



SCA Massachusetts AmeriCorps 2016 Crew Request Form



department of
Conservation and Recreation



Project Site Information

Site Name: Torrey Brook Bridge Project	Date Form Completed: 11/30/2015
Project location (trail or specific area): Torrey Brook on South Hanover Town Property (near Senior Center)	
City/Town where project is located: Hanover, Massachusetts	

Partner Contact Information

Primary Contact Name: Emilie Wetzel		
Street Address: 675 Long Pond Rd		City, State, ZIP: Plymouth, MA 02360
Phone: 774-343-5121 ext. 110	Cell: 585-690-3910	Email: Stewardship@wildlandstrust.org
Secondary Contact Name: Hal Thomas		
Street Address: 854 Broadway		City, State, ZIP: Hanover, MA 02339
Phone: (781) 826-7952	Cell: (508) 510-9193	Email: halhanover@msn.com

Overview

The SCA Massachusetts program provides the agencies and communities of Massachusetts with highly skilled and motivated crews to complete vital conservation and resource projects throughout the state.

What SCA Massachusetts Provides:

- 1 crew of 5 members
- A self contained work crew: equipped with a van, tools, food, and camp equipment to complete the agreed upon project.
- 5 or 10 days of work at your site: crews typically work an 8 hour day.
- Professional Staff Support: SCA Massachusetts Staff provide technical consulting, member supervision/support and project oversight.
- 24-hour emergency response system and Risk Management
- Complete Liability and Worker's Comp insurance for the crew
- Administrative support
- Reporting and evaluation of the crew's service and performance

Crew Training

SCA Massachusetts crews are trained and supervised to complete high-priority, technically advanced conservation projects. In order to serve partners effectively, crews receive the trainings listed below. Custom trainings may be provided to prepare crews for additional alternative projects.

- | | |
|--|---|
| • Rustic Timber Construction (bridges, steps, walls, and more) | • Trail Maintenance |
| • Rock Construction (steps, retaining walls, waterbars and more) | • Erosion Control |
| • Griphoist and Rigging | • Basic Carpentry |
| • Trail Survey, Design and Construction | • Chainsaw Certification through NE Woodland Training |
| • Restoration and Re-vegetation | • Wilderness Medical Training and CPR |
| | • Leadership Training |
| | • Leave No Trace Education Training |

What Agencies and Partner Organizations Provide

- Appropriate Projects. See details below.
- **All necessary permits obtained and in place prior to the start of work. See details below.**
- Specifications for the project.
- All necessary materials for the project (lumber, gravel, etc.)
- A written evaluation of the crew's performance.
- A camping area or housing for the crew to stay in while working on the project.
- While SCA provides crew supervision, your involvement is encouraged if you have designs or methods specific to your project.

Cost Share

Agencies provide a cost-share to assist with the cost of fielding a crew. SCA Massachusetts Corps covers the remainder of the total program cost through our AmeriCorps partnership, donations and corporate sponsorships. SCA Massachusetts crews can be requested for five or ten days. If your project requires more time to be completed, you can request a crew for a longer period of time. Travel time to and from the project site is included within the five or ten day period.

Number of Days	Cost Share Amount
5 days	\$3,800
10 days	\$7,400

Project Selection Process

Projects are submitted by agencies and community organizations in the fall of the year preceding anticipated completion. Requests are reviewed and approved by SCA staff to ensure suitability for crews. In order to fully utilize training and expertise of the SCA Massachusetts crews and to provide the best possible service to partners, projects will be prioritized according to the following criteria:

- **Clear Conservation Value:** The project should directly benefit the land, wildlife or general public.
- **Technically Demanding and Labor Intensive:** SCA Massachusetts members are highly trained and should be utilized for the jobs your seasonal staff or volunteers aren't trained for or don't have the time to complete: technical timber bridge building, remote projects, rock work, large scale trail building and maintenance.
- **Educational Value:** crews are made up of young adult volunteers choosing to serve in Massachusetts to gain work and life experience. Projects should be interesting, varied and mutually beneficial for sponsors and SCA Massachusetts members.
- **Safety:** Projects will be prioritized based on how safe they will be to complete.

