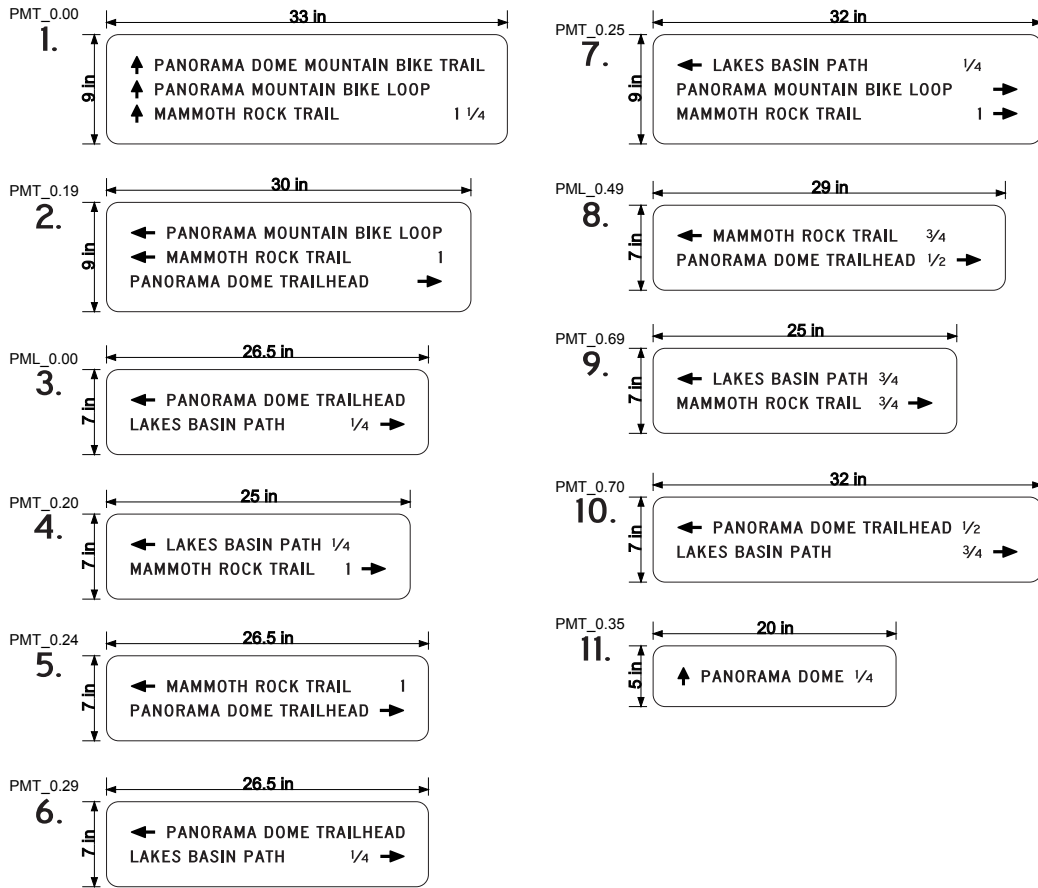
Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Example of Sign Installation Map



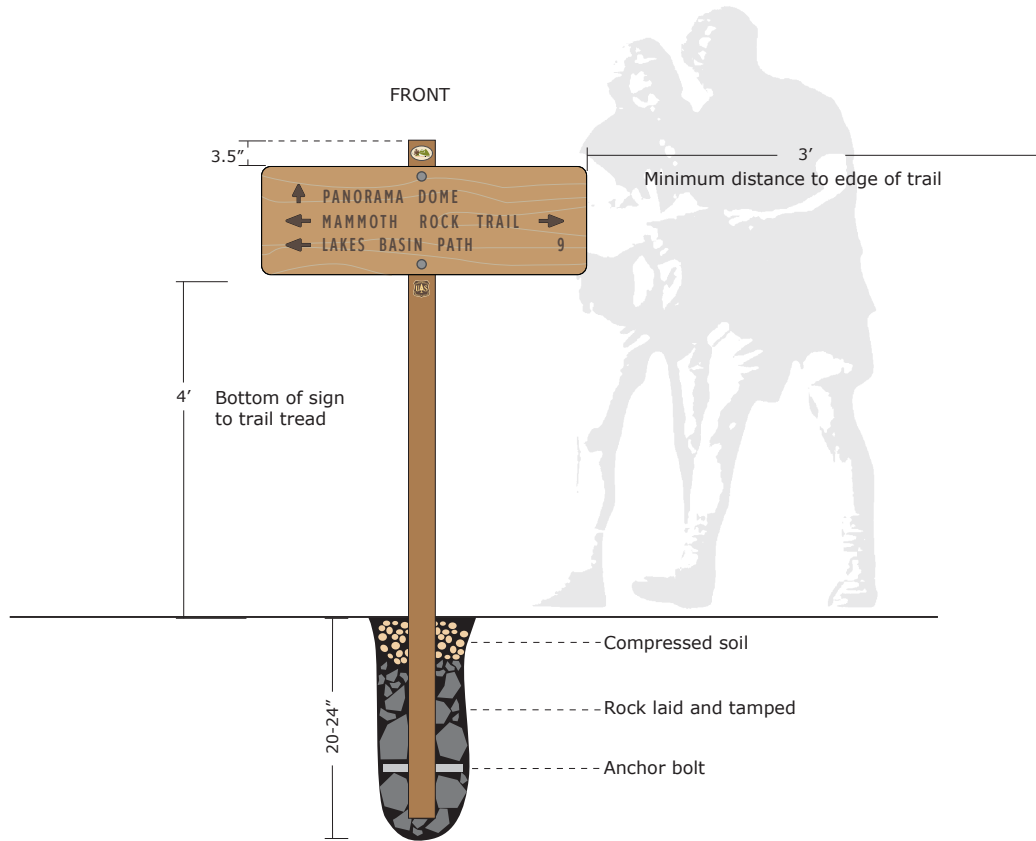
Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Sign Messaging Inventory Example:



Trail Signage Production & Assembly Process - Type 9a/Type 9b July 22, 2018

Sign Installation Specifications Example

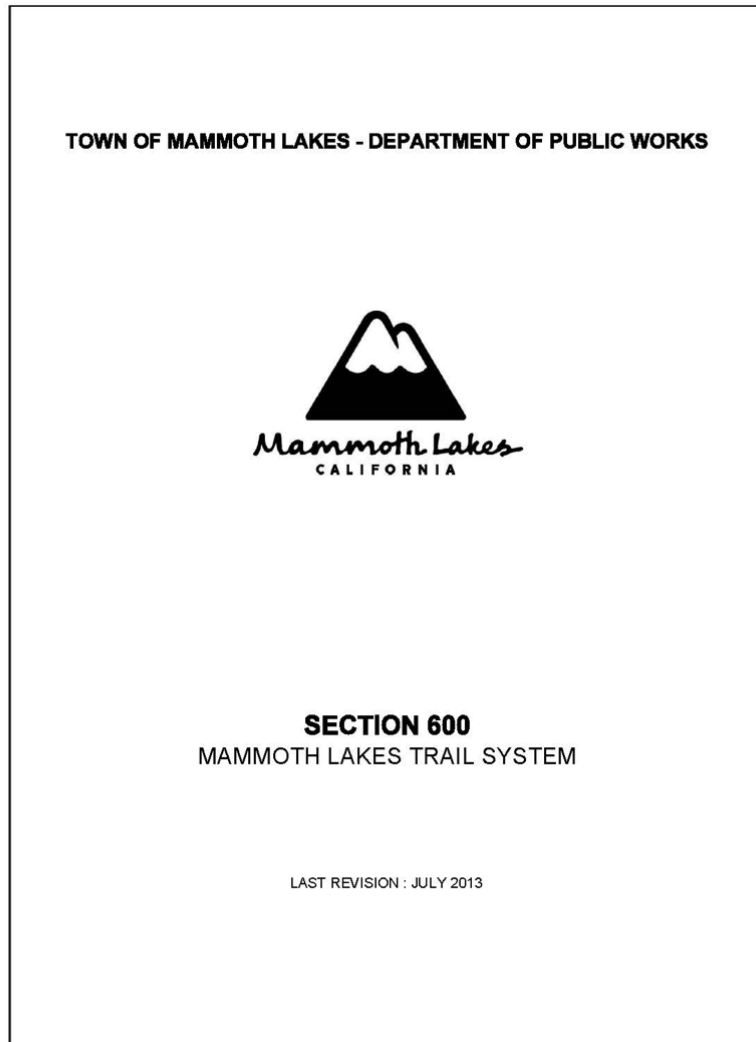


**Trail Signage
Production & Assembly Process - Type 9a/Type 9b
July 22, 2018**

Naming Conventions

“Naming Conventions” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



MAMMOTH LAKES TRAIL SYSTEM NAMING CONVENTIONS

1. THE FOLLOWING SECTION PROVIDES THE OFFICIAL NAMING CONVENTIONS THAT SHALL BE USED IN CONJUNCTION WITH THE MAMMOTH LAKES TRAIL SYSTEM. THIS LIST INCLUDES NAMING CONVENTIONS FOR TRAIL AND DESTINATIONS.

