



Winter 2017 Draft Report

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

Map ID #S09a

Map ID #S09b

April 11, 2017





**Map ID #S09a Key Agreements
As of April 11, 2017**

- A. Alignment:** This project will convert existing USFS roads 4S104 and 4S110 to non-motorized use. This route runs roughly from Sherwin Creek Road north to just short of Mammoth Creek.
- 1. Trailhead and Destination(s):** Sherwin Creek Road and SHARP ID #S09b.
 - 2. Naming:** See naming convention for SHARP ID #S09b.
 - 3. Control Points/Narrative:** The alignment follows the alignment of existing USFS roads 4S104 and 4S110.
 - 4. Map Reference:** SHARP TTC: Map ID #S09a, 03/15/17
- B. Design Specifications:**
- 1. Trail Type:** Type 2 (Preferred Equestrian)
 - 2. Users:** Non-motorized
 - 3. Width:** Tread narrow – less than 30”
 - 4. Grade:** Grades may occasionally be steeper than 10%
 - 5. Surface:** Native materials
 - 6. Features:** None
 - 7. User Experience/Aesthetics:** None
 - 8. Trail Amenities:** Trail amenities and facilities will be limited to signage.
- C. Winter/Summer Interface:** Overlaps with SHARP ID #S09b and #W10b.
- D. Signage and Wayfinding Special Considerations:** As directed by the *Mammoth Lakes Trail System Wayfinding and Signage Standards Manual*.

TO BE COMPLETED BY AGENCIES/JURISDICTIONS

- A. Environmental Review:** “SHARP Projects – NEPA” as submitted to USFS.
- B. Construction & Maintenance:** Town of Mammoth Lakes under CCS and potentially SUP.
- C. Funding Considerations & Ownership:** Funding construction through Measure R and MLTS Trail Facilities Construction Reserve Account; ownership via USFS with maintenance provided by the MLTS.



D. Construction Cost Estimator:

Total Linear Feet of Trail Construction/Rehab	4,297 feet
Total Estimated Cost per Linear Foot	\$5.00
Total Estimated Cost of Trail Construction/Rehab	\$21,485
Type of Amenities	Type 9a Signage
# of Amenities	7
Cost per Amenity	\$200
Total Cost of Amenities	\$1,400
Rehabilitation Cost	TBD
Total Cost Estimate for SHARP ID #S09a	\$22,885

- a. **Total Linear Feet of Trail Construction/Rehab:** 4,297 feet
- b. **Total Estimated Cost per Linear Foot:** \$5.00 per linear foot.
- c. **Estimated Cost of Amenities:** \$200 for each Type 9a signage.
- d. **Rehabilitation Cost Estimate:** TBD
- e. **First-Guess Cost Estimate:** \$22,885
 - i. **Preferred Alignment:** \$22,885
 - ii. **Alternative Alignment:** None

E. Other Special Considerations: Should the area through which these existing roads run be open or closed to mountain bikes?



**Map ID #S09b Key Agreements
As of April 11, 2017**

- A. Alignment:** This trail is intended to be a non-motorized stacked-loop trail system for hiking, running, biking, dog walking, and horseback riding located in the eastern portion of the study area. Trails will be designed and maintained as equestrian-preferred but will remain open to all non-motorized users.
- 1. Trailhead and Destination(s):** Sierra Meadows Equestrian Center, the Mammoth Rock Trail, and the Sherwin Lakes Trail.
 - 2. Naming:** Sheriwins Equestrian Trails (#1 - #TBD)
 - 3. Control Points/Narrative:** See attached SHARP ID #S09b map.
 - 4. Map Reference:** SHARP TTC: Map ID #S09b, 03/15/17
- B. Design Specifications:**
- 1. Trail Type:** Type 2 (Preferred Equestrian)
 - 2. Users:** Non-motorized
 - 3. Width:** Tread narrow – less than 30”
 - 4. Grade:** Grades may occasionally be steeper than 10%
 - 5. Surface:** Native materials
 - 6. Features:** None
 - 7. User Experience/Aesthetics:** TBD
 - 8. Trail Amenities:** TBD
- C. Winter/Summer Interface:** None
- D. Signage and Wayfinding Special Considerations:** As directed by the *Mammoth Lakes Trail System Wayfinding and Signage Standards Manual*.

