



## Fall 2015 – Draft Report

Alignment Proposals for the Inyo National Forest and the Town of Mammoth

- LABSS ID# 01
- LABSS ID# 03
- LABSS ID# 04
- LABSS ID# 09a

December 28, 2015





Fall 2015 – Draft Report

Alignment Proposals for the Inyo National Forest and the Town of Mammoth

LABSS ID #01

November 9, 2015





**Map ID# 01 Key Agreements  
As of November 09, 2015**

**DRAFT**

- A. Alignment:** This trail is intended to be formalized as a USFS system trail from the Lake George Trailhead to the Dike Wall geologic feature.
- 1. Trailhead and Destination(s):** Lake George Trailhead and the Dike Wall geologic feature.
  - 2. Naming:** Dike Wall Trail
  - 3. Control Points/Narrative:** **TBD**
- B. Design Specifications:**
- 1. Trail Type:** Type 1 (route only; narrow trail or route; narrow single-file travel. See Chapter 6.6 Soft-Surface Trail Design Guidelines from TSMP)
  - 2. Users:** Climbers, day hikers, and geologists.
  - 3. Width:** See "Trail Type."
  - 4. Grade:** See "Trail Type."
  - 5. Surface:** Soft-surface. See "Trail Type."
  - 6. Features:** **TBD**
  - 7. User Experience/Aesthetics:** This trail is intended to be a primitive and more isolated user experience than other nearby trails in the Lakes Basin. The Dike Wall Trail will provide a challenging route for climbers, day hikers, and geologists to hike from the Lake George Trailhead to the Dike Wall geologic feature. Signage and amenities will be kept at a minimum past the Lake George Trailhead to protect the primitive character of the area.
  - 8. Trail Amenities:** **TBD**
- C. Winter/Summer Interface:** None.
- D. Signage and Wayfinding Special Considerations:** Signage and wayfinding will need to be established at the Lake George Trailhead which will need to be formalized as well. There are opportunities for interpretive signage at the Lake George Trailhead. On the proposed trail itself, minimal signage consistent with the "MLTS Soft-Surface Trail Guidelines," will be installed at the trail junction between the Dike Wall Trail and the proposed Lake George Trail. Minimal signage should be installed at the end of the trail upon arrival at the Dike Wall geologic feature.

**TO BE COMPLETED BY AGENCIES/JURISDICTIONS**

- A. Environmental Review**
- B. Construction & Maintenance**
- C. Funding Considerations & Ownership**
- D. Construction Cost Estimator**



- a. Total linear feet of new trail construction:
  - b. Total estimated cost per linear foot:
  - c. Rehabilitation cost estimate:
  - d. First-guess cost estimate:
    - i. Preferred Alignment:
    - ii. Alternative alignment:
- E. Other Special Considerations



LABSS TTC: Map ID #1  
CONCEPT: Dike Wall Trail:  
Develop an official trail from the Lake George staging area to the "Dike Wall" rock climbing area to discourage the development of multiple user-created trails.  
See The Lakes Basin Special Study (LABSS) for concept.  
Map Draft Date 11/20/15

- LABSS TTC Trail Alignments
- LABSS Proposed Trails
- INF Trails
- Centerlines
- 10ft Contours
- Contour Line, Major
- Contour Line, Minor
- Contour Line, Intermediate

LABSS TTC

- The LABSS TTC is committed to staying true to the original wording and intent of the LABSS proposals, as crafted by the LABSS Working Group, and will therefore not revisit or revise any part of any recommendation unless warranted by agency sideboards or other opportunities or constraints as identified by land management agencies such as the INF.
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## Project Cover Sheet: Map ID # 01

