



TOWN COUNCIL – AGENDA REQUEST FORM

THIS FORM WILL BECOME PART OF THE BACKGROUND INFORMATION USED BY THE COUNCIL AND PUBLIC

Please submit Agenda Request Form, **including back up information**, 8 days prior to the requested meeting date. **Public Hearing requests must be submitted 20 days prior to requested meeting date to meet publication deadlines** (exceptions may be authorized by the Town Manager, Chairman/Vice Chair).

MEETING INFORMATION

Date Submitted: August 15, 2020

Date of Meeting: September 10, 2020

Submitted by: Daniel Bartus

Department:

Time Required: 15 minutes

Speakers: Daniel Bartus

Background Info. Supplied: Yes: No:

CATEGORY OF BUSINESS (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)

Appointment:	<input type="checkbox"/>	Recognition/Resignation/Retirement:	<input type="checkbox"/>
Public Hearing:	<input type="checkbox"/>	Old Business:	<input type="checkbox"/>
New Business:	<input checked="" type="checkbox"/>	Consent Agenda:	<input type="checkbox"/>
Nonpublic:	<input type="checkbox"/>	Other:	<input type="checkbox"/>

TITLE OF ITEM

Bog Bridge at Horse Hill Eagle Project

DESCRIPTION OF ITEM

Proposal to rebuild Bog Bridge in Horse Hill and seek funding.

REFERENCE (IF KNOWN)

RSA:	Warrant Article:	_____
Charter Article:	Town Meeting:	_____
Other:	N/A	

EQUIPMENT REQUIRED (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)


Projector:	<input type="checkbox"/>	Grant Requirements:	<input type="checkbox"/>
Easel:	<input type="checkbox"/>	Joint Meeting:	<input type="checkbox"/>
Special Seating:	<input type="checkbox"/>	Other:	<input type="checkbox"/>
Laptop:	<input type="checkbox"/>	None:	<input type="checkbox"/>

CONTACT INFORMATION

Name: Daniel Bartus Address _____
 Phone Number _____ Email Address partisantax6@gmail.com

APPROVAL

Town Manager: Yes No: Chair/Vice Chair: Yes No:
 Hold for Meeting Date: _____



**Bog Bridge at Horse Hill
Eagle Project**

Daniel Bartus

Who am I?

- I am a Life scout from troop 424 in Merrimack NH
- I am going into my senior year at Merrimack High School
- I like to mountain bike, fish, camp, and paraglide
- I run cross country, and track, I am also part of Merrimack's science Olympiad team, and our Envirothon team

Introduction

- **What is my project?**
- I want to replace a bridge in Horse Hill Nature Preserve that is falling apart
- **Why did I choose this project?**
- I like to mountain bike and most of the bridges in Horse Hill are new and this is one of the few that is old and falling apart
- **Who does this project benefit?**
- This benefits the Horse Hill Nature Preserve and park users

Steps

- Gaining approvals and planning
- Fundraising, and going before conservation council to ask for funding and possibly car washes, I would be borrowing a fellow scouts car wash signs
- Purchasing materials and bringing them to Horse Hill Nature Preserve
- Remove old bridge and clear and flatten ground with shovels
- Cut and measure materials in the parking lot
- Hand carry materials from the parking lot to the bridge location
- Assemble the bridge on site
- Clean up parking lot and bridge area
- Document the project and report to troop and eagle board

Beneficiary Info

- The Beneficiary is Horse Hill Nature Preserve
- It is a nature preserve in Merrimack spanning over 560 acres of wetlands, streams, ponds and swamps
- Biggest nature preserve in all of Merrimack
- Commonly used for mountain biking, hiking, cross country skiing, snowshoeing and hunting
- Horses only use some trails in the preserve and the trail the bridge is on is not commonly used by horses, so it is not being built for horse use
- The bridge has been cleared to be repaired by Horse Hill

Fundraising Flier

- If I do need to have a car wash for fundraising, I will be using these and four others like it at the cart wash, I will also make a bigger version of the flier for someone to hold as a sign



