



Winter 2017 Draft Report

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

Map ID #S07

March 14, 2017





**Map ID #S07 Key Agreements
As of March 14, 2017**

- 1. Alignment:** This trail is meant primarily as a connector/commuter route between the Borrow Pit Staging Area and the Tamarack Street Trailhead. The alignment described below is still in draft form, and the SHARP TTC looks forward to working more closely with USFS trail specialists to improve the trail's sinuosity and aesthetics.
- 2. Trailhead and Destination(s):** Borrow Pit Staging Area (Sherwins Trailhead), Tamarack Street Trailhead, and SHARP ID #S08 (stacked-loop system).
- 3. Naming:** Sherwins Meadow Path.
- 4. Control Points/Narrative:** The trail begins at the south side of the Borrow Pit Trailhead (Sherwins Trailhead) (1), provides access to Map ID #S06 and Map ID #S13, and heads southwest on existing USFS Trail 27E201 (currently open to all vehicles), which will be closed to general motor-vehicle use. Moving 2,710 feet down the trail, the user arrives at Kerry Meadow, a popular location for special events such as weddings. This area will feature a turnaround on the south side of the trail (2) to accommodate special-event service vehicles. The alignment then heads west (3) to allow for meadow restoration and delivers the user to the crest of the hill (4) in ADA-accessible fashion (the details of which are yet to be determined and will likely be worked out with the assistance of an ADA trail specialist). At the top of the hill (4), the route rejoins USFS Trail 27E201. After 185 feet, the route intersects with another existing USFS road (USFS Closed Road N1257) (5). The alignment will continue on USFS Trail 27E201 for 275 feet, where it will depart the existing trail (6) and continue west. The remainder of USFS Trail 27E201 will be converted to a non-motorized trail. The alignment will continue west, away from the trees to the south, and offer views of Mammoth Rock and the meadow (7). Another 760 feet down the trail, the user will come to a natural band of rocks that will serve as a rest/viewpoint (8). From here, the trail descends 204 feet to the existing use trail and the edge of the Bodle Ditch (9). The alignment will cross Bodle Ditch (10), possibly via a boardwalk, staying as northerly as possible without getting close to Snowcreek V to avoid sensitive wildlife habitat in the willows and to keep users out of the wettest areas. After crossing the ditch, the alignment will continue west for 1,135 feet in a way that meanders to maximize aesthetics and the trail-use experience while minimizing impacts (11). The trail will then



join the existing Mammoth Community Water District well-access road at the grouping of trees (12), then heads north to the proposed easement that leads to Tamarack Street from the adjacent private property (13).

5. **Map Reference:** SHARP TTC: Map ID #S07, 11/17/2010.

B. Design Specifications:

1. **Trail Type:** Type 4 (Shared Multi-Use Trail)
2. **Users:** Non-motorized, ADA-accessible, special events; equestrians prohibited.
3. **Width:** Tread 8' to 12'
4. **Grade:** Grades less than 5%
5. **Surface:** Native or imported material. Asphalt (preferred) or other firm and stable ADA-accessible surface (alternative). The use of asphalt will prevent equestrians from using this facility and therefore assist with facility upkeep and maintaining ADA standards. Equestrians could be accommodated with another alignment stemming from the Borrow Pit Staging Area (Sherwins Trailhead) or by the development of a parallel bridle path.
6. **Features:** 1) The potential exists for an ADA-preferred parking area on federal land at the connection to the meadow (map control point #14). This is already a moderately disturbed area due to the golf course and Mammoth Community Water District well access and will become more so with the development of Terry Plum's property. This feature may appease neighborhood residents opposed to parking installed on Tamarack Street and acts as an alternative to Map ID #S02. The parking will be available year-round. 2) The bridle path is intended to develop organically through persistent use and runs parallel to the trail on either side, but it is noted that this concept needs further study. 3) The trail crossing at Bodle Ditch may require a boardwalk. 4) A turnaround for service vehicles will be created at Kerry Meadow. 5) One possible solution to the ADA-accessibility issue identified in map control point #3 is a blend of stairs with pathway switchbacks.
7. **User Experience/Aesthetics:** This facility is intended to be a destination/showcase trail that is family-friendly, ADA-accessible, and offers views of the Sherwins, the meadow, and Mammoth Rock. As a connector to the Tamarack Street trailhead, it also will act as a commuter pathway for the Old Mammoth Road neighborhood. Due to its location in a diverse landscape, interpretive opportunities abound along the trail.
8. **Trail Amenities:** Dog bag stations, trash cans, and other facilities. Proximate facilities such as Snowcreek VIII will also influence the type



and location of amenities.

- C. Winter/Summer Interface:** Map ID #W09a (groomed trail for snow travel) is proposed to be locate over this alignment. The boardwalk at Bodle Ditch, if installed, presents a potential conflict in winter in terms of snowmobile use.
- D. Signage and Wayfinding Special Considerations:** As dictated by the *Mammoth Lakes Trail System Wayfinding and Signage Standards Manual*. There is an opportunity for interpretive signage with wildlife and watershed information that could connect with the larger interpretive experience at the Borrow Pit Staging Area (Sherwins Trailhead).