<b>LABSS CONCEPT</b>	Dike Wall Trail: Develop an official trail from the proposed" Lake George Trail to the "Dike Wall" rock-climbing area to discourage the development of multiple user-created trails.	
<b>LABSS RATIONALE</b>	TBD	
<b>RELATED PROJECTS</b>	LABSS project ID #04 - See LABSS Executive Summary for details. LABSS project ID #03 - See LABSS Executive Summary for details. LABSS project ID #09a - See LABSS Executive Summary for details.	
<b>WORKFLOW CHECKLIST TASK</b>	<b>DATE COMPLETED</b>	
Group overview in-house meeting to present work plan and desired deliverables	29-Oct-15	
Group overview field trip and technical analysis in-house	TBD	
Drafting/staking	TBD	
Technical review field trip	TBD	
Draft revision	TBD	
Final review meeting	TBD	
Presentation to USFS	TBD	
<b>AGENCY SIDEBORDS</b>	Further consultation necessary.	
<b>DESIRED OUTSIDE PARTICIPANTS</b>	Town of Mammoth Lakes, Inyo National Forest, Permit Holders in the Immediate Area.	
<b>ENVIRONMENTAL</b>	TBD	
<b>OTHER NOTES</b>	TBD	
<b>PARTICIPANTS</b>	Joel Rathje (MLTS Coordinator); Rich Boccia (MLR Executive Director); Kelly Workman (MLTPA Staff); John Wentworth (MLTPA Board); David Page (MT Committee); Alan Jacoby (MT Committee)	



## Fall 2015 – Draft Report

Alignment Proposals for the Inyo National Forest and the Town of Mammoth

LABSS ID #03

December 28, 2015





**Map ID# 03 Key Agreements  
As of December 28, 2015**

**DRAFT**

- A. Alignment:** This trail is meant to be the official connector trail from the Lake George Campground to Lake George.
- 1. Trailhead and Destination(s):** Lake George Campground and Lake George.
  - 2. Naming:** TBD
  - 3. Control Points/Narrative:** TBD
- B. Design Specifications:**
- 1. Trail Type:** Type 2 (preferred hike; tread narrow—less than 36 inches; minimal allowance for passing. See Chapter 6.6 “Soft-Surface Trail Design Guidelines” from TSMP)
  - 2. Users:** Campers, day hikers, and fishermen.
  - 3. Width:** See “Trail Type.”
  - 4. Grade:** See “Trail Type.”
  - 5. Surface:** Soft-surface. See “Trail Type.”
  - 6. Features:** TBD
  - 7. User Experience/Aesthetics:** This trail is intended to provide an easy, well-defined trail from the Lake George Campground to Lake George. More than one designated trail from the campground to the lake may be needed due to the abundance of user trails and popular access points around the campground. An additional site visit is needed to determine the best alignment of the trail(s).
  - 8. Trail Amenities:** TBD
- C. Winter/Summer Interface:** None.
- D. Signage and Wayfinding Special Considerations:** Signage should be prevalent enough to easily identify the trail(s) to potential users, but not detract from the natural and rustic setting around campground. Minimal signage will need to be installed consistent with the “MLTS Soft-Surface Trail Guidelines” in the *Town of Mammoth Lakes Trail System Master Plan (2009)*.

**TO BE COMPLETED BY AGENCIES/JURISDICTIONS**

- A. Environmental Review:** TBD
- B. Construction & Maintenance:** TBD
- C. Funding Considerations & Ownership:** TBD
- D. Construction Cost Estimator:** TBD
- a. Total linear feet of new trail construction:** TBD
  - b. Total estimated cost per linear foot:** TBD
  - c. Rehabilitation cost estimate:** TBD
  - d. First-guess cost estimate:** TBD