AS OF JANUARY 27, 2012

ANONA LAKE TRAIL	GLADYS LAKE
AIRPORT ROAD	GLASS CREEK
ANSEL ADAMS WILDERNESS	HAMMIL LAKE
ARROWHEAD LAKE	HAYDEN CABIN MUSEUM
BARNEY LAKE	HAYDEN CABIN MUSEUM TRAILHEAD
BARRETT LAKE	HEART LAKE TRAIL
BENTON CROSSING ROAD	HIGH TRAIL
BLOODY LAKE	HIKING TRAIL
BLOODY MOUNTAIN	HORSESHOE LAKE
BOUNDARY CREEK	HORSESHOE LAKE TRAIL
BRIGHT DOT LAKE	HORSESHOE LAKE PICNIC AREA
CAMP HIGH SIERRA	HORSESHOE LAKE TRAILHEAD
CANYON BOULEVARD	HOT CREEK
CANYON LODGE	HOT CREEK ROAD
CECILE LAKE	ICEBERG LAKE
CHATEAU ROAD ACCESS	INYO CRATERS
CLOVERLEAF LAKE	JOHN MUIR TRAIL
COLDWATER CAMPGROUND	JOHN MUIR WILDERNESS
COLDWATER CREEK	KELLEY ROAD
COLDWATER CREEK TRAILHEAD	KING CREEK
COLDWATER - GEORGE TRAIL	KNOLLS LOOP
COMMUNITY CENTER PARK	LAKE DOROTHY
CONVICT CREEK	LAKE GENEVIEVE
CONVICT CREEK TRAIL	LAKE GEORGE
CONVICT LAKE	LAKE GEORGE CAMPGROUND
CONVICT LAKE ROAD	LAKE MAMIE
CRYSTAL CRAG	LAKE MARY
CRYSTAL LAKE	LAKE MARY / POKONOBE
CRYSTAL LAKE TRAIL	LAKE MARY CAMPGROUND
DEADMAN CREEK	LAKE MARY LOOP ROAD
DEADMAN CREEK ROAD	LAKE MARY ROAD
DEER CREEK TRAIL	LAKEFRONT PATH
DEER LAKES	LAKES BASIN PATH
DEER MOUNTAIN	LAKEVIEW BOULEVARD
DEVILS POSTPILE NATIONAL MONUMENT	LAURA LAKE
DUCK LAKE	LAUREL CREEK
DUCK PASS TRAIL	LAUREL LAKES - EDITH LAKE TRAIL
EAGLE LODGE	LAUREL LAKES ROAD
EARTHQUAKE FAULT	LAUREL MOUNTAIN
EDITH LAKE	LAVA TUBE
EDIZA LAKE	LAVA TUBE LOOKOUT
EMERALD LAKE TRAIL	LIBRARY
EMILY LAKE	LIBRARY TRAILHEAD
FERN LAKE	LION POINT TRAIL
FISH CREEK TRAIL	LODESTAR CONNECTOR
FOREST TRAIL	LOIS LAKE
GARNET LAKE	LOOKOUT MOUNTAIN

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



GENERAL

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

612-1

SHEET 1 OF 3

LOWER TWIN LAKE
 MAIN STREET
 MAIN STREET CONNECTOR
 MAJESTIC PINES DRIVE
 MAMMOTH CITY
 MAMMOTH CONSOLIDATED MINE
 MAMMOTH CREEK
 MAMMOTH CREEK PARK
 MAMMOTH CREEK PARK TRAILHEAD
 MAMMOTH CREST
 MAMMOTH CREST TRAIL
 MAMMOTH HOSPITAL
 MAMMOTH LAKES LIBRARY
 MAMMOTH MOUNTAIN
 MAMMOTH MOUNTAIN BIKE PARK
 MAMMOTH MOUNTAIN SKI AREA & BIKE PARK (FEE AREA)
 MAMMOTH MOUNTAIN SKI AREA MAIN LODGE &
 SHUTTLE BUS PARKING
 MAMMOTH MOUNTAIN TRAIL
 MAMMOTH PASS
 MAMMOTH PASS - CRATER MEADOW TRAIL
 MAMMOTH PASS TRAIL
 MAMMOTH ROCK
 MAMMOTH ROCK TRAIL
 MAMMOTH MOUNTAIN RV PARK
 MAMMOTH SCENIC LOOP
 MAMMOTH YOSEMITE AIRPORT
 MCGEE PASS TRAIL
 MCLEOD LAKE
 MERIDIAN BOULEVARD
 MERIDIAN CONNECTOR
 MIDDLE FORK SAN JOAQUIN RIVER
 MILDRED LAKE
 MILL CITY
 MINARET LAKE
 MINARET ROAD
 MINARET VISTA
 MOUNTAIN VIEW TRAIL
 MT. MORRISON
 NEW SHADY REST CAMPGROUND
 NEW SHADY REST TRAILHEAD
 NORTH VILLAGE
 NORTH WATERFORD AVENUE
 NORTH WATERFORD CONNECTOR
 OLAINÉ LAKE
 OLD MAMMOTH ROAD
 OLD MAMMOTH ROAD / MAIN STREET
 OLD MAMMOTH SPUR
 OLD SHADY REST CAMPGROUND
 OWENS RIVER HEADWATERS WILDERNESS
 PACIFIC CREST TRAIL
 PACK STATION
 PANORAMA DOME
 PANORAMA DOME TRAIL
 PANORAMA MOUNTAIN BIKE TRAIL
 PANORAMA MTB TRAILS
 PIKA LAKE
 PIKA LAKE TRAIL

PINE CITY CAMPGROUND
 POKONOBE LODGE
 RAM LAKES
 RAM LAKES TRAIL
 RANGER STATION
 RED'S LAKE
 RIM TRAIL
 RIVER TRAIL
 ROSALIE LAKE
 SAN JOAQUIN RIVER
 SAWMILL CUTOFF ROAD
 SCHOOLS
 SHADOW LAKE
 SHADY REST CAMPGROUND
 SHADY REST PARK
 SHADY REST PARK TRAILHEAD
 SHADY REST PATH
 SHERWIN CREEK
 SHERWIN CREEK CAMPGROUND
 SHERWIN CREEK ROAD
 SHERWIN LAKES
 SHERWIN LAKES TRAIL
 SHERWIN LAKES TRAILHEAD
 SHERWIN STREET
 SHERWINS VISTA
 SHUTTLE BUS ROUTE - RESTRICTED ROAD ACCESS
 SIERRA PARK CONNECTOR
 SIERRA PARK ROAD
 SIERRA STAR GOLF COURSE
 SKELTON LAKE
 SKY MEADOWS TRAIL
 SMOKEY BEAR FLAT
 SNOWCREEK GOLF COURSE
 SNOWCREEK MEADOW
 SOTCHER LAKE
 STARKWEATHER LAKE
 STARKWEATHER TRAIL
 SUPERIOR LAKE TRAIL
 TAMARACK LODGE
 THOUSAND ISLAND LAKE
 TJ LAKE
 TOBACCO FLAT
 TOWN LOOP
 TRAILS END PARK
 TRAIL END PARK TRAILHEAD
 TRANSIT STOP
 TRINITY LAKE
 TWIN FALLS OVERLOOK
 TWIN LAKES
 TWIN LAKES CAMPGROUND
 TWIN LAKES PICNIC AREA
 TWIN LAKES VISTA
 UPPER CRATER MEADOWS TRAIL
 UPPER TWIN LAKE
 UPTOWN / DOWNTOWN MOUNTAIN BIKE TRAILS
 UPTOWN / DOWNTOWN TRAILS
 VALENTINE LAKE
 VALENTINE LAKE TRAIL

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GENERAL

STANDARD PLAN

612-1

SHEET 2 OF 3

PUBLIC WORKS

DIRECTOR APPROVAL:



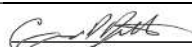
DATE: **May 7, 2014**

WATERFORD AVENUE
WELCOME CENTER
WELCOME CENTER AND RANGER STATION
WELCOME CENTER TRAILHEAD
WHITE WING MOUNTAIN
WHITMORE POOL AND BALLFIELDS
WOODS LAKE TRAIL

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



GENERAL

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

612-1

SHEET 3 OF 3

Naming Conventions

On the following pages are proposed updates for the “Naming Conventions” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.