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 New Trail Construction	7,527 feet
Total Estimated Cost per Linear Foot	\$190
Total Estimated Cost of New Trail Construction	\$1,430,130
Type of Amenity	Multi-Use Pathway Signage
# of Amenities	18
Cost per Amenity	Varies
Total Cost of Amenities	\$110,500
Rehabilitation Cost	N/A
Total Cost Estimate for SHARP ID #S07	\$1,540,630

- a. **Total Linear Feet of New Trail Construction:** 7,527 feet
- b. **Total Estimated Cost per Linear Foot:** Approximately \$190 per linear foot.
- c. **Estimated Cost of Amenities:** Varies. Estimated multi-use pathway signage needs include: (2) Type 2 signs (approximately \$10,000 each), (8) Type 4/6 signs (approximately \$8,000 each), (5) Type 6a signs (approximately \$5,000 each), and (3) bollards at (approximately \$500 each).



Sign Type	Quantity	Unit Cost	Total
Type 2	2	\$10,000	\$20,000
Type 4/6	8	\$8,000	\$64,000
Type 6a	5	\$5,000	\$25,000
Bollard	3	\$500	\$1,500
Total Signs	14	Grand Total	\$110,500

- d. **Rehabilitation Cost Estimate:** None.
- e. **First-Guess Cost Estimate:** \$1,540,630
 - i. **Preferred Alignment:** \$1,540,630
 - ii. **Alternative Alignment:** None
- E. **Other Special Considerations:** A Forest Order will be needed for the road-to-trail conversion. The recent Inyo National Forest Travel Management Plan implementation may also have some implications for road closures in the area.






SHARP

Sherwins Area Recreation Plan
Trails Technical Committee

SHARP TTC: Map ID #S07

Map Draft Date 11/17/10

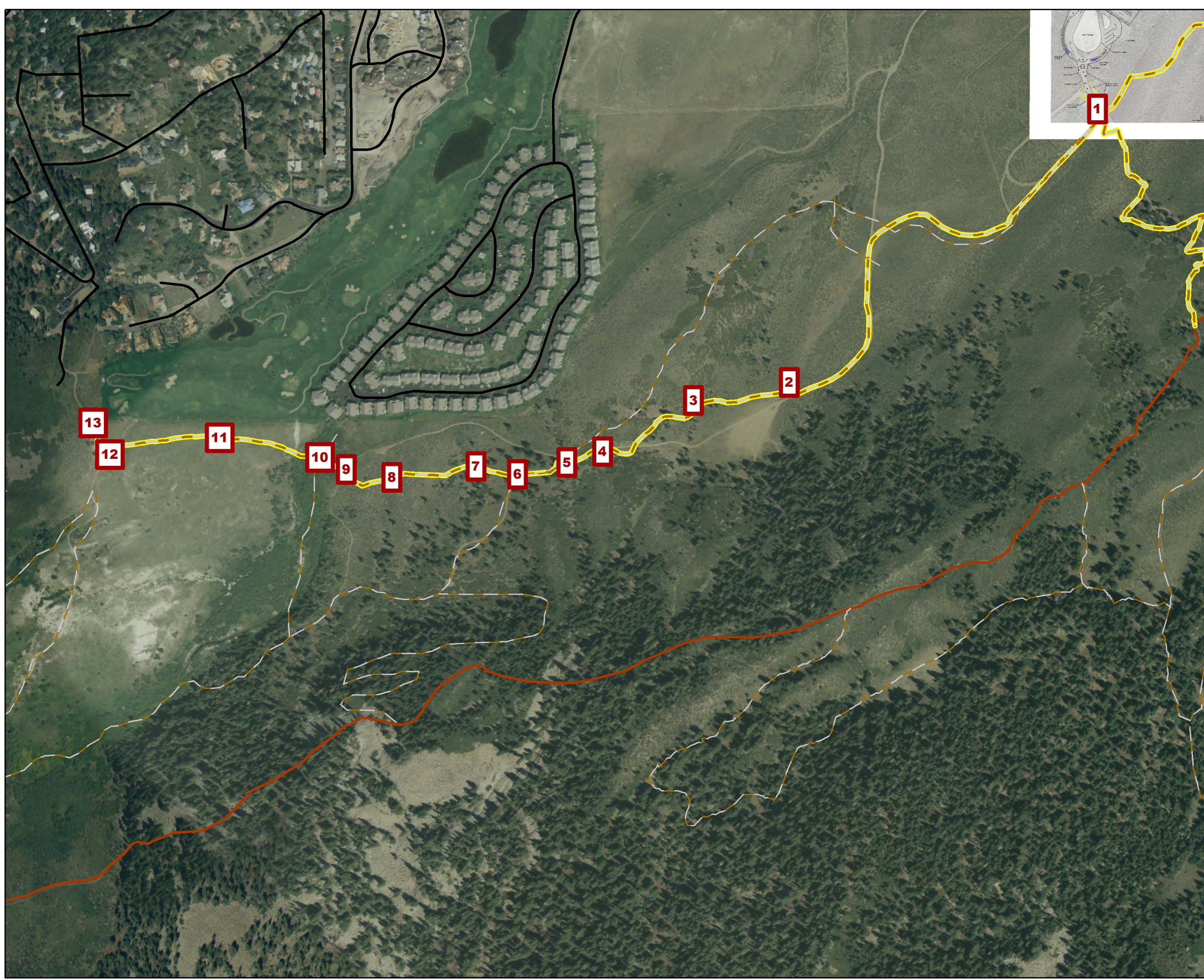
Legend

-  SHARP TTC Trail Alignments
-  SHARP Proposed Trails
-  INF Trails
-  Centerlines
-  Control Points