Examples of Appropriate Conservation Service Projects:		Inappropriate Projects:
Timber bridge and boardwalk construction	Shelter construction	Road work
Rock staircase construction	Erosion control	Mowing
Retaining walls	Blowdown removal	Poison ivy removal
Restoration and plantings	Boardwalk construction and repair	Graffiti removal
Historical preservation	Trail clearing and brushing	Janitorial/facility main. work
Remote campsite restoration/maintenance/expansion	Trail construction	
	Environmental education	

Permits

You will be required to obtain all necessary permits before work begins. Typically there are three different permits that may or may not be required depending on the location and nature of the work you are proposing.

1. **Wetland Protection Act Permits:** If the project you are proposing is within 100' of a wetland or 200' of a perennial stream it may be under Conservation Commission jurisdiction. You are responsible for determining whether your proposed project will require conservation commission approval as well as obtaining permission prior to the start of work.
2. **Natural Heritage Endangered Species Protection Program:** SCA Massachusetts staff with the help of DCR partners will use the map you provide to determine if proposed projects fall within designated priority habitat zones. We will contact you if your project is located within a priority habitat zone.

Project Proposal

- 1.) Please describe conservation project(s) here. Please be specific and detailed. Please provide a map with the project location clearly marked. This can be sent via mail or scanned and sent electronically. If possible, please include photos of the project site.
 - *The Hanover Open Space Committee is hoping to receive SCA assistance in order to construct a bridge over Torrey Brook on the Town's property in South Hanover. Emilie Wetzel is a MassLIFT-AmeriCorps member stationed at Wildlands Trust who is assisting the Hanover Open Space Committee with this process. She has been in contact with Gary King, the Director of Partnership Development for the SCA for the past few months to discuss the details and progress of this project. Hal Thomas is co-chair of the Hanover Open Space Committee, along with Mary Dunn.*
 - *The proposed Torrey Brook Bridge would allow the community surrounding Samoset Drive to directly access over 100 acres of land and 3 miles of trails leading to the Senior Center, the Myrtle Field athletic fields, and Tindale Bog (see Figure 2). The desire for a bridge at this location is evident; nearby residents have taken it upon themselves to create a makeshift bridge in order to access the public woods (see photo 3 on page 14). This makeshift bridge is very unstable and needs to be replaced. The proposed bridge will also be instrumental in improving Hanover's Greenway system, allowing the South Hanover property to be connected to the 10 miles of trails that lie to the west on the Fireworks Property and the Forges Pond Park area, as well as the many miles of trails that lie to the east on the Luddam's Ford Park and Chapman's Landing properties. In order to illustrate the extent of influence this project will have on the community, please refer to Figure 1 on the following page. The Torrey Brook Bridge will allow the proposed trails denoted by "26" on Figure 1 to come into fruition, and will allow for Greenway users to spend more time walking among nature rather than along roadsides.*

TOWN OF HANOVER, MASSACHUSETTS GREENWAY TRAILS JUNE, 2008



Figure 1. Hanover Greenway System. The Torrey Brook Bridge project will allow proposed trails labeled "26" to open.