Naming Conventions

Inventories of naming conventions for use throughout the Mammoth Lakes Trail System are available through the most current version of documents maintained by the Town's Office of Outdoor Recreation. Please contact the Office of Outdoor Recreation for additional information.

Relevant Tools for MLTS "Naming Conventions" Management

- The official naming conventions for facilities on the Mammoth Lakes Trail System are approved by the Town's "Planning and Economic Development Commission (PEDC). The most recent update by the PEDC was approved on April 11, 2018 and is included in this document.
- A sample page of the current internal naming conventions master tracking document is included. For more information contact the Town's Office of Outdoor Recreation.
- A sample page of the current master list for abbreviated naming conventions is also included. For more information contact the Town's Office of Outdoor Recreation.

	Town of Mammoth Lakes Planning & Economic Development Commission Staff Report		
Date:	April 11, 2018	Project:	Mammoth Lakes Trail System Naming Conventions Update
Place:	Council Chambers, 2 nd Floor Minaret Village Shopping Center Mammoth Lakes, CA 93546	Location:	TOML Planning Area
Time:	After 2:00 p.m.	General Plan:	Not applicable
Applicant / Owner:	Town of Mammoth Lakes	Specific Plan:	Not applicable
Environmental Review:	Not applicable	Zoning:	Not applicable
<hr/> TITLE: Mammoth Lakes Trail System Naming Conventions Update <hr/>			
A. EXECUTIVE SUMMARY			
1. Requested Actions			
The Commission is requested to consider an update to the naming conventions list for the Mammoth Lakes Trail System Standards Manual.			
Required Findings to Support Requested Actions			
This report is for informational purposes only, findings are not required.			
2. Report Summary			
The Mammoth Lakes Trail System (MLTS) Standards Manual is used by the Town of Mammoth Lakes in partnership with Inyo National Forest as a set of standards to provide consistency between agencies and stakeholders over time. The Mammoth Lakes Trail System Naming Conventions list which was originally approved by the PEDC as part of Section 600 in the 2014 Town of Mammoth Lakes Public Works Standards (Attachment #2). Staff has prepared an update to the Naming Conventions list (Attachment #1) which includes 11 proposed deletions of unnecessary/outdated naming conventions and correction of one typographical error in the original list. In addition, we propose to add 97 new naming conventions associated with our wayfinding sign programs (both multi-use pathway and soft surface trails), winter recreation programs, and naming conventions previously unaccounted for on the existing mammothtrails.org website.			
<hr/> <i>Report Prepared By:</i> Joel Rathje, Trails Coordinator		<hr/> <i>Report Approved By:</i> Sandra Moberly, Community and Economic Development Director	



Town of Mammoth Lakes Planning & Economic Development Commission Staff Report

Date:	April 11, 2018	Project:	Mammoth Lakes Trail System Naming Conventions Update
Place:	Council Chambers, 2 nd Floor Minaret Village Shopping Center Mammoth Lakes, CA 93546	Location:	TOML Planning Area
Time:	After 2:00 p.m.	General Plan:	Not applicable
Applicant / Owner:	Town of Mammoth Lakes	Specific Plan:	Not applicable
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TITLE: Mammoth Lakes Trail System Naming Conventions Update

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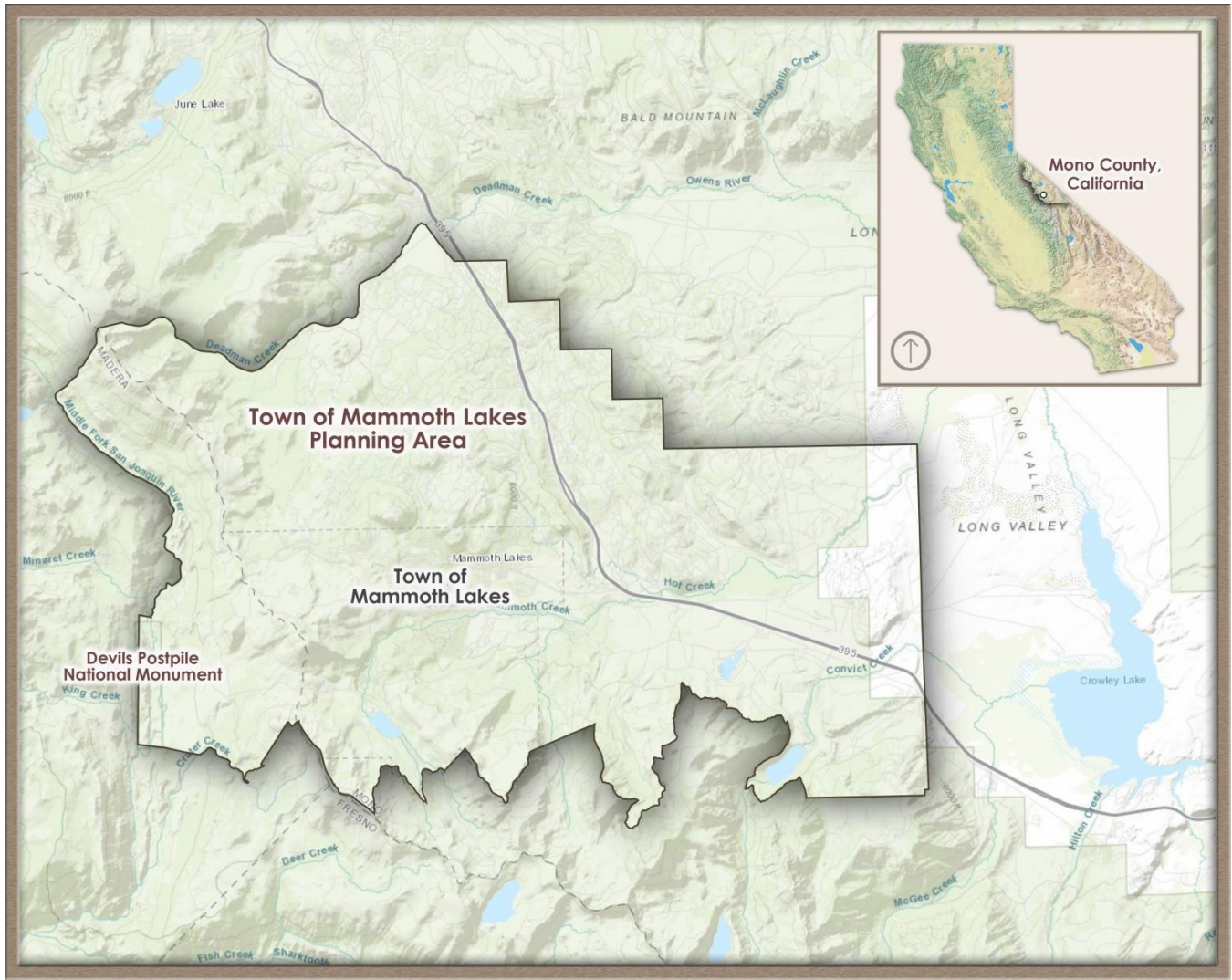
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*Report Prepared By:
Joel Rathje, Trails Coordinator*

*Report Approved By:
Sandra Moberly, Community and
Economic Development Director*

3. Location Map



B. ANALYSIS

1. Background

The Town of Mammoth Lakes Trail System Master Plan contains a set of General Recommendations. General Recommendation #1 is for consistent naming conventions for recreation nodes, paved paths, on-street bikeways, and soft surface trails. The Mammoth Lakes Trail System Naming Conventions list (Attachment #2) was originally compiled in January 27, 2012 and formally adopted as part of TOML Section 600 on May 7, 2014. The update to this list accounts for the recent expansion of the trail system program in 2015-2017 to include new trail construction (two new trails) and a formal signage program for both multi-use pathways (signage for two new pathways) and soft surface trails (over 100 new signs). Updating the Mammoth Lakes Trail System Naming Conventions list is the first step to ensuring an accurate and formal accounting for trail system-related facilities in the Mammoth Lakes Trail System Standards Manual.

2. Next Steps

Upon approval of the updated naming conventions, staff will update the MLTS Standards Manual and will begin using the naming conventions in the field. Staff anticipates that routine updates to the MLTS Standards Manual will continue to occur in the future.

C. RECOMMENDATION

It is recommended that the Planning and Economic Development Commission review the proposed naming convention updates and provide comments as needed.