Please see the SHARP TTC Project Coversheet and Key Agreements Documents for project details and Control Point definitions, as well as the Sherwins Area Recreation Plan (SHARP) for detailed concept and rationale.

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.



0 550 1,100 2,200 Feet





**Project Cover Sheet:
Map ID #S07**

SHARP CONCEPT	<p>Non-motorized “backbone” trail connections from the Borrow Pit Staging Area to the Tamarack Street Trailhead.</p> <p>Articulate two separate non-motorized routes that connect the Borrow Pit Staging Area (see Summer Map ID #S01) to the Tamarack Street Trailhead (see Summer Map ID #S02) and also connect into the summertime stacked-loop trail system (see Summer Map ID #S08). The hard-surface or paved trail will be ADA-accessible and will be aligned over the existing USFS 4S100 road, which will require closure to motorized use. Construction should accommodate service and maintenance vehicle access to Kerry Meadow for special events such as weddings. The complementary trail will be soft surface and aligned over the existing trail to the south, near the base of the Sherwins. Accommodation of equestrian use will be included in the design process, which may include an equestrian only bridle path. Environmentally appropriate trail design is critical. These trails will be open to non-motorized use only, with specific use dependent on trail surface.</p>
SHARP RATIONALE	<p>Accommodating multiple uses is important to the diverse Mammoth Lakes community, and providing one hard-surface trail and one soft-surface trail that link the Borrow Pit Staging Area to the Tamarack Street Trailhead and the greater stacked-loop trail system allows users a choice of experience. The hard-surface or paved trail will enable disabled users and those desiring a compacted surface to enjoy the Sherwins area. It also will provide direct connections to other points on the Mammoth Lakes Trail System by way of the Tamarack Street Trailhead (see Summer Map ID #02), the Snowcreek VIII access/egress point (see Summer Map ID #03), and the Borrow Pit Staging Area (see Summer Map ID #01). The soft-surface trail allows equestrians who have property on Tamarack Street to cross the meadow and access the Borrow Pit Staging Area and beyond, or to head up to the Lakes Basin if coming from the east. It also furthers connectivity for mountain bikers and hikers and discourages use-trail proliferation by providing an easy, clear route. The meadow area is flat and open, which provides excellent visibility for equestrians, hikers, and mountain bikers sharing the soft-surface trail and can help curb user conflict and increase user safety. Proper trail engineering will allow for restoration of the wet meadows by closing other, less-sustainable use trails. Ensuring continued, though modified, access to Kerry Meadow will sustain special-event business there and also offer interpretive opportunities.</p> <p>NOTE: The exact alignment of the backbone trails has not yet been determined, but will be positioned to avoid possible conflict with golf balls hit from the nearby Snowcreek fairway.</p>
RELATED PROJECTS	<p>SHARP ID #S01. See SHARP Summer Proposals for details. SHARP ID #S02. See SHARP Summer Proposals for details. SHARP ID #S03. See SHARP Summer Proposals for details. SHARP ID #S06. See SHARP Summer Proposals for details.</p>
WORKFLOW CHECKLIST TASK	DATE COMPLETED
Group overview in-house meeting to present work plan and desired deliverables	June 12, 2010



**Project Cover Sheet:
Map ID #S07**

Group overview field trip and technical analysis in-house	Field trip: June 12, 2010
Drafting/staking	June 17, 2010
Technical review field trip	June 24, 2010
Draft revision	N/A
Final review meeting	July 13, 2010
Presentation to USFS	November 18, 2010
AGENCY SIDEBOARDS	Mammoth Meadow Restoration Project.
DESIRED OUTSIDE PARTICIPANTS	Town of Mammoth Lakes, Inyo National Forest
ENVIRONMENTAL REVIEW	"SHARP Projects – NEPA" as submitted to USFS.
OTHER NOTES	None.
PARTICIPANTS	2010 Participants: Robin Morning, Lesley Bruns, Maggie Palchak, Malcolm Clark, John Walter, Greg Norby, Tammy Nguyen, Megan Mahaffey, Linsey Duddridge, Chuck Megivern, Kim Stravers, Drew Blankenbaker, Steve Speidel, Keith Dawley, Jon Kazmierski, and John Wentworth 2017 Participants: Joel Rathje, John Wentworth, Andrew Mulford, and Kelly Workman.