- i. Preferred Alignment: **TBD**
- ii. Alternative alignment: **TBD**

E. Other Special Considerations: **TBD**



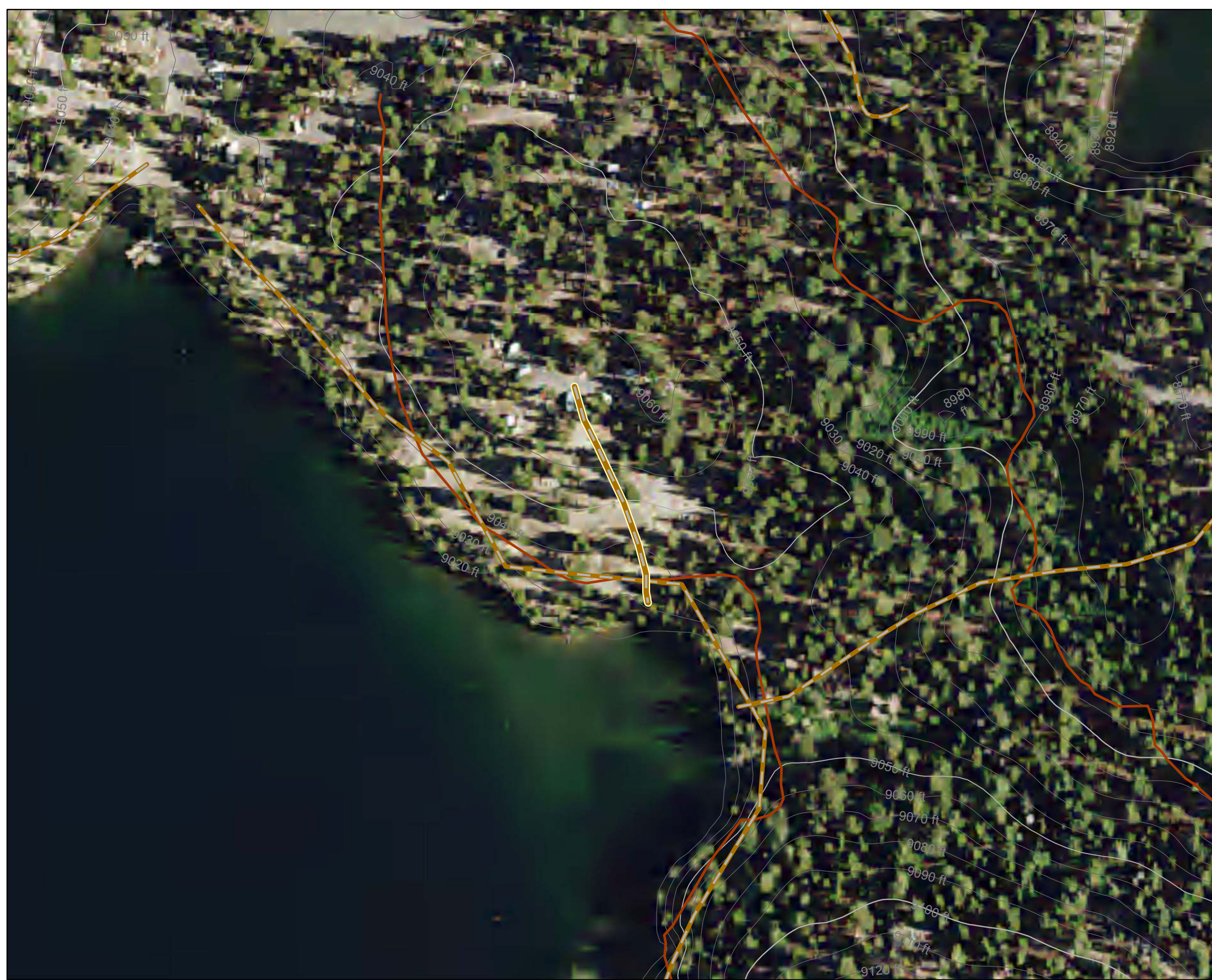
**LABSS TTC: Map ID #3**

**CONCEPT: Campground to Lake George Trail:** Develop a trail connecting the campground to the lake that respects the slope and protects the lake from erosion caused by poorly aligned user trails. See The Lakes Basin Special Study (LABSS) for concept.  
Map Draft Date 11/20/15

-  LABSS TTC Trail Alignments
-  LABSS Proposed Trails
-  INF Trails
-  Centerlines
- 10ft Contours**
  -  Contour Line, Major
  -  Contour Line, Minor
  -  Contour Line, Intermediate