Attachments

Attachment 1: Section 600

Attachment 2: Updated Naming Conventions



MLTS Naming Conventions Update 2018

Error Correction (1 Correction)

1. TRAIL END PARK TRAILHEAD (Change to "TRAILS")

Proposed Deletions (11 Deleted)

1. EMERALD LAKE TRAIL
2. HORSESHOE LAKE TRAIL
3. MAMMOTH MOUNTAIN SKI AREA & BIKE PARK (FEE AREA)
4. MAMMOTH MOUNTAIN SKI AREA MAIN LODGE & SHUTTLE BUS PARKING
5. PANORAMA MOUNTAIN BIKE TRAIL
6. SCHOOLS
7. SHADY REST CAMPGROUND
8. SHUTTLE BUS ROUTE - RESTRICTED ROAD ACCESS
9. UPTOWN / DOWNTOWN TRAILS
10. UPTOWN / DOWNTOWN MOUNTAIN BIKE TRAILS
11. WHITMORE POOL AND BALLFIELDS

New Naming Conventions (97 Additions)

1. A TRAIL - GROOMED SNOWMOBILE TRAIL
2. AGNEW MEADOW - PUMICE FLAT TRAIL
3. AGNEW MEADOWS
4. AGNEW MEADOWS CAMPGROUND
5. AGNEW MEADOWS ROAD
6. AGNEW WILDFLOWER LOOP
7. ARROWHEAD LAKE TRAIL
8. B TRAIL - GROOMED SNOWMOBILE TRAIL
9. BARRETT LAKE - LAKE MARY TRAIL
10. C TRAIL - GROOMED SNOWMOBILE TRAIL
11. CERRO COSO COMMUNITY COLLEGE
12. COLLEGE
13. COLLEGE PARKWAY TRAILHEAD
14. CONVICT LAKE LOOP
15. D TRAIL - GROOMED SNOWMOBILE TRAIL
16. DOWNTOWN MOUNTAIN BIKE TRAIL
17. DRAGON'S BACK TRAIL
18. DUCK PASS TRAILHEAD
19. EARTHQUAKE FAULT TRAIL
20. EMERALD LAKE
21. EMERALD LAKE – SKELTON LAKE TRAIL
22. EMILY LAKE TRAIL
23. F TRAIL - GROOMED SNOWMOBILE TRAIL
24. G TRAIL - GROOMED SNOWMOBILE TRAIL

25. H TRAIL - GROOMED SNOWMOBILE TRAIL
26. HORSESHOE LAKE LOOP
27. HOSPITAL
28. HOT CREEK TRAIL
29. I TRAIL - GROOMED SNOWMOBILE TRAIL
30. INYO CRATERS TRAIL
31. INYO CRATERS TRAILHEAD
32. K TRAIL - GROOMED SNOWMOBILE TRAIL
33. L TRAIL - GROOMED SNOWMOBILE TRAIL
34. LAKE GEORGE PATH
35. LAKE GEORGE ROAD
36. LAKES BASIN
37. LAUREL LAKES
38. LAVA TUBE TRAIL
39. LAVA TUBE VISTA
40. LIBRARY-COLLEGE CONNECTOR
41. LOWER LAKE MARY LOOP CONNECTOR
42. MAIN LODGE
43. MAMMOTH CREEK CONNECTOR
44. MAMMOTH CREEK OVERLOOK
45. MAMMOTH LAKES
46. MAMMOTH MOUNTAIN – MAMMOTH PASS TRAIL
47. MAMMOTH MOUNTAIN SKI AREA MAIN LODGE
48. MAMMOTH MOUNTAIN SUMMIT
49. MAMMOTH PACK STATION TRAIL
50. MAMMOTH ROCK TRAIL CONNECTOR
51. MCGEE MOUNTAIN
52. MEADOW TRAIL CONNECTOR
53. MILL CITY TRAIL
54. MILL CITY WINTER ACCESS
55. MINARET FALLS CAMPGROUND
56. MINARET VISTA LOOP
57. MINARET VISTA TRAIL
58. MLTS NORDIC TRAIL SYSTEM - SHADY REST
59. NEW SHADY LOOP (NAMING CONVENTION NEEDS SNOW)
60. OLD SHADY LOOP (NAMING CONVENTION NEEDS SNOW)
61. PACKED SINGLETRACK
62. PANORAMA DOME MOUNTAIN BIKE TRAIL
63. PANORAMA DOME TRAILHEAD
64. PANORAMA MOUNTAIN BIKE LOOP
65. PINE CONE CUTOFF (NAMING CONVENTION NEEDS SNOW)
66. PINE GLEN GROUP CAMPGROUND
67. PUMICE BUTTE TRAIL
68. PUMICE FLAT CAMPGROUND
69. PUMICE FLAT GROUP CAMPGROUND
70. RAINBOW FALLS TRAIL
71. RAINBOW FALLS TRAILHEAD
72. RANCH ROAD WINTER EGRESS

73. RED CONES CUTOFF
74. REDS MEADOW CAMPGROUND
75. SEVEN LAKES POINT LOOP
76. SEVEN LAKES POINT VISTA
77. SHADOW CREEK TRAIL
78. SHADY REST WINTER TRAIL
79. SHADY REST WINTER TRAILS NETWORK
80. SHERWIN MEADOWS PATH
81. SHERWIN STREET BRIDGE
82. SHERWINS TRAILHEAD
83. SHERWINS TRAILHEAD WINTER ACCESS (NAMING CONVENTION NEEDS SNOW)
84. SOTCHER LAKE - MAMMOTH PASS TRAIL
85. SOTCHER LAKE FEEDER
86. SOTCHER LAKE LOOP
87. SUMMIT MEADOW - HOLCOMB LAKE CUTOFF
88. TJ LAKE LOOP
89. TWIN LAKES LOOP ROAD
90. UPPER SODA SPRINGS CAMPGROUND
91. UPTOWN MOUNTAIN BIKE TRAIL
92. VILLAGE GONDOLA
93. WHITMORE BALL FIELDS
94. WHITMORE POOL
95. WHITMORE RECREATION AREA
96. WHITMORE TRACK & SPORTS FIELD
97. WINTER ACCESS CORRIDOR - LAKES BASIN

Section 600 Naming Conventions (202 Remain from Original List)

1. AIRPORT ROAD
2. ANONA LAKE TRAIL
3. ANSEL ADAMS WILDERNESS
4. ARROWHEAD LAKE
5. BARNEY LAKE
6. BARRETT LAKE
7. BENTON CROSSING ROAD
8. BLOODY LAKE
9. BLOODY MOUNTAIN
10. BOUNDARY CREEK
11. BRIGHT DOT LAKE
12. CAMP HIGH SIERRA
13. CANYON BOULEVARD
14. CANYON LODGE
15. CECILE LAKE
16. CHATEAU ROAD ACCESS
17. CLOVERLEAF LAKE
18. COLDWATER - GEORGE TRAIL
19. COLDWATER CAMPGROUND

20. COLDWATER CREEK
21. COLDWATER CREEK TRAILHEAD
22. COMMUNITY CENTER PARK
23. CONVICT CREEK
24. CONVICT CREEK TRAIL
25. CONVICT LAKE
26. CONVICT LAKE ROAD
27. CRYSTAL CRAG
28. CRYSTAL LAKE
29. CRYSTAL LAKE TRAIL
30. DEADMAN CREEK
31. DEADMAN CREEK ROAD
32. DEER CREEK TRAIL
33. DEER LAKES
34. DEER MOUNTAIN
35. DEVILS POSTPILE NATIONAL MONUMENT
36. DUCK LAKE
37. DUCK PASS TRAIL
38. EAGLE LODGE
39. EARTHQUAKE FAULT
40. EDITH LAKE
41. EDIZA LAKE
42. EMILY LAKE
43. FERN LAKE
44. FISH CREEK TRAIL
45. FOREST TRAIL
46. GARNET LAKE
47. GLADYS LAKE
48. GLASS CREEK
49. HAMMIL LAKE
50. HAYDEN CABIN MUSEUM
51. HAYDEN CABIN MUSEUM TRAILHEAD
52. HEART LAKE TRAIL
53. HIGH TRAIL
54. HIKING TRAIL
55. HORSESHOE LAKE
56. HORSESHOE LAKE PICNIC AREA
57. HORSESHOE LAKE TRAILHEAD
58. HOT CREEK
59. HOT CREEK ROAD
60. ICEBERG LAKE
61. INYO CRATERS
62. JOHN MUIR TRAIL
63. JOHN MUIR WILDERNESS
64. KELLEY ROAD
65. KING CREEK
66. KNOLLS LOOP
67. LAKE DOROTHY