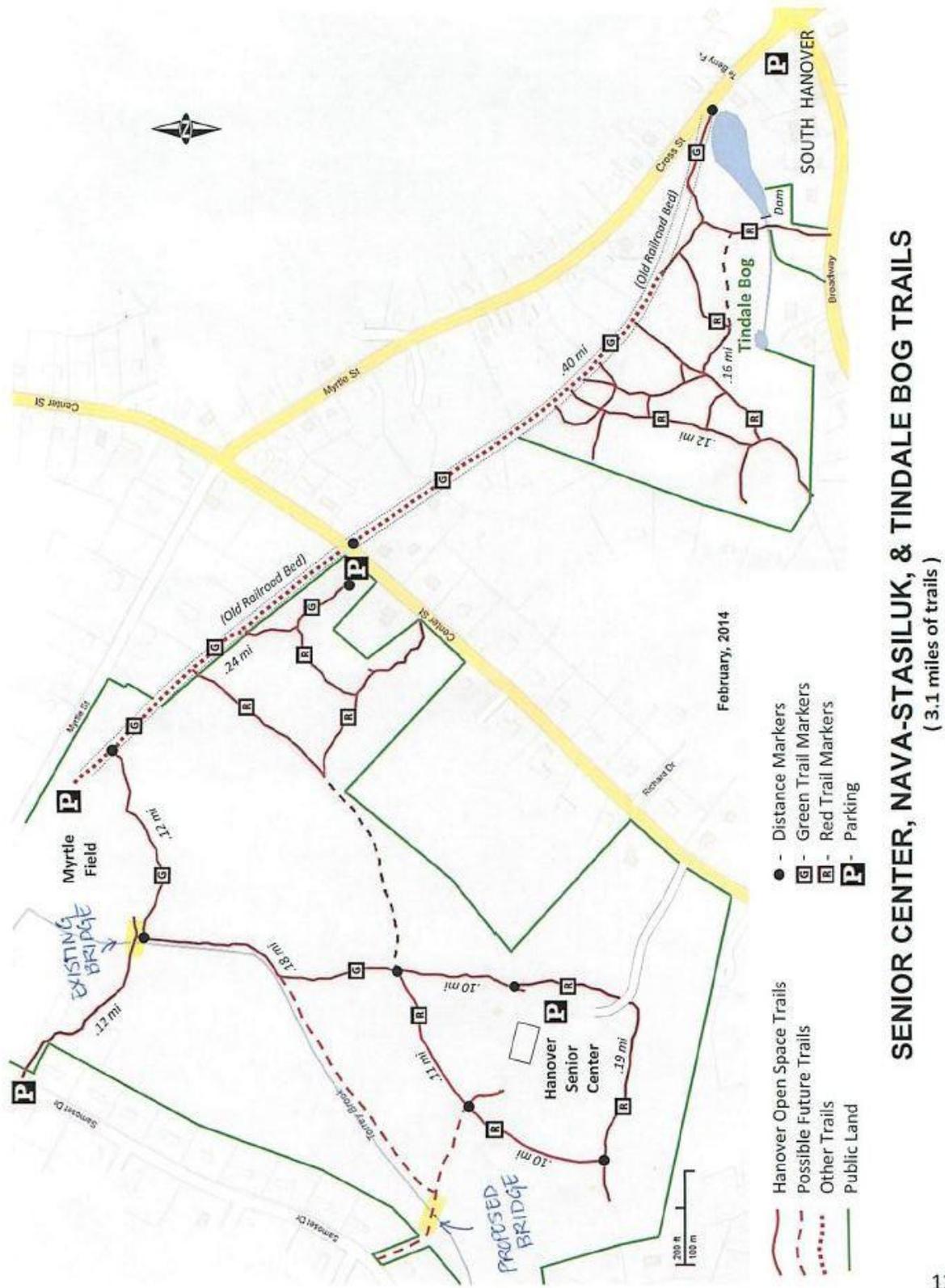


Figure 2. Map of Town Property surrounding Senior Center and the Proposed Bridge site (Torrey Brook Bridge). This area is represented by "26" on Figure 1 Map.