**LABSS TTC**

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0 190 380 760 Feet







## Project Cover Sheet: Map ID # 03

<b>LABSS CONCEPT</b>	Campground to Lake George Trail: Develop a trail connecting the campground to the lake that respects the slope and protects the lake from erosion caused by poorly aligned user trails.	
<b>LABSS RATIONALE</b>	TBD	
<b>RELATED PROJECTS</b>	LABSS project ID #01 - See LABSS Executive Summary for details. LABSS project ID #04 - See LABSS Executive Summary for details. LABSS project ID #09a - See LABSS Executive Summary for details.	
<b>WORKFLOW CHECKLIST TASK</b>	<b>DATE COMPLETED</b>	
Group overview in-house meeting to present work plan and desired deliverables	29-Oct-15	
Group overview field trip and technical analysis in-house	TBD	
Drafting/staking	TBD	
Technical review field trip	TBD	
Draft revision	TBD	
Final review meeting	TBD	
Presentation to USFS	TBD	
<b>AGENCY SIDEBOARDS</b>	Further consultation necessary.	
<b>DESIRED OUTSIDE PARTICIPANTS</b>	Town of Mammoth Lakes, Inyo National Forest, Permit Holders in the Immediate Area.	





## Project Cover Sheet: Map ID # 03

<b>ENVIRONMENTAL REVIEW</b>	TBD	
<b>OTHER NOTES</b>	TBD	
<b>PARTICIPANTS</b>	Joel Rathje (MLTS Coordinator); Rich Boccia (MLR Executive Director); Kelly Workman (MLTPA Staff); John Wentworth (MLTPA Board); David Page (MT Committee); Alan Jacoby (MT Committee)	



## Fall 2015 – Draft Report

Alignment Proposals for the Inyo National Forest and the Town of Mammoth

LABSS ID #04

December 28, 2015





**Map ID# 04 Key Agreements  
As of December 28, 2015**

**DRAFT**

- A. Alignment:** This trail is intended to formalized a USFS system trail from the Lake George Trailhead around the west shore of Lake George.
- 1. Trailhead and Destination(s):** Lake George Trailhead and the west shore of Lake George.
  - 2. Naming:** Lake George Trail, Lake George West Shore Trail, West Shore Trail
  - 3. Control Points/Narrative:** **TBD**
- B. Design Specifications:**
- 1. Trail Type:** Type 2 (preferred hike; tread narrow—less than 36 inches; minimal allowance for passing. See Chapter 6.6 “Soft-Surface Trail Design Guidelines” from TSMP.)
  - 2. Users:** Day hikers, fishermen, climbers, and USFS cabin owners. photographers and day-use picnicking.
  - 3. Width:** See “Trail Type.”
  - 4. Grade:** See “Trail Type.”
  - 5. Surface:** Soft-surface. See “Trail Type.”
  - 6. Features:** **TBD**
  - 7. User Experience/Aesthetics:** This trail is intended to be a rustic family-friendly hike through the woods to the west shore of Lake George. The Lake George Trail will provide an easy meandering route with carefully chosen access points to the water to provide opportunities for fishing, photography and scenic views. Signage and amenities will be kept at a minimum past the Lake George Trailhead to protect the natural character of the area.
  - 8. Trail Amenities:** **TBD**
- C. Winter/Summer Interface:** None.
- D. Signage and Wayfinding Special Considerations:** Signage and wayfinding will need to be established at the Lake George Trailhead, which will need to be formalized as well. There are opportunities for interpretive signage at the Lake George Trailhead. On the proposed trail itself, minimal signage consistent with the “MLTS Soft-Surface Trail Guidelines,” will be installed at the trail junction between the Dike Wall Trail and the proposed Lake George Trail. Minimal signage should be installed at the end of the trail upon arrival at the west shore of Lake George.

**TO BE COMPLETED BY AGENCIES/JURISDICTIONS**

- A. Environmental Review:** **TBD**
- B. Construction & Maintenance:** **TBD**





- C. Funding Considerations & Ownership: **TBD**
- D. Construction Cost Estimator: **TBD**
  - a. Total linear feet of new trail construction: **TBD**
  - b. Total estimated cost per linear foot: **TBD**
  - c. Rehabilitation cost estimate: **TBD**
  - d. First-guess cost estimate: **TBD**
    - i. Preferred Alignment: **TBD**
    - ii. Alternative alignment: **TBD**
- E. Other Special Considerations: **TBD**



LABSS TTC: Map ID #4

CONCEPT: Lake George Loop:

Officialize the user trail around Lake George, re-routing where necessary to ensure sustainability.