68. LAKE GENEVIEVE
69. LAKE GEORGE
70. LAKE GEORGE CAMPGROUND
71. LAKE MAMIE
72. LAKE MARY
73. LAKE MARY CAMPGROUND
74. LAKE MARY LOOP ROAD
75. LAKE MARY ROAD
76. LAKEFRONT PATH
77. LAKES BASIN PATH
78. LAKEVIEW BOULEVARD
79. LAURA LAKE
80. LAUREL CREEK
81. LAUREL LAKES - EDITH LAKE TRAIL
82. LAUREL LAKES ROAD
83. LAUREL MOUNTAIN
84. LAVA TUBE
85. LAVA TUBE LOOKOUT
86. LIBRARY
87. LIBRARY TRAILHEAD
88. LION POINT TRAIL
89. LODESTAR CONNECTOR
90. LOIS LAKE
91. LOOKOUT MOUNTAIN
92. LOWER TWIN LAKE
93. MAIN STREET
94. MAIN STREET CONNECTOR
95. MAJESTIC PINES DRIVE
96. MAMMOTH CITY
97. MAMMOTH CONSOLIDATED MINE
98. MAMMOTH CREEK
99. MAMMOTH CREEK PARK
100. MAMMOTH CREEK PARK TRAILHEAD
101. MAMMOTH CREST
102. MAMMOTH CREST TRAIL
103. MAMMOTH HOSPITAL
104. MAMMOTH LAKES LIBRARY
105. MAMMOTH MOUNTAIN
106. MAMMOTH MOUNTAIN BIKE PARK
107. MAMMOTH MOUNTAIN RV PARK
108. MAMMOTH MOUNTAIN TRAIL
109. MAMMOTH PASS
110. MAMMOTH PASS - CRATER MEADOW TRAIL
111. MAMMOTH PASS TRAIL
112. MAMMOTH ROCK
113. MAMMOTH ROCK TRAIL
114. MAMMOTH SCENIC LOOP
115. MAMMOTH YOSEMITE AIRPORT

116. MCGEE PASS TRAIL
117. MCLEOD LAKE
118. MERIDIAN BOULEVARD
119. MERIDIAN CONNECTOR
120. MIDDLE FORK SAN JOAQUIN RIVER
121. MILDRED LAKE
122. MILL CITY
123. MINARET LAKE
124. MINARET ROAD
125. MINARET VISTA
126. MOUNTAIN VIEW TRAIL
127. MT. MORRISON
128. NEW SHADY REST CAMPGROUND
129. NEW SHADY REST TRAILHEAD
130. NORTH VILLAGE
131. NORTH WATERFORD AVENUE
132. NORTH WATERFORD CONNECTOR
133. OLAINÉ LAKE
134. OLD MAMMOTH ROAD
135. OLD MAMMOTH ROAD / MAIN STREET
136. OLD MAMMOTH SPUR
137. OLD SHADY REST CAMPGROUND
138. OWENS RIVER HEADWATERS WILDERNESS
139. PACIFIC CREST TRAIL
140. PACK STATION
141. PANORAMA DOME
142. PANORAMA DOME TRAIL
143. PIKA LAKE
144. PIKA LAKE TRAIL
145. PINE CITY CAMPGROUND
146. POKONOBE LODGE
147. RAM LAKES
148. RAM LAKES TRAIL
149. RANGER STATION
150. RED'S LAKE
151. RIM TRAIL
152. RIVER TRAIL
153. ROSALIE LAKE
154. SAN JOAQUIN RIVER
155. SAWMILL CUTOFF ROAD
156. SHADOW LAKE
157. SHADY REST PARK
158. SHADY REST PARK TRAILHEAD
159. SHADY REST PATH
160. SHERWIN CREEK
161. SHERWIN CREEK CAMPGROUND
162. SHERWIN CREEK ROAD
163. SHERWIN LAKES

164. SHERWIN LAKES TRAIL
165. SHERWIN LAKES TRAILHEAD
166. SHERWIN STREET
167. SHERWINS VISTA
168. SIERRA PARK CONNECTOR
169. SIERRA PARK ROAD
170. SIERRA STAR GOLF COURSE
171. SKELTON LAKE
172. SKY MEADOWS TRAIL
173. SMOKEY BEAR FLAT
174. SNOWCREEK GOLF COURSE
175. SNOWCREEK MEADOW
176. SOTCHER LAKE
177. STARKWEATHER LAKE
178. STARKWEATHER TRAIL
179. SUPERIOR LAKE TRAIL
180. TAMARACK LODGE
181. THOUSAND ISLAND LAKE
182. TJ LAKE
183. TOBACCO FLAT
184. TOWN LOOP
185. TRAILS END PARK
186. TRANSIT STOP
187. TRINITY LAKE
188. TWIN FALLS OVERLOOK
189. TWIN LAKES
190. TWIN LAKES CAMPGROUND
191. TWIN LAKES PICNIC AREA
192. TWIN LAKES VISTA
193. UPPER CRATER MEADOWS TRAIL
194. UPPER TWIN LAKE
195. VALENTINE LAKE
196. VALENTINE LAKE TRAIL
197. WATERFORD AVENUE
198. WELCOME CENTER
199. WELCOME CENTER AND RANGER STATION
200. WELCOME CENTER TRAILHEAD
201. WHITE WING MOUNTAIN
202. WOODS LAKE TRAIL

MAMMOTH LAKES TRAIL SYSTEM NAMING CONVENTIONS

1. THE FOLLOWING SECTION PROVIDES THE OFFICIAL NAMING CONVENTIONS THAT SHALL BE USED IN CONJUNCTION WITH THE MAMMOTH LAKES TRAIL SYSTEM. THIS LIST INCLUDES NAMING CONVENTIONS FOR TRAIL AND DESTINATIONS.

AS OF JANUARY 27, 2012

ANONA LAKE TRAIL	GLADYS LAKE
AIRPORT ROAD	GLASS CREEK
ANSEL ADAMS WILDERNESS	HAMMIL LAKE
ARROWHEAD LAKE	HAYDEN CABIN MUSEUM
BARNEY LAKE	HAYDEN CABIN MUSEUM TRAILHEAD
BARRETT LAKE	HEART LAKE TRAIL
BENTON CROSSING ROAD	HIGH TRAIL
BLOODY LAKE	HIKING TRAIL
BLOODY MOUNTAIN	HORSESHOE LAKE
BOUNDARY CREEK	HORSESHOE LAKE TRAIL
BRIGHT DOT LAKE	HORSESHOE LAKE PICNIC AREA
CAMP HIGH SIERRA	HORSESHOE LAKE TRAILHEAD
CANYON BOULEVARD	HOT CREEK
CANYON LODGE	HOT CREEK ROAD
CECILE LAKE	ICEBERG LAKE
CHATEAU ROAD ACCESS	INYO CRATERS
CLOVERLEAF LAKE	JOHN MUIR TRAIL
COLDWATER CAMPGROUND	JOHN MUIR WILDERNESS
COLDWATER CREEK	KELLEY ROAD
COLDWATER CREEK TRAILHEAD	KING CREEK
COLDWATER - GEORGE TRAIL	KNOLLS LOOP
COMMUNITY CENTER PARK	LAKE DOROTHY
CONVICT CREEK	LAKE GENEVIEVE
CONVICT CREEK TRAIL	LAKE GEORGE
CONVICT LAKE	LAKE GEORGE CAMPGROUND
CONVICT LAKE ROAD	LAKE MAMIE
CRYSTAL CRAG	LAKE MARY
CRYSTAL LAKE	LAKE MARY / POKONOBE
CRYSTAL LAKE TRAIL	LAKE MARY CAMPGROUND
DEADMAN CREEK	LAKE MARY LOOP ROAD
DEADMAN CREEK ROAD	LAKE MARY ROAD
DEER CREEK TRAIL	LAKEFRONT PATH
DEER LAKES	LAKES BASIN PATH
DEER MOUNTAIN	LAKEVIEW BOULEVARD
DEVILS POSTPILE NATIONAL MONUMENT	LAURA LAKE
DUCK LAKE	LAUREL CREEK
DUCK PASS TRAIL	LAUREL LAKES - EDITH LAKE TRAIL
EAGLE LODGE	LAUREL LAKES ROAD
EARTHQUAKE FAULT	LAUREL MOUNTAIN
EDITH LAKE	LAVA TUBE
EDIZA LAKE	LAVA TUBE LOOKOUT
EMERALD LAKE TRAIL	LIBRARY
EMILY LAKE	LIBRARY TRAILHEAD
FERN LAKE	LION POINT TRAIL
FISH CREEK TRAIL	LODESTAR CONNECTOR
FOREST TRAIL	LOIS LAKE
GARNET LAKE	LOOKOUT MOUNTAIN