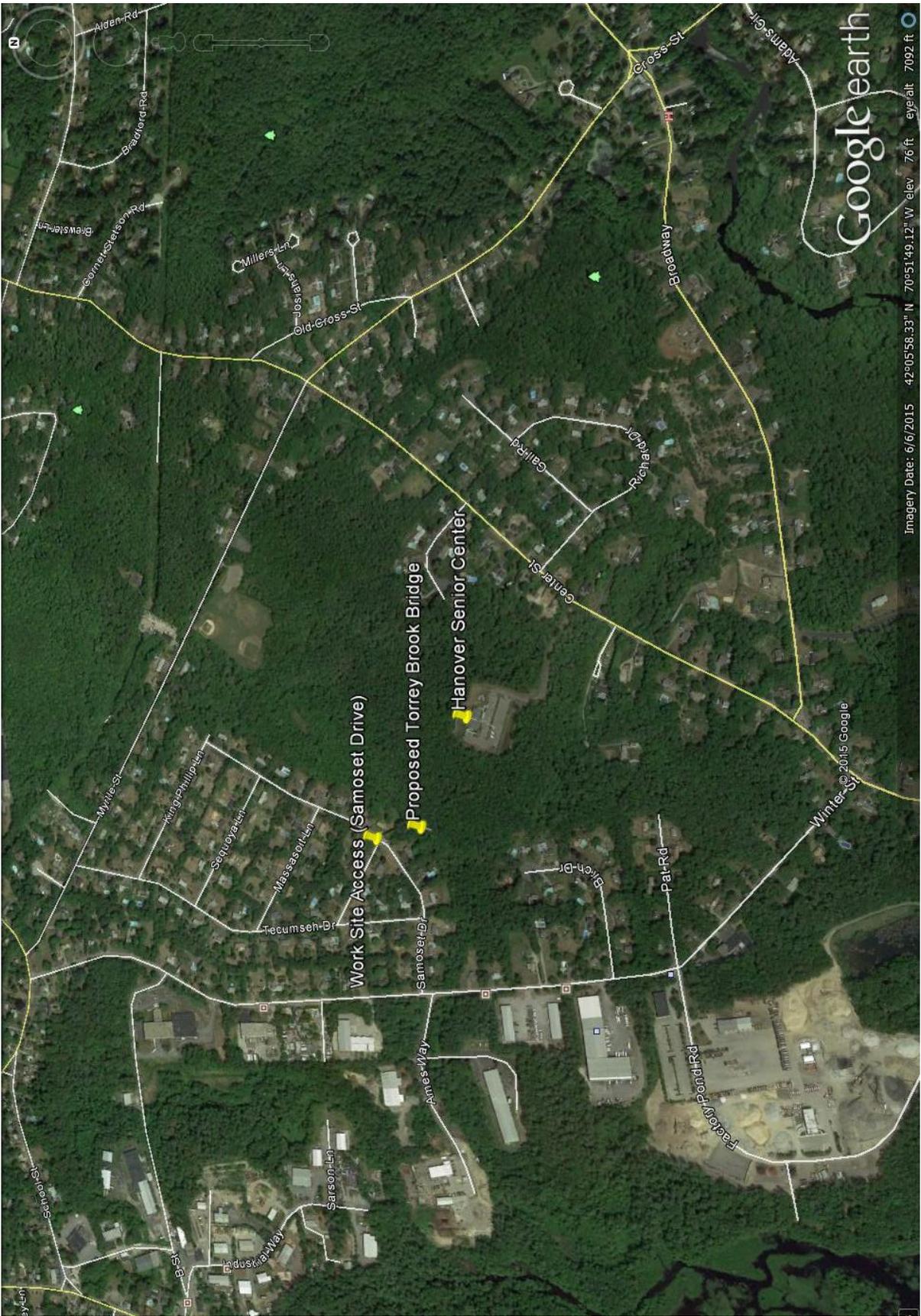


Figure 3. Orthoimagery of Work Site. Note access point on Samoset drive, and proposed bridge site.

2.) Will this project include the construction of bridges, boardwalks, or other technical structures? Yes No

If so, please include specifications here (blue prints, sketches, materials to be used, and dimensions). SCA Staff are available to provide assistance with project design. Attach additional documents if necessary.

- *The proposed Torrey Brook Bridge will use the same design as the French's Stream Bridge constructed by an SCA crew in 2004. Please refer to the pictures of the French's Stream Bridge, labeled Photos 7-10 on pages 16-18 and the newspaper articles about this successful project, attached with the title "Newspaper_2004_FrenchsStream_SCA."*
- *Also, please refer to the blueprints of the French's Stream Bridge on the following pages 8 and 9. The blueprints are also attached in the email as a PDF for quick printing purposes, titled as "Blueprints_Torrey_Brook."*
- *Measured bank to bank, the Torrey Brook is 37 feet in length, allowing us to use the same blueprints from the French's Stream bridge project. The dimensions of French's Stream Bridge and the proposed Torrey Brook Bridge are as follows: 38 feet in length, 4 feet in width, 3 feet in height (height of the railing). The exact location of the bridge can be shifted in order to prevent trees from being removed.*
- *Materials needed for the project are listed in a table under Question 16.*