See The Lakes Basin Special Study (LABSS) for concept.

Map Draft Date 11/20/15

- LABSS TTC Trail Alignments

LABSS Proposed Trails

INF Trails

Centerlines

10ft Contours

Contour Line, Major

Contour Line, Minor

Contour Line, Intermediate

LABSS TTC

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This topographic map displays the Lake George area, including the lake itself and surrounding forested terrain. The map features several trail alignments: LABSS TTC Trail Alignments shown as thick yellow dashed lines, LABSS Proposed Trails as thin yellow dashed lines, and INF Trails as solid orange lines. Centerlines are marked with solid black lines. The map also includes 10-foot contour lines, with major contours labeled every 10 feet (e.g., 9000 ft, 9100 ft, 9200 ft) and intermediate contours labeled every 5 feet. The terrain is predominantly forested, with some cleared areas and roads visible. The lake is a large, dark blue feature in the center-right of the map.

0

500

1,000

2,000 Feet

Mammoth Lakes, California

U.S. Forest Service

U.S. DEPARTMENT OF AGRICULTURE

MLPA

MAMMOTH LAKES TRAIL - PUBLIC ACCESS





## Project Cover Sheet: Map ID # 04

<b>LABSS CONCEPT</b>	Officialize the user trail around Lake George, rerouting where necessary to ensure sustainability.	
<b>LABSS RATIONALE</b>	TBD	
<b>RELATED PROJECTS</b>	LABSS project 01. See LABSS Executive Summary for details. LABSS project 03. See LABSS Executive Summary for details. LABSS project 09a. See LABSS Executive Summary for details.	
<b>WORKFLOW CHECKLIST TASK</b>	<b>DATE COMPLETED</b>	
Group overview in-house meeting to present work plan and desired deliverables	29-Oct-15	
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Technical review field trip	TBD	
Draft revision	TBD	
Final review meeting	TBD	
Presentation to USFS	TBD	
<b>AGENCY SIDEBORDS</b>	Further consultation necessary.	
<b>DESIRED OUTSIDE PARTICIPANTS</b>	Town of Mammoth Lakes, Inyo National Forest, Permit Holders in the Immediate Area.	
<b>ENVIRONMENTAL</b>	TBD	





## Project Cover Sheet: Map ID # 04

REVIEW		
OTHER NOTES	TBD	
PARTICIPANTS	Joel Rathje (MLTS Coordinator); Rich Boccia (MLR Executive Director); Kelly Workman (MLTPA Staff); John Wentworth (MLTPA Board); David Page (MT Committee); Alan Jacoby (MT Committee)	