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



GENERAL

PUBLIC WORKS
DIRECTOR APPROVAL: *[Signature]*

DATE: **May 7, 2014**

STANDARD PLAN

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SHEET 1 OF 3

LOWER TWIN LAKE
 MAIN STREET
 MAIN STREET CONNECTOR
 MAJESTIC PINES DRIVE
 MAMMOTH CITY
 MAMMOTH CONSOLIDATED MINE
 MAMMOTH CREEK
 MAMMOTH CREEK PARK
 MAMMOTH CREEK PARK TRAILHEAD
 MAMMOTH CREST
 MAMMOTH CREST TRAIL
 MAMMOTH HOSPITAL
 MAMMOTH LAKES LIBRARY
 MAMMOTH MOUNTAIN
 MAMMOTH MOUNTAIN BIKE PARK
 MAMMOTH MOUNTAIN SKI AREA & BIKE PARK (FEE AREA)
 MAMMOTH MOUNTAIN SKI AREA MAIN LODGE &
 SHUTTLE BUS PARKING
 MAMMOTH MOUNTAIN TRAIL
 MAMMOTH PASS
 MAMMOTH PASS - CRATER MEADOW TRAIL
 MAMMOTH PASS TRAIL
 MAMMOTH ROCK
 MAMMOTH ROCK TRAIL
 MAMMOTH MOUNTAIN RV PARK
 MAMMOTH SCENIC LOOP
 MAMMOTH YOSEMITE AIRPORT
 MCGEE PASS TRAIL
 MCLEOD LAKE
 MERIDIAN BOULEVARD
 MERIDIAN CONNECTOR
 MIDDLE FORK SAN JOAQUIN RIVER
 MILDRED LAKE
 MILL CITY
 MINARET LAKE
 MINARET ROAD
 MINARET VISTA
 MOUNTAIN VIEW TRAIL
 MT. MORRISON
 NEW SHADY REST CAMPGROUND
 NEW SHADY REST TRAILHEAD
 NORTH VILLAGE
 NORTH WATERFORD AVENUE
 NORTH WATERFORD CONNECTOR
 OLAINÉ LAKE
 OLD MAMMOTH ROAD
 OLD MAMMOTH ROAD / MAIN STREET
 OLD MAMMOTH SPUR
 OLD SHADY REST CAMPGROUND
 OWENS RIVER HEADWATERS WILDERNESS
 PACIFIC CREST TRAIL
 PACK STATION
 PANORAMA DOME
 PANORAMA DOME TRAIL
 PANORAMA MOUNTAIN BIKE TRAIL
 PANORAMA MTB TRAILS
 PIKA LAKE
 PIKA LAKE TRAIL

PINE CITY CAMPGROUND
 POKONOBE LODGE
 RAM LAKES
 RAM LAKES TRAIL
 RANGER STATION
 RED'S LAKE
 RIM TRAIL
 RIVER TRAIL
 ROSALIE LAKE
 SAN JOAQUIN RIVER
 SAWMILL CUTOFF ROAD
 SCHOOLS
 SHADOW LAKE
 SHADY REST CAMPGROUND
 SHADY REST PARK
 SHADY REST PARK TRAILHEAD
 SHADY REST PATH
 SHERWIN CREEK
 SHERWIN CREEK CAMPGROUND
 SHERWIN CREEK ROAD
 SHERWIN LAKES
 SHERWIN LAKES TRAIL
 SHERWIN LAKES TRAILHEAD
 SHERWIN STREET
 SHERWINS VISTA
 SHUTTLE BUS ROUTE - RESTRICTED ROAD ACCESS
 SIERRA PARK CONNECTOR
 SIERRA PARK ROAD
 SIERRA STAR GOLF COURSE
 SKELTON LAKE
 SKY MEADOWS TRAIL
 SMOKEY BEAR FLAT
 SNOWCREEK GOLF COURSE
 SNOWCREEK MEADOW
 SOTCHER LAKE
 STARKWEATHER LAKE
 STARKWEATHER TRAIL
 SUPERIOR LAKE TRAIL
 TAMARACK LODGE
 THOUSAND ISLAND LAKE
 TJ LAKE
 TOBACCO FLAT
 TOWN LOOP
 TRAILS END PARK
 TRAIL END PARK TRAILHEAD
 TRANSIT STOP
 TRINITY LAKE
 TWIN FALLS OVERLOOK
 TWIN LAKES
 TWIN LAKES CAMPGROUND
 TWIN LAKES PICNIC AREA
 TWIN LAKES VISTA
 UPPER CRATER MEADOWS TRAIL
 UPPER TWIN LAKE
 UPTOWN / DOWNTOWN MOUNTAIN BIKE TRAILS
 UPTOWN / DOWNTOWN TRAILS
 VALENTINE LAKE
 VALENTINE LAKE TRAIL

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS

GENERAL

STANDARD PLAN

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SHEET 2 OF 3

PUBLIC WORKS

DIRECTOR APPROVAL:



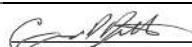
DATE: **May 7, 2014**

WATERFORD AVENUE
WELCOME CENTER
WELCOME CENTER AND RANGER STATION
WELCOME CENTER TRAILHEAD
WHITE WING MOUNTAIN
WHITMORE POOL AND BALLFIELDS
WOODS LAKE TRAIL

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



GENERAL

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

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MLTS Naming Conventions

Tracking List

Last updated April 14, 2023

Naming Convention	Status	Approval Document	Category	Abbreviation
A TRAIL - GROOMED SNOWMOBILE TRAIL	Officially Approved	PEDC Update - 2018	Winter Trail	N/A
AGNEW MEADOW - PUMICE FLAT TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	N/A
AGNEW MEADOWS	Officially Approved	PEDC Update - 2018	Destination	N/A
AGNEW MEADOWS CAMPGROUND	Officially Approved	PEDC Update - 2018	Destination	N/A
AGNEW MEADOWS ROAD	Officially Approved	PEDC Update - 2018	Destination	N/A
AGNEW WILDFLOWER LOOP	Officially Approved	PEDC Update - 2018	SS Trail	N/A
AIRPORT ROAD	Officially Approved	Section 600 - 2012	Road	N/A
ANONA LAKE TRAIL	Officially Approved	Section 600 - 2012	SS Trail	N/A
ANSEL ADAMS WILDERNESS	Officially Approved	Section 600 - 2012	Destination	N/A
ARROWHEAD LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
ARROWHEAD LAKE TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	N/A
B TRAIL - GROOMED SNOWMOBILE TRAIL	Officially Approved	PEDC Update - 2018	Winter Trail	N/A
BARNEY LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
BARRETT LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
BARRETT LAKE - LAKE MARY TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	N/A
BENTON CROSSING ROAD	Officially Approved	Section 600 - 2012	Destination	N/A
BLOODY LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
BLOODY MOUNTAIN	Officially Approved	Section 600 - 2012	Destination	N/A
BOUNDARY CREEK	Officially Approved	Section 600 - 2012	Destination	N/A
BRIGHT DOT LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
C TRAIL - GROOMED SNOWMOBILE TRAIL	Officially Approved	PEDC Update - 2018	Winter Trail	N/A
CAMP HIGH SIERRA	Officially Approved	Section 600 - 2012	Destination	N/A
CANYON BOULEVARD	Officially Approved	Section 600 - 2012	Destination	N/A
CANYON LODGE	Officially Approved	Section 600 - 2012	Destination	N/A
CECILE LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
CERRO COSO COMMUNITY COLLEGE	Officially Approved	PEDC Update - 2018	Destination	N/A
CHATEAU ROAD ACCESS	Officially Approved	Section 600 - 2012	Destination	N/A
CLOVERLEAF LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
COLDWATER - GEORGE TRAIL	Officially Approved	Section 600 - 2012	SS Trail	N/A
COLDWATER CAMPGROUND	Officially Approved	Section 600 - 2012	Destination	N/A
COLDWATER CREEK	Officially Approved	Section 600 - 2012	Destination	N/A
COLDWATER CREEK TRAILHEAD	Officially Approved	Section 600 - 2012	Destination	N/A
COLLEGE	Officially Approved	PEDC Update - 2018	Destination	N/A
COLLEGE PARKWAY TRAILHEAD	Officially Approved	PEDC Update - 2018	Destination	N/A
COMMUNITY CENTER PARK	Officially Approved	Section 600 - 2012	Destination	N/A
CONVICT CREEK	Officially Approved	Section 600 - 2012	Destination	N/A
CONVICT CREEK TRAIL	Officially Approved	Section 600 - 2012	SS Trail	N/A
CONVICT LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
CONVICT LAKE LOOP	Officially Approved	PEDC Update - 2018	SS Trail	N/A
CONVICT LAKE ROAD	Officially Approved	Section 600 - 2012	Destination	N/A
CRYSTAL CRAG	Officially Approved	Section 600 - 2012	Destination	N/A
CRYSTAL LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
CRYSTAL LAKE TRAIL	Officially Approved	Section 600 - 2012	SS Trail	CLT
D TRAIL - GROOMED SNOWMOBILE TRAIL	Officially Approved	PEDC Update - 2018	Winter Trail	N/A
DEADMAN CREEK	Officially Approved	Section 600 - 2012	Destination	N/A
DEADMAN CREEK ROAD	Officially Approved	Section 600 - 2012	Destination	N/A
DEER CREEK TRAIL	Officially Approved	Section 600 - 2012	SS Trail	N/A
DEER LAKES	Officially Approved	Section 600 - 2012	Destination	N/A
DEER MOUNTAIN	Officially Approved	Section 600 - 2012	Destination	N/A
DEVILS POSTPILE NATIONAL MONUMENT	Officially Approved	Section 600 - 2012	Destination	N/A
DOWNTOWN MOUNTAIN BIKE TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	DMB
DRAGON'S BACK TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	N/A
DUCK LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
DUCK PASS TRAIL	Officially Approved	Section 600 - 2012	SS Trail	DPT
DUCK PASS TRAILHEAD	Officially Approved	PEDC Update - 2018	Destination	N/A
EAGLE LODGE	Officially Approved	Section 600 - 2012	Destination	ELA (EGL)
EARTHQUAKE FAULT	Officially Approved	Section 600 - 2012	Destination	N/A
EARTHQUAKE FAULT TRAIL	Officially Approved	PEDC Update - 2018	SS Trail	N/A
EDITH LAKE	Officially Approved	Section 600 - 2012	Destination	N/A
EDIZA LAKE	Officially Approved	Section 600 - 2012	Destination	N/A