French's Stream Bridge – Hanover, MA

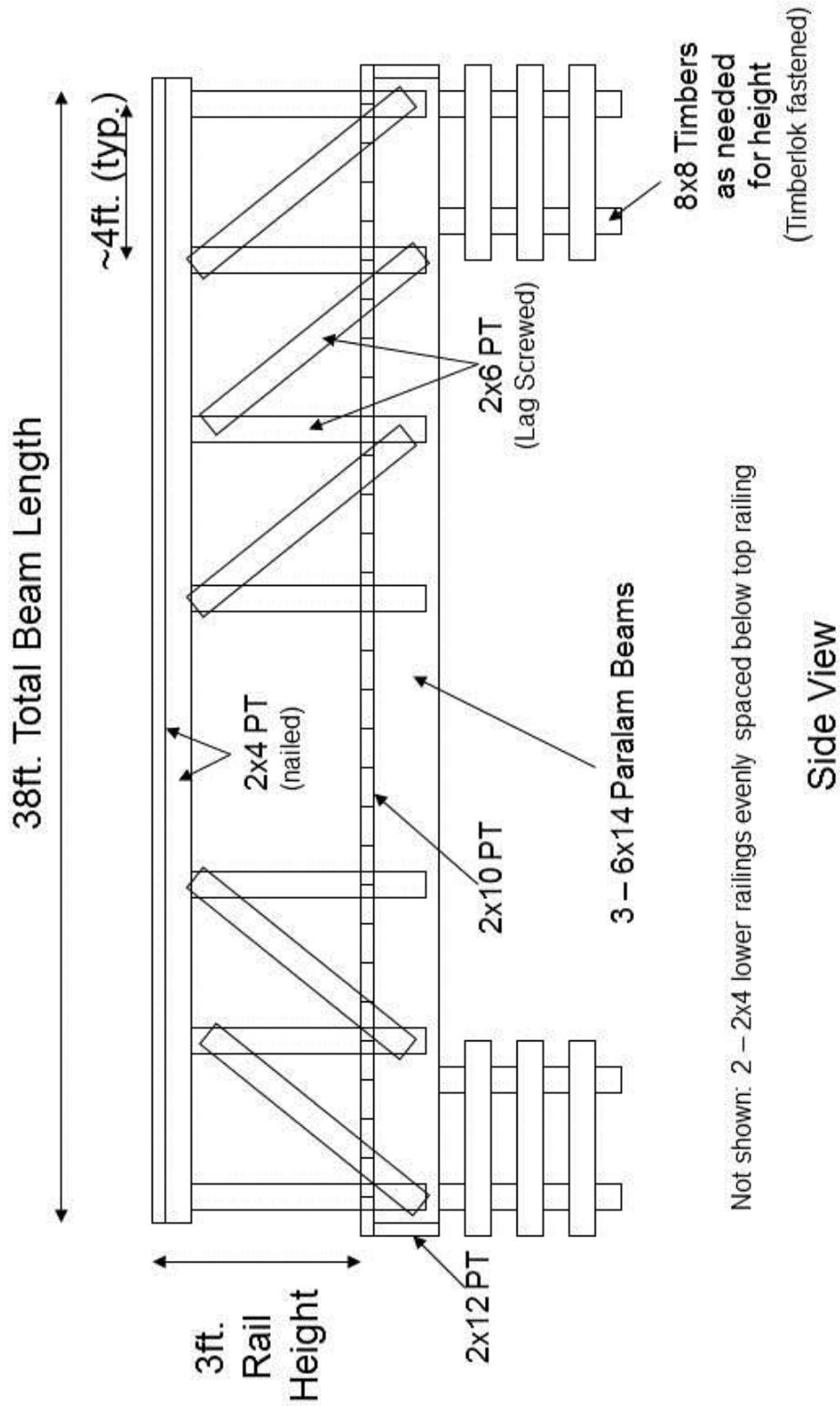


Figure 4. Past bridge design, intended to be used again for the proposed Torrey Brook Bridge.