Fall 2015 – Draft Report

Alignment Proposals for the Inyo National Forest and the Town of Mammoth

LABSS ID #09a

January 04, 2016





**Map ID# 09a Key Agreements  
As of January 04, 2016**

**DRAFT**

- A. Alignment:** This paved multi-use path is intended to connect Pokonobe Lodge to the Lake George Trailhead as part of a multiphase effort. Phase one is a MUP from the Pokonobe Lodge to the outlet at Lake Mary is slated for construction in the Summer of 2016. Phase two the MUP from the outlet of Lake Mary to Lake George is what follows below.
1. **Trailhead and Destination(s):** Lakes Basin Path, Pokonobe Lodge, Lake George Trailhead, and Lake George.
  2. **Naming:** Lake George Path
  3. **Control Points/Narrative:** **TBD**
- B. Design Specifications:**
1. **Trail Type:** Type 4 (preferred; shared multi-use trail; alternative)
  2. **Users:** Non-motorized, cyclists, pedestrians, and ADA-accessible(?).
  3. **Width:** See "Trail Type."
  4. **Grade:** **TBD (8% USFS Standard or 5% ADA Standard)**
  5. **Surface:** Asphalt
  6. **Features:** **TBD**
  7. **User Experience/Aesthetics:** Accessible from the Lakes Basin Path, this multi-use path is intended to be a destination trail that is family-friendly, ADA accessible and offers views of Lake Mary and the surrounding woods. This path will alleviate cyclist and pedestrian traffic along both Lake George Road and at the junction between Lake Mary Road and Lake George Road. This beginner-friendly trail will improve accessibility for families and other users who may not have accessed the area previously due to Lake George Road's steep grade and high traffic volume.
  8. **Trail Amenities:** Viewpoints, trash cans, benches, interpretive signs and bike racks at the Lake George Trailhead.
- C. Winter/Summer Interface:** Potential points of conflict exist between the proposed Lake George Path and the existing Tamarack Cross Country Center's winter trail system. The proposed MUP will need to be aligned so that it does not interfere with cross country ski trail use. The signage and wayfinding installed along the Lake George Path will also need to be installed in locations that will not interfere with Nordic Trail use.
- D. Signage and Wayfinding Special Considerations:** Signage and wayfinding will need to be established at the Lake George Trailhead which will need to be formalized as well. There are opportunities for interpretive signage at the Lake George Trailhead and along the Lake George Path. As dictated by the *Mammoth Lakes Trail System Wayfinding and Signage Standards Manual*, the signage for this path will conform to the style of already existing pathway



signage. Major signage will need to be installed at the end of the Lake George Path at the Lake George Trailhead.

#### **TO BE COMPLETED BY AGENCIES/JURISDICTIONS**

- A. Environmental Review: TBD**
- B. Construction & Maintenance: TBD**
- C. Funding Considerations & Ownership: TBD**
- D. Construction Cost Estimator: TBD**
  - a. Total linear feet of new trail construction: TBD**
  - b. Total estimated cost per linear foot: TBD**
  - c. Rehabilitation cost estimate: TBD**
  - d. First-guess cost estimate: TBD**
    - i. Preferred Alignment: TBD**
    - ii. Alternative alignment: TBD**
- E. Other Special Considerations: TBD**



LABSS TTC: Map ID #9a

CONCEPT: Lake Mary to Lake George  
segment of a Four Lakes Loop:

Create a loop trail connecting lakes Mary,  
George, Barrett, and T.J., building of  
existing soft-surface trails in the area.

See The Lakes Basin Special Study  
(LABSS) for concept.