TO BE COMPLETED BY AGENCIES/JURISDICTIONS

- A. Environmental Review:** “SHARP Projects – NEPA” as submitted to USFS.
- B. Construction & Maintenance:** Town of Mammoth Lakes under CCS and potentially SUP.
- C. Funding Considerations & Ownership:** Funding construction through Measure R and MLTS Trail Facilities Construction Reserve Account; ownership via USFS with maintenance provided by the MLTS.



D. Construction Cost Estimator:







Total Linear Feet of New Trail Construction	45,486 feet
Total Estimated Cost per Linear Foot	\$5.00
Total Estimated Cost of New Trail Construction	\$227,430
Type of Amenities	Type 9a Signage
# of Amenities	20
Cost per Amenity	\$200
Total Cost of Amenities	\$4,000
Rehabilitation Cost	TBD
Total Cost Estimate for SHARP ID #S09b	\$231,430

- a. **Total Linear Feet of New Trail Construction:** 45,486 feet
- b. **Total Estimated Cost per Linear Foot:** \$5.00 per linear foot.
- c. **Estimated Cost of Amenities:** \$200 for each Type 9a sign.
- d. **Rehabilitation Cost Estimate:** TBD
- e. **First-Guess Cost Estimate:** \$231,430
 - i. **Preferred Alignment:** \$231,430
 - ii. **Alternative Alignment:** None

E. Other Special Considerations: Designating the trails as equestrian-preferred provides an opportunity for a safe equestrian experience for novice riders and children. For the most part, the trails are on relatively gentle terrain over soils that are soft and sandy and provide excellent line of sight, minimizing the potential for conflict with other users.

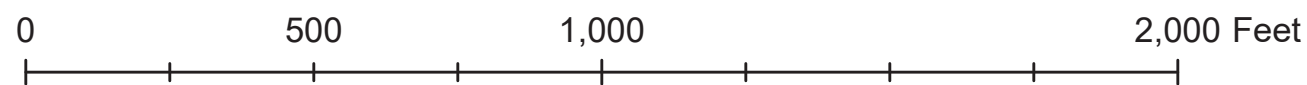
SHARP TTC: Map ID #09a
CONCEPT: Convert existing USFS roads 4S104 and 4S110 to non-motorized use.
 Convert existing USFS roads 4S104 and 4S110, at the eastern end of the study area, to non-motorized use only.
 The routes run roughly from Sherwin Creek Road north to just short of Mammoth Creek.
 Map draft date: 03/15/17

Legend

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







SHARP TTC

- The SHARP TTC is committed to staying true to the original wording and intent of the SHARP proposals as crafted by the Sherwins 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.
- This map is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



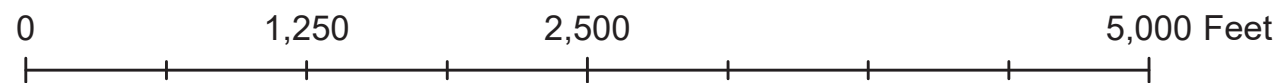
SHARP TTC: Map ID #09b
CONCEPT: Non-motorized stacked-loop trail system located in the eastern portion of the study area.
 Develop a stacked-loop trail system based on existing trails in the area that will address the needs of visitors who go on day rides, equestrians who board both long- and short-term at Sierra Meadows Equestrian Center, and those who use the trails for hiking, running, biking, and dog walking. Trails will be designed and maintained as equestrian-preferred, but will remain open to all non-motorized users.
 Map draft date: 03/15/17

