

Ridgebury Elementary School Educational Trail Update







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November 2020









Purpose of the Educational Trail

- To help students & the community appreciate the world around them
 - Ridgebury School has a vast ecosystem
 - Many opportunities for learning
 - Many different types of trees/shrubs
 - including invasive species
 - Home to numerous animals and insects
- Creation of educational trail
 - Place laminated signs along one of the trails
 - Additional sign(s) at pond area
- Trail information sources
 - Extensive study in 2003 of Ridgebury School ecosystem
 - <u>http://ctert.org/pdfs/Ridgefield_RidgeburySchool.356.pdf</u>
 - Numerous university extension services



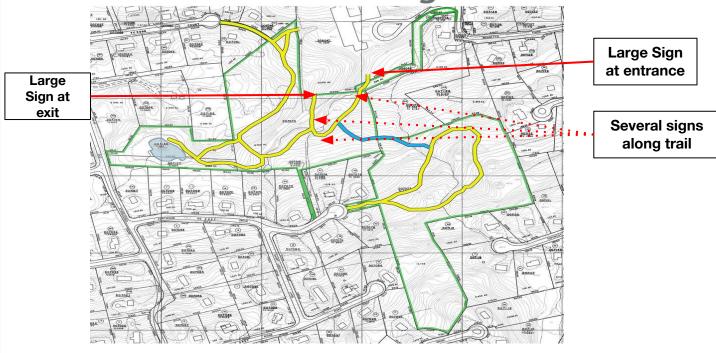






Sign Placement

Ridgebury Slopes/ Peterson Gorge





- 19 smaller signs along trail
 - ➤ originally 10-12

BOY SCOUTS OF AMERICA

Will be along horseshoe trail closest to school







Sign Placement at Pond



- 1-2 large signs at pond area
- **♦** Parks & Rec will carve out area
 - promise to maintain









Examples Of Large Sign



- Large signs to be placed at both entrances of the trail.
- ♦ Size 2' x 3'









Examples of Smaller Signs

Ferns

(Division: Pteridophyta)

There are roughly 12,000 species of ferns in the world today, with about 100 species found in the Northeastern US. Mostly found in the tropics, as they prefer shady, damp environments, ferns are plants that do not have flowers. Like flowering plants, ferns have roots, stems and leaves.



Unlike flowering plants, however, ferns do not have flowers or seeds; instead, they usually reproduce by tiny

Did You Know...

erns were already very old when they flourished over 300 million rears ago during what has been called "The Age of Fems." fodey, there are many kinds of ferns in North America, and they are adapted to nearly all environments - forests, deserts, tropics, alpine



Ferns can have some very unusual forms and structures The illustration on the left shows the parts of a fern. The leaves of the fern are called fronds. The leaf shape, size, texture and complexity can vary considerably as you can see from some of the frond illustrations above.

Japanese stiltgrass

(Microstegium vimineum)

Did You Know...

Stiltgrass is considered one of the most damaging invasive plant species in the country. With its seeds carried by water, it's often found invading marshy areas. The small seeds can also be carried on boot treads and tires, bringing the plant to other trails and roadsides. Because the plant produces so many seeds, it can quickly take over an area, displacing native plants and vegetation. Its seed can remain viable in the soil for up to

accidentally introduced into North America sometime

for porcelain, a possible explanation for its accidental

around 1920. It was previously used as packing material



The leaves are well spaced apart. Japanese Stiltgrass has narrow leaves that are 2-4 inches long with pointed ends and smooth edges. The leaves are well spaced apart. Surprisingly it has weak roots that are easily pulled out of the ground. The plant turns purplish and then brown in the fall.

Sugar Maple

Sugar maple is widely planted as a decorative or shade tree. Flowering in April and May, it produces the "helicopter" winged seeds that mature in autumn. Its leaves are dark green with five distinct sections, and go from green to brilliant yellow, orange, and red in autumn. It is valued for its hard, heavy, and strong wood, used to make furniture and flooring, as well as for tool handles, bowling pins, and musical instruments, Red. gray, and flying squirrels feed on the seeds, buds, twigs, and leaves. Songbirds, woodpeckers, and cavity nesters nest in sugar manle.

It takes about 40 parts maple sap to produce 1 part maple syrup, depending on the sugar content of the sap. This es into 40 gallons of sap to produce 1 gallon of syrup. The first written account of maple syrup production the early 1600's near the state of Maine



The sugar maple is best known for being the largest source of maple syrup - its sap has twice the sug content of other maple species - and for its brightly

19 Small Signs to be placed along trail adjacent to school

Size: 8" x 11"









Sign Supplier & Mounting

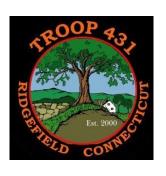
- Signs will be purchased from Pannier Graphics
 - ➤ Large Signs ~ \$265
 - ➤ Small Signs ~ \$45
 - https://panniergraphics.com/
- Sign costs will be taken care of by the Ridgebury Elementary School PTA and private donors
 - Majority of material cost covered by Ridgefield Conservation Commission













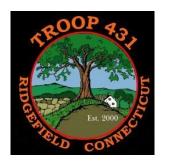
Pricing for Educational Trail

AMT.	MATERIALS - A	PRICE	TOTAL
14	4"x4"x12' treated posts	39.59	554.26
1	Ceramic coated screws	9.89	9.89
1	Post Hole Digger	39.99	39.99
	Materials Subtotal		604.14
	SIGNS - A		
4	36x24x 3/16" plate with 2 4"x4"x7" sleeves	384.00	1536.00
4	36"w x 24"h FE panels	265.00	1060.00
19	12"x 9" FE panels	45.00	855.00
19	12" x 9" x 3/16" plate with 4"x4"x7" sleeve	130.00	2470.00
1	Shipping	200.00	200.00
	Option A Sign Total		6725.14

Option A "Luxury Option"

	MATERIALS - B	PRICE	TOTAL
14	4"x4"x12' treated posts	39.59	554.26
1	Ceramic coated screws	9.89	9.89
1	Post Hole Digger	39.99	39.99
2	Corner Brace Aluminum	12.99	25.98
	Materials Subtotal		630.12
	SIGNS - B		
4	36x24x 3/16" plate with 2 4x4x7" sleeves	384.00	1536.00
4	36"w x 24"h FE panels	265.00	1060.00
19	12"x 9" FE panels	45.00	855.00
19	12x9x 3/16" plate with 1 4x4x7" sleeve	15.00	285.00
1	Shipping	200.00	200.00
A	Option B Sign Total		4566.12

Option B "Basic Option"



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Prepared. For Life.



Sign Installation

- Small signs will have one 4x4 support
- Large signs will have two 4x4 supports

Posthole

- > 2-3 feet deep
- filled with rocks and gravel
- medium stones around top

Mounting

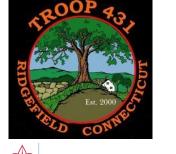
- Weather resistant hardware
- Theft-resistant

Signpost Installation

Anchor bolt







Compressed



Timeline

- April July 2020 > Prepare sign information
- August Sept. 2020 > Graphic design work
- **♦** September 2020 > Work on sign placement
- October 2020 > Finalize design & wording
 - walk trail with Conservation Commission
- **♦ November 2020 > Order signs**
- **♦ November 2020 > Prepare & install sign posts**
- November Dec. 2020 > Prep & install signs