Map Draft Date 11/20/15


 LABSS TTC Trail Alignments

 LABSS Proposed Trails

 INF Trails

 Centerlines

**10ft Contours**

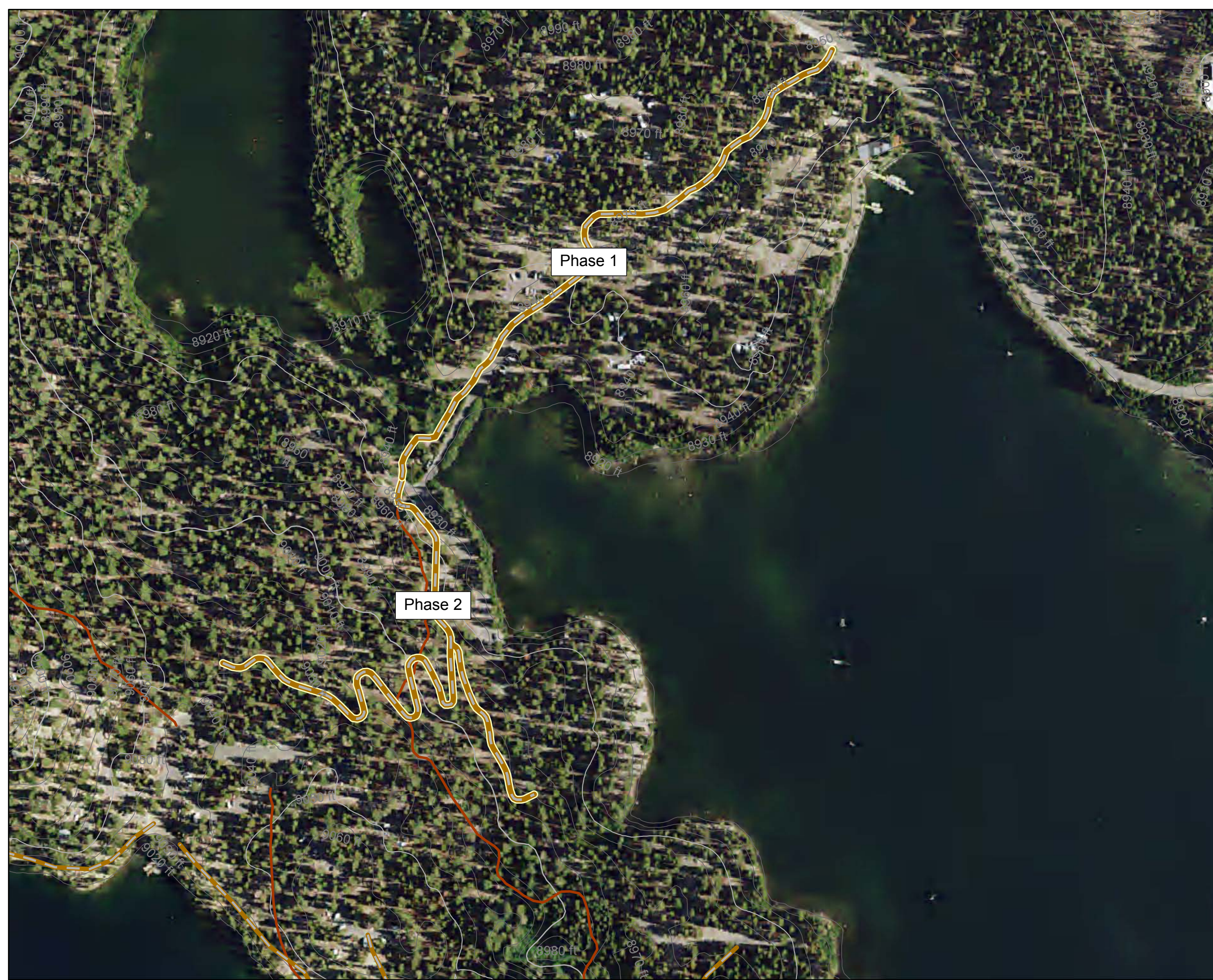
 Contour Line, Major

 Contour Line, Minor

 Contour Line, Intermediate

#### LABSS TTC

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0 375 750 1,500 Feet







## Project Cover Sheet: Map ID # 09a

<b>LABSS CONCEPT</b>	Four Lakes Loop: Create a loop trail connecting lakes Mary, George, Barrett, and TJ, building off existing soft-surface trails in the area. a) Lake Mary to Lake George
<b>LABSS RATIONALE</b>	TBD
<b>RELATED PROJECTS</b>	LABSS Project ID #1 - See Executive Summary for details. LABSS Project ID #3 - See Executive Summary for details. LABSS Project ID #4 - See Executive Summary for details.
<b>WORKFLOW CHECKLIST TASK</b>	<b>DATE COMPLETED</b>
Group overview in-house meeting to present work plan and desired deliverables	29-Oct-15
Group overview field trip and technical analysis in-house	TBD
Drafting/staking	TBD
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Draft revision	TBD
Final review meeting	TBD
Presentation to USFS	TBD
<b>AGENCY SIDEBOARDS</b>	Further consultation necessary.
<b>DESIRED OUTSIDE PARTICIPANTS</b>	Town of Mammoth Lakes, Inyo National Forest, Permit Holders in the Immediate Area.



**Project Cover Sheet:**  
**Map ID # 09a**

<b>ENVIRONMENTAL REVIEW</b>	TBD	
<b>OTHER NOTES</b>	TBD	
<b>PARTICIPANTS</b>	Joel Rathje (MLTS Coordinator); Rich Boccia (MLR Executive Director); Kelly Workman (MLTPA Staff); John Wentworth (MLTPA Board); David Page (MT Committee); Alan Jacoby (MT Committee)	