Help Repair Horse Hill Nature Preserve

Donate to the Merrimack Conservation Commission to help us rebuild a dangerous bridge at Horse Hill Nature Preserve



The current bridge has been pieced together with scrap wood and is falling apart



With your help we can replace the old bridge with a safer and much nicer bridge that is built to last through our New England weather

Below is a proposed model of the new bridge spanning a total of 85 feet

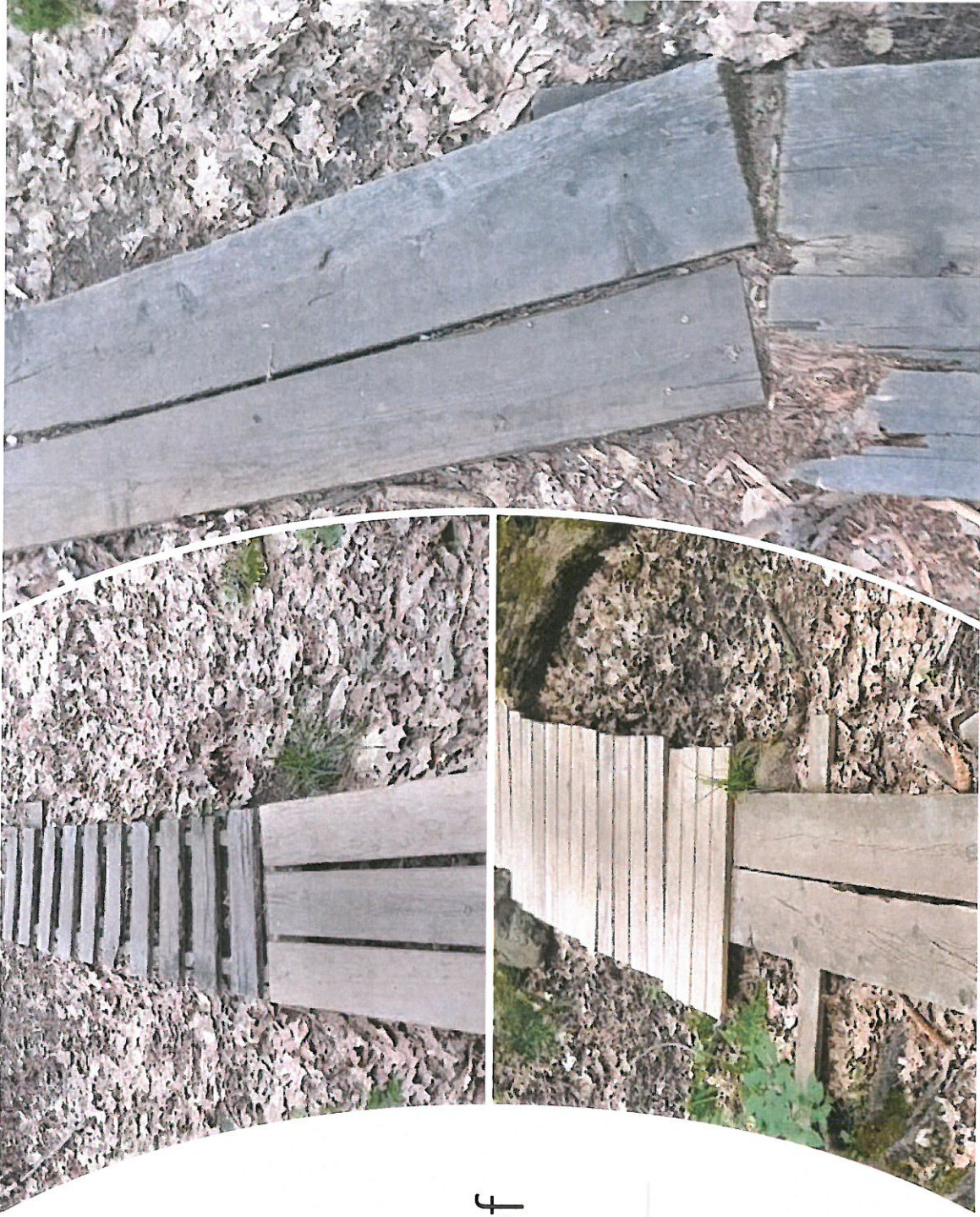


This project is being completed as an Eagle Scout project for Troop 424, all donated funds will go to the Horse Hill Nature Preserve