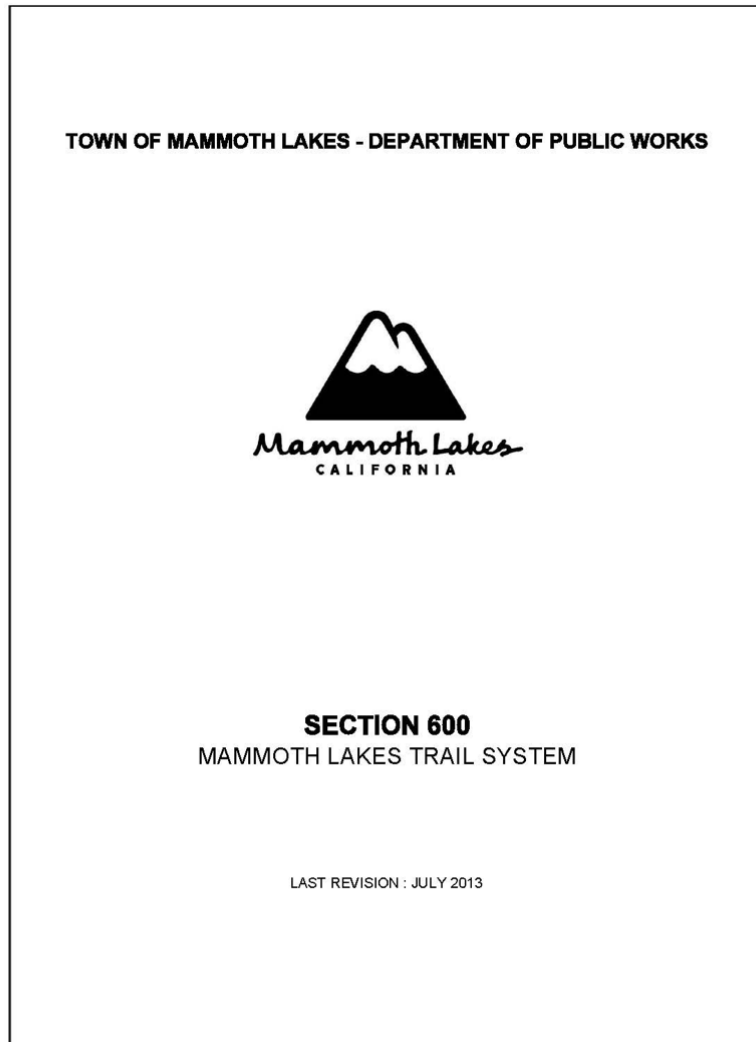
**MLTS Naming Conventions
Abbreviations Tracking List
Last updated April 14, 2023**

Name	Abbrv	Signage System
Underpass Connector	203	HS
Broad View (Overlook)	BDV	HS
Chateau Connector	CTC	HS
Horseshoe Lake Parking Lot	HLP	HS
Lake Front Connector	LFC	HS
Lake Front Path	LFP	HS
Lower (Lake Mary) Loop Connection	LLC	HS
Mammoth Welcome Center	MWC	HS/MS
North Main Connector	NMC	HS
Old Mammoth Connector	OMC	HS
Pokenobe Lodge	POK	HS
Twin Lakes Parking Lot	TLP	HS
Trail End Neighborhood Connector	TNC	HS
Upper (Lake Mary) Loop Connector	ULC	HS
Highway 203	203	MS
Coldwater-George Trail	CGT	SS
Canyon Blvd	CNB	MS
Dragon's Back Trail	DBT	SS
Hillside Drive	HLD	MS
Meridian Bike Path Connector	MBC	HS
Minaret Vista Connector	MIC	SS
Minaret Road (?)	MIN	SS
McLeod Lake Spur	MLS	SS
McLeod Lake Use Trail	MLU	SS
Mammoth Mountain-Mammoth Pass Trail	MMM	SS
Mammoth Pass-Crater Meadow Trail	MPC	SS
Meridian Blvd	MRB	MS
Mountain View Connector	MVC	SS
Old Mammoth Spur (?)	OMS	HS
Reds Meadow Road	RMR	MS
Town Loop (?)	TTL	HS
Uptown Downtown Connector	UDC	SS
Uptown Mountain Bike Trail	UMB	SS
Twin Lakes Loop Road	TLR	MS
Twin Lakes Campground	TLC	HS
Trails End Park	TEP	HS
Town Loop	TML (TLT)	HS

Appendix A - Signage Process

“Appendix A - Signage Process” from Section 600 of the Town of Mammoth Lakes Public Works Department’s “Standards Manual” was adopted and last revised in July of 2013.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



APPENDIX A

STANDARD PROCESS FOR "HOW TO SIGN THE MLTS"

CRITICAL DOCUMENTS

1. TRAIL ABBREVIATION CODE
2. NAMING CONVENTIONS
3. DESTINATIONS
4. PRIMARY I.D.
5. PRIMARY I.D. CLARIFIER
6. DESTINATIONS/SYMOLOGY RELATIONSHIP
7. DESIGN INTENT
8. TRAIL USAGE TEXT DOCUMENT (INCLUDES CHARACTER COUNT)
9. ARROW PRIORITY
10. MAP STANDARDS

PROCESS

1. IDENTIFY SIGN LOCATION(S)
2. ASSIGN SIGN # (EX. FACILITY MILEAGE)
3. DETERMINE SIGN TYPE USING SIGN SPACING AND LOCATION STANDARDS
4. DETERMINE SIGN TYPE SCENARIO
5. DEVELOP MESSAGING (DEPENDING ON SIGN TYPE)

TYPE 2 MESSAGING

1. DETERMINE PRIMARY I.D. - SEE NAMING CONVENTION
2. DETERMINE PRIMARY I.D. CLARIFIER - SEE NAMING CONVENTION
3. DETERMINE RESCUE LOCATOR - SEE NAMING CONVENTION
4. DETERMINE PLAQUES - DEPENDENT UPON LOCATION AND JURISDICTION
5. DETERMINE SIGN ORIENTATION
6. DETERMINE WHICH FONT MAP TO APPLY
7. APPLY STANDARD RECREATION SYMBOLS OF HIKE, BIKE, AND DOG
8. DEVELOP WELCOME MESSAGE FOR FACILITY
9. LOGIC: WELCOME TO THE (FACILITY)
10. DEVELOP PRIMARY I.D. MESSAGE (DEPENDENT UPON LOCATION ALONG THE FACILITY)
11. LOGIC: TOTAL MILEAGE + FACILITY TYPE + DESTINATIONS + DIFFICULTY + ELEVATION
12. DEVELOP "YOU ARE HERE" MESSAGE
13. LOGIC: PRIMARY I.D. + PRIMARY I.D. CLARIFIER
14. APPLY STANDARD ETHICS MESSAGING