French's Stream Bridge – Hanover, MA

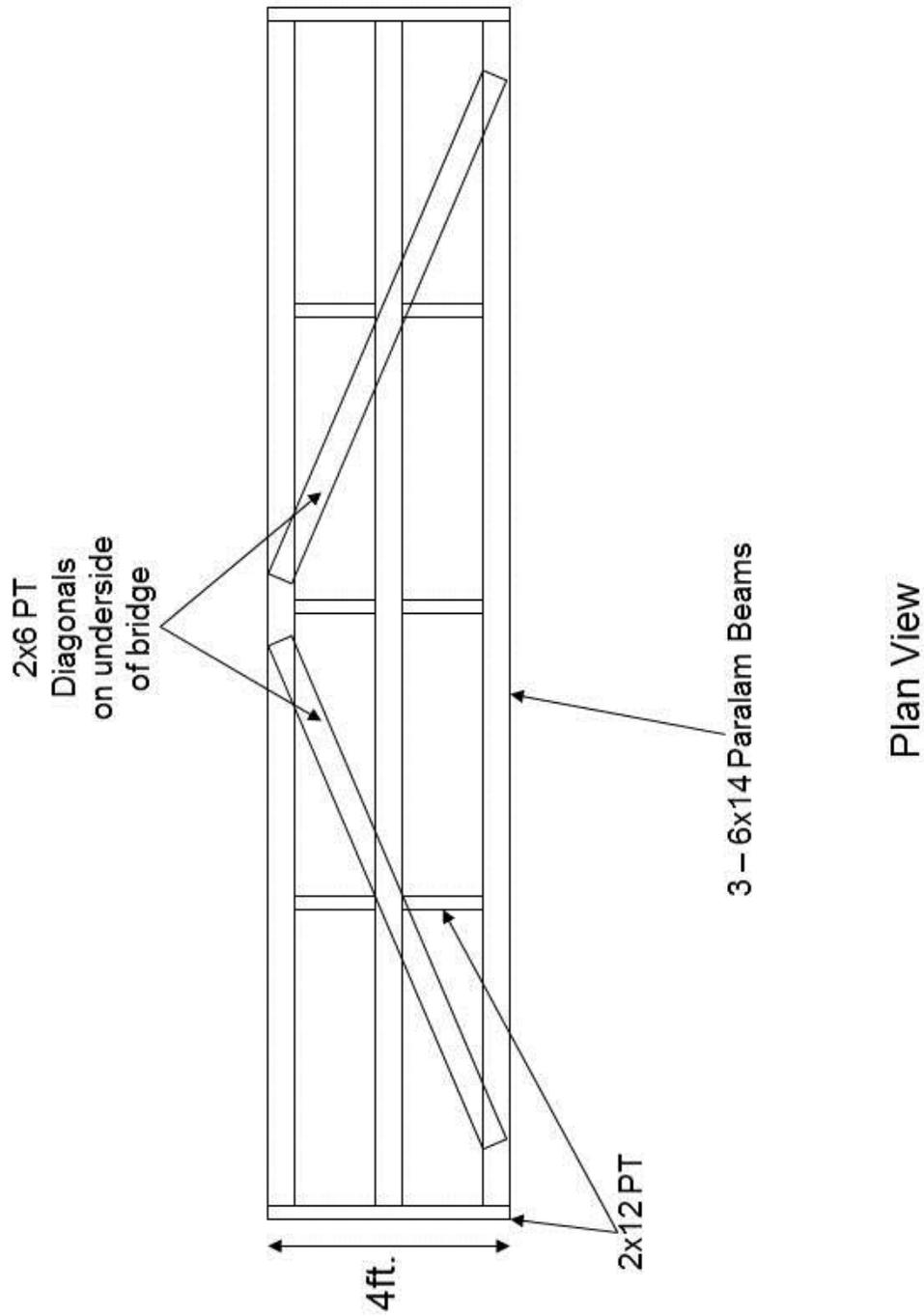


Figure 5. Past bridge designs, intended to be used again for the proposed Torrey Brook Bridge project. This Plan View shows the underside of the bridge; "Paralam beams" are 38-foot stringers.

3.) Is the proposed project within an existing trail bed or on a previously impacted site? Yes No
If not, please describe the project site (current land use, adjacent to water/wetlands, terrain)

- *The trail from Samoset Drive to Torrey Brook (only 275 feet long) is very lightly used and was created by foot-traffic from the surrounding community. The trail linking the proposed Torrey Brook Bridge to the Senior Center trails has not yet been created but this will not impact the SCA trail crew's work (refer to Figure 2's map). The terrain is level and moderately wooded. See Photo 2 on page 13 to see the trail head.*

4.) Please describe the location of the project as accurately as possible (trail names, location, GPS, intersections, etc.) Be as detailed as possible and attach maps as necessary.