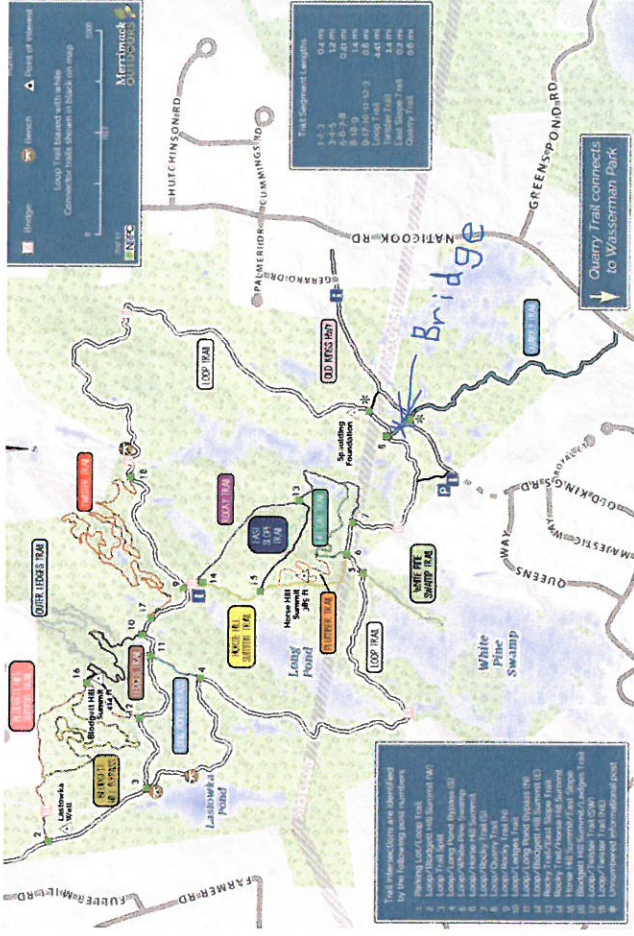
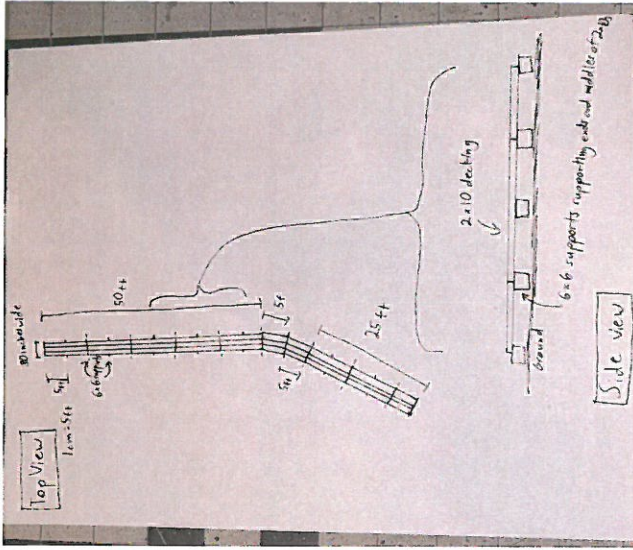
Current State of the Bridge