TYPE 2 MAPPING

1. DETERMINE APPROPRIATE SUB-REGION MAP
2. CONSULT MAP STANDARDS
3. INSERT MAP LEGEND TRAIL DESCRIPTIONS
4. LOGIC: FACILITY + DIFFICULTY (56 CHARACTER LIMIT)(MOVE TO MAP STANDARDS)
5. DEVELOP UNIQUE QR CODE FOR FRONT SIDE MAP
6. CONSULT SCREW HOLE PLACEMENT IN DESIGN INTENT (MOVE TO MAP STANDARDS)

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



APPENDIX

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: May 7, 2014

STANDARD PLAN

614-1

SHEET 1 OF 2

TYPE 4/6 MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. SELECT UP TO THREE SERVICE SYMBOLS PER DESTINATION
4. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN TENTHS USING CONVENTIONAL ROUNDING
5. DETERMINE DESTINATIONS ORDER BASED ON ARROW PRIORITY
7. DETERMINE RESCUE LOCATOR
8. DETERMINE ORIENTATION OF PANEL.

TYPE 4/6 MAPPING

1. CONSULT MAP STANDARDS
2. DETERMINE EXTENTS AND ORIENTATION
3. DESTINATIONS DISPLAYED MUST MATCH SIGN MESSAGING
4. CONSULT SCREW HOLE PLACEMENT IN DESIGN INTENT (MOVE TO MAP STANDARDS)
5. DEVELOP "YOU ARE HERE" MESSAGE

TYPE 6 MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. SELECT UP TO THREE SERVICE SYMBOLS PER DESTINATION
4. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN TENTHS USING CONVENTIONAL ROUNDING
5. DETERMINE DESTINATIONS ORDER BASED ON ARROW PRIORITY
7. DETERMINE RESCUE LOCATOR
8. DETERMINE ORIENTATION.

TYPE 6a MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN HUNDREDTHS USING CONVENTIONAL ROUNDING
4. DETERMINE RESCUE LOCATOR
5. DETERMINE ORIENTATION.

TOWN OF MAMMOTH LAKES - DEPARTMENT OF PUBLIC WORKS



APPENDIX

PUBLIC WORKS
DIRECTOR APPROVAL: 

DATE: **May 7, 2014**

STANDARD PLAN

614-1

SHEET 2 OF 2

Appendix A

On the following pages are proposed updates for the “Appendix A” sheets of the Town of Mammoth Lakes Public Works Department’s “Standards Manual - Section 600.” These proposed updates are maintained by the Town’s Office of Outdoor Recreation and are currently being deployed on the Mammoth Lakes Trail System.

For more information on the Mammoth Lakes Trail System and the Town’s Office of Outdoor Recreation, please contact the Town of Mammoth Lakes Office of Outdoor Recreation at Ireif@townofmammothlakes.ca.gov.



Appendix A: Standard Process for “How to Sign the MLTS”

Recommendations and Document Guide: October 3, 2023

CRITICAL DOCUMENTS GUIDE

1. TRAIL ABBREVIATION CODE

- The Excel Workbook “115_05_NamingConventionsMaster_230414” has the current list of Trail Abbreviations. It is located in 612-1 Naming Conventions.

2. NAMING CONVENTIONS

- The Excel Workbook “115_05_NamingConventionsMaster_230414” has the current list of Naming Conventions. It is located in 612-1 Naming Conventions. Section 600 has an outdated list. PEDC updated the list of destinations in 2018. There have been names added to the list since 2018 that could be submitted for approval by PEDC.

3. DESTINATIONS

- These are the same list as the Naming Conventions list above.

4. PRIMARY I.D.

- This is the name of the trail the sign is located on. It comes from the Naming Conventions list above.

5. PRIMARY I.D. CLARIFIER

- This is the name of the sign’s specific location. It is also from the Naming Conventions list above.

6. DESTINATIONS/SYMOLOGY RELATIONSHIP

- See the Word document “115_05_MLTPA Symbology_190329”.

7. DESIGN INTENT

- See the Multi-Use Pathway and Soft Surface Design Intents.

8. TRAIL USAGE TEXT DOCUMENT (INCLUDES CHARACTER COUNT)

- This information is in the sign folder for each individual sign type in a Word document titled “115_05_Type xx Msg Stnd_date”.

9. ARROW PRIORITY

- See the Word document “115_05_MLTPA Symbology_190329”

10. MAP STANDARDS

- See the Word document “052_09 SIGN UPDATE FILE WORKFLOW KP_2019”.

PROCESS

1. IDENTIFY SIGN LOCATION(S)

- See 601-1 Sign Spacing and Location for details.

2. ASSIGN SIGN # (EX. FACILITY MILEAGE)

- Precise method TBD.

3. DETERMINE SIGN TYPE USING SIGN SPACING AND LOCATION STANDARDS

- See 601-1 Sign Spacing and Location for details.

4. DETERMINE SIGN TYPE SCENARIO

- See 601-1 Sign Spacing and Location for details.

5. DEVELOP MESSAGING (DEPENDING ON SIGN TYPE)

- This information is in the sign folder for each individual sign type in a Word document titled “115_05_Type xx Msg Stnd_date”.

- *** Add a section about the workflow between the TOML and MLTPA for sign development.

- Who initiates the need for a new or replacement sign?

- Who handles the location and messaging development?
- Who handles graphics?
- Who handles printing?
- Installation?
- Record keeping in GIS and the Excel workbook.

TYPE 2 MESSAGING

1. DETERMINE PRIMARY I.D. - SEE NAMING CONVENTION
2. DETERMINE PRIMARY I.D. CLARIFIER - SEE NAMING CONVENTION
3. DETERMINE RESCUE LOCATOR - SEE NAMING CONVENTION
4. DETERMINE PLAQUES - DEPENDENT UPON LOCATION AND JURISDICTION
5. DETERMINE SIGN ORIENTATION
6. DETERMINE WHICH FONT MAP TO APPLY
7. APPLY STANDARD RECREATION SYMBOLS OF HIKE, BIKE, AND DOG
8. DEVELOP WELCOME MESSAGE FOR FACILITY
 - a. LOGIC: WELCOME TO THE (FACILITY)
9. DEVELOP PRIMARY I.D. MESSAGE (DEPENDENT UPON LOCATION ALONG THE FACILITY)
 - a. LOGIC: TOTAL MILEAGE + FACILITY TYPE + DESTINATIONS + DIFFICULTY + ELEVATION
10. DEVELOP "YOU ARE HERE" MESSAGE
 - a. LOGIC: PRIMARY I.D. + PRIMARY I.D. CLARIFIER
11. APPLY STANDARD ETHICS MESSAGING

TYPE 2 MAPPING

1. DETERMINE APPROPRIATE SUB-REGION MAP
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TYPE 4/6 MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. SELECT UP TO THREE SERVICE SYMBOLS PER DESTINATION
4. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN TENTHS USING
 1. CONVENTIONAL ROUNDING
 5. DETERMINE DESTINATIONS ORDER BASED ON ARROW PRIORITY
 6. DETERMINE RESCUE LOCATOR
 7. DETERMINE ORIENTATION OF PANEL.

TYPE 4/6 MAPPING

1. CONSULT MAP STANDARDS
2. DETERMINE EXTENTS AND ORIENTATION
3. DESTINATIONS DISPLAYED MUST MATCH SIGN MESSAGING
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TYPE 6 MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. SELECT UP TO THREE SERVICE SYMBOLS PER DESTINATION
4. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN TENTHS USING
 1. CONVENTIONAL ROUNDING
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6. DETERMINE RESCUE LOCATOR
7. DETERMINE ORIENTATION.

TYPE 6a MESSAGING

1. DETERMINE SIGN TYPE SCENARIO
2. DETERMINE APPROPRIATE DESTINATIONS USING NAMING CONVENTIONS
3. DETERMINE MILEAGE TO DESTINATIONS - MILEAGE IS REPRESENTED IN HUNDREDTHS
 1. USING CONVENTIONAL ROUNDING
4. DETERMINE RESCUE LOCATOR
5. DETERMINE ORIENTATION.