See figure 3 (map) for reference.

- **Access point to the work site from Samoset Drive (decimal degree coordinates): 42.100734, -70.865908**
The access point to the worksite is a small wooded patch of Town Land located between houses 67 Samoset Drive and 83 Samoset Drive in Hanover. It is 275 feet from the road to the work site (Torrey Brook). There is enough space for the van to park at this location, off of the road. Please see photo 1 on page 13.
- **Proposed bridge site over Torrey brook (i.e. work site)(decimal degree coordinates): 42.100022, -70.865538**
Please refer to photos of the work site, labeled Photos 3-6 on pages 14 and 15.

5.) Will this project occur within 100' of a wetland or 200' of a perennial stream?

- **Yes**

- The proposed project **will** require Conservation Commission Approval
 The proposed project **will not** require Conservation Commission Approval
 The need for Conservation Commission Approval has not yet been determined

6.) What is the trail or area classification?

- Campground Foot Travel Mountain Bike ATV
 Snowmobile Multi-Use Nordic Skiing Other _____

7.) Number of days required for a 5-person crew to complete project: X 5 Days 10 Days

Campsite and Housing

8.) Please describe the area where the crew will camp or the house they will live in during the work period. Appropriate campsites include: group sites in a campground, semi-private dispersed camping, remote camping. Placing the crew away from restrooms and high-use areas is appreciated.

- *There are a few campsite options for the crew. Please advise us as to your most preferred camping option.*
- *Option 1: Camping at a group site at Wompatuck State Park campground in Hingham, Massachusetts. It is 12 miles from the Hanover work site, and would be a 27 minute commute. This site would have bathroom facilities, showers, potable water, and picnic tables. Effort would be made to make sure the crew is placed away from high-use areas.*
- *Option 2: Camping at Wildlands Trust office property at 675 Long Pond Road, Plymouth, Massachusetts. The Wildlands Trust office has 10 acres of land, including a small two-bedroom cottage. The crew would be allowed to set up camp behind the small cottage, and would be permitted access to the bathroom and shower facilities, and even the kitchen, if they would like! The space behind the cottage is hidden from view of the office, and is buffered on one side by trees. There is cell phone coverage at this site. It is 27 miles from the Hanover worksite and a 35 minute commute.*
- *If neither of these options are preferable, we would be more than happy to arrange remote camping on the South Hanover Town Property directly near the worksite. The parcel of town land surrounding the Senior*

Center is 101 acres and has cell phone coverage throughout. Potable water and bathroom facilities would be accessible from the Senior Center (less than 1 mile from the work site), and we are working on arranging showers at either the YMCA (4.5 miles from the worksite/campsite) or Healthtrax Fitness and Wellness (4 miles from the worksite/campsite). When the SCA built the French's Stream Bridge in 2004, the crew camped on site, and was granted full access to the YMCA's facilities, including showers.

The following questions are answered with Camping Option 1 in mind:

- 9.) Distance from campsite to potable water: Within walking distance, no more than 500 feet
- 10.) Distance from the campsite to where their van can park: Van can be parked at campsite (0 ft.)
- 11.) Distance from the campsite to the work site: 12 miles from Wompatuck State Park to work site (27 minute drive)
- 12.) Is there cell phone coverage at the campsite? Yes No
- 13.) If not, what options are available for emergency communication?
- 14.) Is there cell phone coverage at the worksite? Yes No
- 15.) If not, what options are available for emergency communication?

Materials

16.) What building or other materials do you predict will be necessary to complete this project?

We plan to order our supplies from Cape Cod Lumber in Abington. We will need the following supplies for this bridge project:

Quantity needed	Quantity to order	Dimensions	Length (ft)	Item	Use
3	3	6x14	38	PT Parallam Timber beam	Main support beams/stringer
26	28	2x10	8	PT lumber (4ft wide, 1 piece=18 in. linear)	Decking
11	14	2x6	8	PT lumber (two 4 ft. pieces each)	Railing posts
40	44	2x4	8	PT lumber	Railing handrail (2 low rails)
2	3	2x6	16	PT lumber	Diagonals on underside of bridge
4	5	2x12	8	PT lumber	Between beam braces
66	100	3/8 in.	6 in.	Lag screws	3 per railing post
66	100	3/8 in.		Galvanized washers	For screws
1	1	#10		Galvanized common nails	Decking, railings
10	12	2x6	8	PT lumber (two 4 ft. pieces = 1 step)	Steps 5 per side (may not be needed)
12	16	8x8	8	Landscaping timbers (two 4 ft. pieces= 1 tier)	End pier cribbing (6 per side). Only necessary if steps are needed.
24	36	3/8 in.	10 in.	Timberlok lag screws	Pier cribbing assembly. Only necessary if steps are needed.
24	36	3/8 in.		Galvanized screws	Pier cribbing assembly. Only necessary if steps are needed.

17.)What is the plan for acquiring these materials prior to the crews' arrival onsite?

Since many of these materials are valuable, materials will be purchased by the Hanover Open Space Committee from Cape Cod Lumber in Abington very close to the arrival date of the crew in order to prevent theft of materials. Materials will be delivered to the access to the work site (67/83 Samoset Drive: see photo 1 &2). The three large parallam timber beams (the stringers) will need to be special ordered, but are large enough to be left near the worksite without worry of theft. Once a date has been set for the project, the Hanover Open Space Committee will work to get the materials ordered.

Scheduling

- Our Conservation Work season runs from May 2 – August 12, 2016.
- Work crews consist of 5 members, including the crew leader.
- One work “Hitch” consists of 5 or 10 days in the field. Crews can work for a minimum of one 5-day hitch. The first and last days include travel time from/to Hawley as well as tool clean-up and gear pack-in. Typically crews leave Hawley at 9:00 am on the first day of a hitch and return to Hawley by 1:00 pm on the final day.
- A typical workday is 8 to 10 hours.

Please tell us your preference of dates for your project. Let us know how flexible you are, and if there are specific constraints in your scheduling.

Our project would be best planned between July 3rd and August 12, 2016. Our funding is coming through the Community Preservation Committee (CPC) and funds will not be accessible until this point. Not wanting to put all of our eggs in one basket, we have planned to withdraw money from the existing Hanover Greenway Fund or from Hanover Conservation funds if the CPC does not grant us funding. We will be notified in May 2016 whether or not the money from the CPC has been granted, and will be able to move forward with alternative funding plans at that time, if need be.

Other

Please list any other logistical concerns, project details or other information that will help us understand the scope of the project.

Please enjoy the newspaper articles about the 2004 SCA project in Hanover included as a separate email attachment and the photos of the proposed bridge site and the 2004 SCA project on the following pages.

Please return the completed Crew Request Form as an email attachment by

December 4th, 2015

to:

James Sims
Conservation Service Coordinator
jsims@thesca.org

SCA Massachusetts
466 West Hawley Road
Plainfield, MA 01070

For questions or assistance, please call our office at 413-339-6639

Photos of Proposed Torrey Brook Bridge Site



Photo 1: View of Samoset Drive from Town right-of-way leading to Torrey Brook. Van will park at this site, where black car is parked.

*(decimal degree coordinates): 42.100734,
-70.865908*



Photo 2: View from Samoset Drive looking toward Town right-of-way leading to Torrey Brook. Building materials will be delivered onto the grass, and transported by SCA crew 275 feet down the trail to Torrey Brook.



Photo 3: Unstable plywood bridge at Torrey Brook, constructed by neighbors that will be dismantled and replaced by proposed Torrey Brook Bridge.

(decimal degree coordinates): 42.100022, -70.865538



Photo 4: View bank to bank of proposed Torrey Brook Bridge site.

Photo 5: Straight-on view of proposed Torrey Brook Bridge site.



Photo 6: View of creek bed from unstable plywood bridge at Torrey Brook, looking northeast.



Photos of French's Stream Bridge

Constructed in 2004 with SCA assistance
Same blueprints as proposed Torrey Brook Bridge



Photo 7: View of 37-foot French's Stream bridge, and Hal and Mary from the Hanover Open Space Committee!



Photo 8: Side view of French's Stream bridge railings.



Photo 9: View of steps at French's Stream bridge—may not be necessary for proposed Torrey Brook bridge.



Photo 10: View of crib pier supporting bridge—may not be necessary for proposed Torrey Brook bridge.