Bridge is pieced together,
rotting through and falling
apart



Additional Pictures of
the Current Bridge

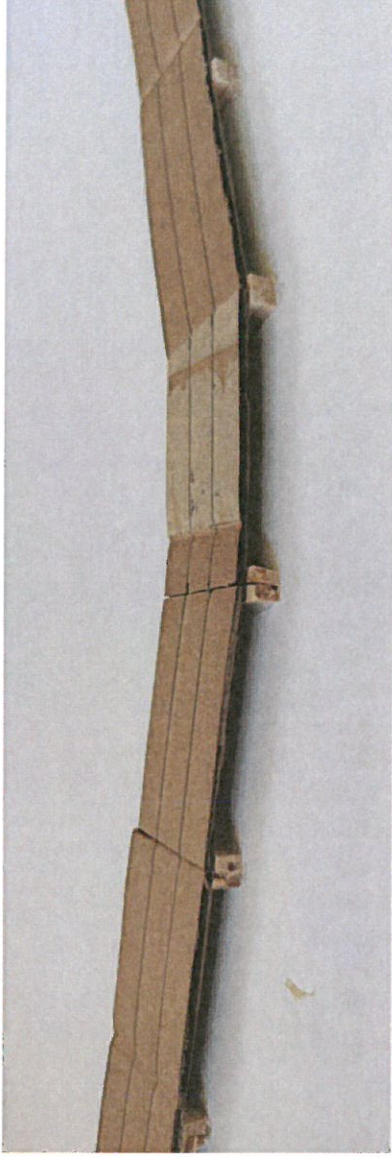




- The map is marked with a blue X to show the location of the bridge
- The parking lot we will be working at is marked with a blue P about 500 feet southwest of the bridge location
- My design will prolong the life of the new bridge allowing for water and leaves to easily drain off by leaving a screw-width gap between each plank, allowing for a dry and clean path for mountain bikers and hikers to cross
- The lifespan of pressure treated wood is over 40 years so the bridge will be in service for many years to come

Plans for New Bridge

Scale Model of
the New
Bridge



Bridge Extensions

Both ends of the bridge will be extended about 10 feet to reach the blue line on the picture to prevent water pooling at the ends of the bridge. Making the new span of the bridge 85 feet and covering the entire span of the bog



Planned Workdays

- Day 1. I will buy materials and have them delivered to Horse Hill through Merrimack DPW
- Day 2. Remove old bridge and flatten out ground
- Day 3. Make final measurements and cut wood
- Day 4. Move cut wood to bridge location and assemble
- Day 5. Clean up parking lot and bridge site
- Volunteers will be sourced from the troop, (scouts and their families) and the local chapter of NEMBA can help to remove the old bridge
- If it is raining, we will postpone the workday to the next planned date and move the following days to later

Leadership

- I will lead a group of local NEMBA members to remove the old bridge
- I will assemble a team of fellow scouts as well as their families to help build the new bridge as small groups working on sections at a time
- Each workday I will be leading a group of between 10 and 20 people to accomplish the task at hand, there will be at least 2 adults present
- The workdays will be about 5 hours long
- I will have a case of water and some packaged snacks for volunteers

Bill of Materials

Materials	Price of one	Quantity needed	Link	Total cost
6x6 lumber	33.57	6	https://www.homedepot.com/p/6-in-x-6-in-x-8-ft-2-Ground-Contact-Pressure-Treated-Timber-6288794/301895519	201.42
2x10 decking	23.98	27	https://www.homedepot.com/p/2-in-x-10-in-x-10-ft-1-Ground-Contact-Pressure-Treated-Lumber-27106001/206937513	647.46
4 inch coated screws	26.97	1	https://www.homedepot.com/p/Grip-Rite-10-x-4-in-Phillips-Bugle-Head-Coarse-Thread-Sharp-Point-Polymer-Coated-Exterior-Screws-5-lbs-Pack-1PTN455/100119892	26.97
				875.85

Tools

- We will be using a miter saw to cut the wood into appropriate lengths
- A tape measure to measure wood
- Shovels to clear ground and remove old bridge
- Drills to drill holes in the wood and to put screws in
- A portable generator to power the miter saw at Horse Hill

Safety Precautions

- We will have a first aid kit containing band aids, butterfly strips, and gauze pads for larger cuts as well as alcohol antiseptic wipes
- As per BSA regulations only adults will be using the miter saw
- We will have bug spray and sunscreen for everyone to use
- We will have at least 2 adults at each workday to comply with YPT
- Everyone will be wearing masks and keeping distance as there is 85 feet of the bridge to work on and we will be working outside
- Volunteers can bring gloves to work with

1 cm = 5 ft 6x6 supports placed every 5 feet