Legend

-  SHARP TTC Trail Alignments
-  SHARP Proposed Trails
-  INF Trails
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**Project Cover Sheet:
Map ID #S09a**

SHARP CONCEPT	Convert existing USFS roads 4S104 and 4S110 to non-motorized use. Convert existing USFS roads 4S104 and 4S110, at the eastern end of the study area, to non-motorized use only. The routes run roughly from Sherwin Creek Road north to just short of Mammoth Creek.
SHARP RATIONALE	The existing roads are currently open to motorized use but lack connectivity to other motorized opportunities and experience minimal use. The conversion would help to protect the existing mule deer habitat in the area, which is a tourism amenity (to see deer on the trail is a unique experience). Additionally, this road is part of the existing Sierra Meadows Equestrian Center lease-area trail inventory. QUESTION: Should the area through which these existing roads run be open or closed to mountain bikes?
RELATED PROJECTS	SHARP project ID #S09b. - See The SHARP Summer Proposal for details. SHARP project ID #W10b. - See The SHARP Winter Proposal for details.
WORKFLOW CHECKLIST TASK	DATE COMPLETED
Group overview in-house meeting to present work plan and desired deliverables	January 2017 - March 2017
Group overview field trip and technical analysis in-house	January 2017 - March 2017
Drafting/staking	January 2017 - March 2017
Technical review field trip	None
Draft revision	January 2017 - March 2017
Final review meeting	March 16, 2017
Presentation to USFS	None
AGENCY SIDEBOARDS	None.
DESIRED OUTSIDE PARTICIPANTS	Town of Mammoth Lakes, and Inyo National Forest.
ENVIRONMENTAL REVIEW	“SHARP Projects – NEPA” as submitted to USFS.
OTHER NOTES	None
PARTICIPANTS	2017 Participants: Joel Rathje, John Wentworth, Andrew Mulford, and Kelly Workman.



**Project Cover Sheet:
Map ID #S09b**

SHARP CONCEPT	<p>Non-motorized stacked-loop trail system located in the eastern portion of the study area.</p> <p>Develop a stacked-loop trail system based on existing trails in the area that will address the needs of visitors who go on day rides, equestrians who board both long- and short-term at Sierra Meadows Equestrian Center, and those who use the trails for hiking, running, biking, and dog walking. Trails will be designed and maintained as equestrian-preferred, but will remain open to all non-motorized users.</p>
SHARP RATIONALE	<p>This trail system has traditionally been and continues to be used by both locals and out-of-town visitors who enjoy this area. The trails represent a stacked-loop system that offers the opportunity for users to walk their dogs, hike, run, mountain bike, and horseback ride. The stacked loops provide for great variety in length of experience and can be used in different directions and configurations, such as figure eights, to enhance enjoyment of the area. The trail system provides essential connectivity between Sierra Meadows Equestrian Center and other system trails, including the Mammoth Rock and Sherwin Lakes trails. Additionally, designing the trails as equestrian-preferred provides an opportunity for a safe equestrian experience for novice riders and children. For the most part, the trails are on relatively gentle terrain over soils that are soft and sandy and provide excellent line of sight, minimizing the potential for conflict with other users.</p>
RELATED PROJECTS	<p>SHARP Project ID #S01 - See SHARP Summer Proposal for details. SHARP Project ID #S02 - See SHARP Summer Proposal for details. SHARP Project ID #S07 - See SHARP Summer Proposals for details.</p>
WORKFLOW CHECKLIST TASK	DATE COMPLETED
Group overview in-house meeting to present work plan and desired deliverables	January 2017 - March 2017
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DESIRED OUTSIDE PARTICIPANTS	Town of Mammoth Lakes, and Inyo National Forest.
ENVIRONMENTAL REVIEW	"SHARP Projects – NEPA" as submitted to USFS.
OTHER NOTES	None
PARTICIPANTS	Joel Rathje, John Wentworth, Andrew Mulford, and Kelly Workman.