

BASBANES WETLAND CONSULTING

39 Hardy St.
Dunstable, MA 01827

Planting Plan
for Riverfront Area
78 Mountain Rd Burlington, MA

May 9, 2023

The following is a planting plan for the altered areas, outside of the proposed permanent alteration associated with the new house, on the property at 78 Mountain Road. Presently the area is bare of vegetation due to the tree cutting, removal of understory, and some soil disturbance. The intent is to install tree and shrub plantings then seed to provide soil stabilization, wildlife habitat and enhanced value to the outer riverfront area.

All of the proposed shrubs and trees are native species and have been chosen for a dry, open environment.

<u>#</u>	<u>Species</u>	<u>Size</u>	<u>Location</u>
<u>Trees</u>			
8	Arborvitae	1" caliper	Left lot line- see plan
2	Red Oak/Quercus rubra	1" caliper	edge of EC- see plan
4	Eastern Red Cedar/Juniperis virginiana	1" caliper	edge of EC- see plan
<u>Shrubs</u>			
6	Chokecherry/Prunus virginiana	2'-4'	throughout- see plan
6	Nannyberry/Viburnum lentago	2'-4'	"
6	Huckleberry/Gaylussacia baccata	2'-4'	"
3	Smooth Sumac/Rhus glabra	2'-4'	"
3	Common Juniper/Juniperus communis	2'-4'	"

Trees are to be installed per plan. Shrubs are to be installed randomly 10+/- f.o.c. throughout area. The area of exposed soil in the easement is to be seeded with a **native conservation seed mix**. Recommended seed mixes include the Showy Northeast Native Wildflower Mix (ERNMX 153-1) or the Biomass Production & Wildlife Habitat Mix (ERNMX-115) from Ernst Conservation Seeds (www.ernstseed.com). See attached seed mix information sheets.

If you have any questions, please do not hesitate to contact me at lbasbanes@gmail.com.

Sincerely,



Leah D. Basbanes, M.A.
Wetland Consultant/Biologist

Ernst Conservation Seeds

8884 Mercer Pike
Meadville, PA 16335
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www.ernstseed.com

Biodiverse Polyculture Mix for Biomass Production & Wildlife Habitat - ERNMX-115

Botanical Name Common Name Price/Lb

36.00 % *Andropogon gerardii*, 'Niagara' Big Bluestem, 'Niagara' 14.40
20.00 % *Panicum virgatum*, 'RC Chippewa' Switchgrass, 'RC Chippewa' 19.20
18.20 % *Panicum virgatum*, 'Cave-In-Rock' Switchgrass, 'Cave-In-Rock' 14.40
18.20 % *Panicum virgatum*, 'Shawnee' Switchgrass, 'Shawnee' 14.40
3.00 % *Chamaecrista fasciculata*, PA Ecotype Partridge Pea, PA Ecotype 9.44
2.00 % *Heliopsis helianthoides*, PA Ecotype Oxeye Sunflower, PA Ecotype 35.70
1.60 % *Desmodium canadense*, PA Ecotype Showy Ticktrefoil, PA Ecotype 50.84
0.80 % *Senna hebecarpa*, VA & WV Ecotype Wild Senna, VA & WV Ecotype 29.68
0.20 % *Asclepias syriaca* Common Milkweed 107.96

100.00 % Mix Price/Lb PLS: \$16.53

Seeding Rate: 10 PLS lb per acre 30 lbs/acre of a cover crop.

For a cover crop use either grain oats (1 Jan to 31 Jul) or grain rye (1 Aug to 31 Dec).

Biomass; Uplands & Meadows; Wildlife Habitat & Food Plots - Herbaceous Perennial

The Biodiverse Polyculture Mix for Biomass Production is a warm season grass mix for biomass production with legumes to provide nitrogen to the grass. The flowers in this mix support pollinators including monarch butterflies. Mix formulations are subject to change without notice depending upon availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Showy Northeast Native Wildflower Mix - ERNMX-153-1

Botanical Name Common Name Price/Lb

20.00 % *Echinacea purpurea* Purple Coneflower 43.20
12.00 % *Rudbeckia hirta* Blackeyed Susan 31.20
10.00 % *Coreopsis lanceolata* Lanceleaf Coreopsis 28.80
7.00 % *Asclepias tuberosa*, PA Ecotype Butterfly Milkweed, PA Ecotype 312.00
7.00 % *Chamaecrista fasciculata*, PA Ecotype Partridge Pea, PA Ecotype 7.20
6.00 % *Heliopsis helianthoides*, PA Ecotype Oxeye Sunflower, PA Ecotype 33.60
5.00 % *Liatris spicata* Marsh Blazing Star 252.00
5.00 % *Tradescantia ohioensis*, PA Ecotype Ohio Spiderwort, PA Ecotype 192.00
4.90 % *Penstemon digitalis*, PA Ecotype Tall White Beardtongue, PA Ecotype 168.00
4.00 % *Aster oblongifolius*, PA Ecotype Aromatic Aster, PA Ecotype 336.00
3.00 % *Zizia aurea*, PA Ecotype Golden Alexanders, PA Ecotype 72.00
2.50 % *Aster prenanthoides*, PA Ecotype Zigzag Aster, PA Ecotype 432.00
2.40 % *Pycnanthemum tenuifolium* Narrowleaf Mountainmint 168.00
2.00 % *Aster laevis*, NY Ecotype Smooth Blue Aster, NY Ecotype 336.00
2.00 % *Aster novae-angliae*, PA Ecotype New England Aster, PA Ecotype 336.00
2.00 % *Baptisia australis*, Southern WV Ecotype Blue False Indigo, Southern WV Ecotype 96.00
1.50 % *Senna hebecarpa*, VA & WV Ecotype Wild Senna, VA & WV Ecotype 28.80
1.00 % *Monarda fistulosa*, Fort Indiantown Gap-PA Ecotype Wild Bergamot, Fort Indiantown Gap-PA Ecotype 96.00
0.80 % *Solidago nemoralis*, PA Ecotype Gray Goldenrod, PA Ecotype 264.00
0.50 % *Aster pilosus*, PA Ecotype Heath Aster, PA Ecotype 264.00

0.50 % Senna marilandica Maryland Senna 28.80
0.40 % Oenothera fruticosa var. fruticosa Sundrops 360.00
0.20 % Solidago bicolor, PA Ecotype White Goldenrod, PA Ecotype 240.00
0.10 % Penstemon hirsutus Hairy Beardtongue 480.00
0.10 % Solidago juncea, PA Ecotype Early Goldenrod, PA Ecotype 336.00
0.10 % Solidago odora, PA Ecotype Licorice Scented Goldenrod, PA Ecotype 384.00

100.00 % Mix Price/Lb Bulk: \$123.94

Seeding Rate: 5-10 lb per acre with 30 lb per acre of a cover crop (grain oats, Jan 1-Aug 1; grain rye, Aug 1-Jan 1)

Pollinator Favorites; Uplands & Meadows

Contains the showiest native forbs common in the Northeast. Excellent for wildlife food and shelter, including pollinators. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.