

INTERSTATE 95
NORTH BOUND

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OPEN SPACELAND AREA	BUFFER PLANTINGS	CENTRAL GREEN
<ul style="list-style-type: none"> NE POLYSPICE MATRIFOLIUM AND SEED MIX (1.0 LB/100 SQ FT) - NE WETLAND PLANTS NE CONSERVATION WILDLIFE MIX 1 LB/100 SQ FT - NE WETLAND PLANTS SPRINKY NORTHEASTERN WILDLIFE MIX (LOWER & GRASS MIX ERNST NEW ENGLAND WETLAND 1.0 LB/250 SQ FT - NE WETLAND PLANTS NE WETLAND PLANTS OPEN LAWN FESCUE BLEND 	<ul style="list-style-type: none"> SHADE TREES: QTY 3 EVERGREEN TREES: QTY 46 FLOWERING TREES: QTY 4 SHRUBS: QTY 21 EVERGREEN BUFFER: QTY 19 	<ul style="list-style-type: none"> SHADE TREES FLOWERING TREES SHRUBS EVERGREEN BUFFER

Issued:	For review
1 5-7-17	For review
2 5-16-17	For review

OPERATIONS & MAINTENANCE PLAN
Scale: 1"=100'-0"

PORT PLACE
by Evergreen Commons, LLC
Newburyport, MA

KD Turner Design
landscape architecture
27 High St.
Newburyport, MA 01950
ph) 781-632-6004

	AREA 1 WETLAND	AREA 2 RESTORATION	AREA 3 STORMWATER	AREA 4 POLLINATOR MEADOW	AREA 5 OPEN/MANAGED LAWN	AREA 6 MANICURED AND BUFFER AREAS
PLANT MATERIAL	NATIVE NE Wetmix, native shrubs and trees	NATIVE NE Roadside Matrix Upland Seed Mix, NE Conservation/Wildlife	NATIVE NE Roadside Matrix Upland Seed Mix	NATIVE Showy NE Native Wildflower or equivalent seed mix	NATIVE Fescue blend	NATIVE & CULTIVATED Lawn, trees, evergreens, ornamentals
ACCESS	NONE	PUBLIC	PUBLIC	PUBLIC	PUBLIC	PRIVATE
MANAGEMENT	ANNUAL Inspect annually. Maintenance limited to restoration and plant health, including invasive removal and replanting of native plants as needed. Herbicides to be used only in accordance with a City approved plan.	BI-ANNUAL Inspect spring and fall. Maintenance limited to plant health, including invasive removal and replanting of native plants as needed. Herbicides to be used only in accordance with a City approved plan.	SEE STORMWATER O&M Limited to functional issues and plant health, including measures in Stormwater O&M manual including invasive removal and replanting of native plants as needed. Herbicides to be used only in accordance with a City approved plan.	ANNUAL Inspect spring and fall, maintenance limited to maintaining meadow health. After establishment, mowing annually in the spring and invasive removal or reseeding efforts. See the separate protocol for meadow seeding and initial mowing guidelines. Herbicides to be used only in accordance with a City approved plan.	BI-WEEKLY Bi-weekly mowing during the growing season. Best management practices including organic lawn fertilizer and organic controls. Overseeding in spring and fall as needed. Invasive removal and replanting of native plants as needed. Herbicides to be used only in accordance with a City approved plan.	WEEKLY & AS NEEDED Weekly mowing of lawn areas during the growing season. Regular application of organic lawn fertilizer. Required maintenance of vegetation including organic controls. Pruning as needed.
RESOURCE VALUE	NATURAL RESOURCE Wildlife, flood storage, visual	NATURAL RESOURCE Wildlife, visual	STORMWATER Wildlife, visual	NATURAL RESOURCE Wildlife, visual	NATURAL RESOURCE Wildlife, visual	NATURAL RESOURCE Visual
USE	PASSIVE Visual enjoyment Nature study	PASSIVE Visual enjoyment Nature study	PASSIVE Visual enjoyment Nature study Water quality	PASSIVE Visual enjoyment Nature study	PASSIVE AND ACTIVE Visual enjoyment Nature study Recreation	PASSIVE AND ACTIVE Visual enjoyment Recreation Group & family activities

The following guidance should be used in establishing the pollinator area. It is important that the methods described be followed to maximize the successful establishment of the meadow area. The result will be a low maintenance meadow with high value to wildlife and pollinators.

Apply a cover crop with the pollinator seed mix.

A cover crop seed to be added based on time of year. For a cover crop use either grain oats (1 Jan to 31 Aug) or grain rye (1 Sep to 31 Dec).

The cover crop is necessary to stabilize soil to protect against erosion. Natives in the seed mix are relatively slow establishing. Growth and stubble from cover crops helps to control erosion until the natives have grown sufficiently to do so on their own. Note that in addition, cover crops serve as an “experimental control” for a planting a meadow. If they grow, usually a site will support a meadow. If they do not, then conditions need to be evaluated and adjusted before a successful meadow can be established.

Applying the seed

Tips When Broadcasting Native Seed Mixes:

1. Humans are predisposed to planting 100 lbs of seed per acre. With natives this would be too much. To fool your brain, mix your seed mix and cover crop with Kitty litter (non-scented cheap clay litter). Add the number of pounds per acre needed for native seed plus the rate of application for the cover per acre and subtract from 100. Add this amount of litter in pounds to the seed per acre. This will give you a mix that can be comfortably applied at 100 lbs/acre.
2. Divide mix in half and make two passes. The first beginning in the southwest corner, and proceeding on a south to north, west to east weave. The second would begin in the northeast corner of the field and proceed on an east to west, north to south weave. This will ensure a uniform distribution of seed.
3. When over seeding you can use a lighter amount of Kitty litter.

Post Planting Maintenance 1st Growing Season:

1. When growth in a meadow reaches 18 to 24 inches, trim it to 8 inches. This typically must be done no less than one time, and sometimes three times in the first growing season. Trimming below 4 inches will kill your native seedlings. No trimming should occur after mid-September.
2. Spot spray or hand pull problem weeds. Be particularly careful to kill perennial broadleaf species, vines and any invasive woody species. This is best done prior to mid-July. Any herbicide use must be approved by the City prior to use.

Post Planting Maintenance 2nd and Subsequent Growing Seasons:

1. Trim the meadow to 2 inches prior to new growth exceeding 4 inches in the spring.
2. Spot spray or hand pull problem weeds (Any herbicide use must be approved by the City prior to use.). This is best done prior to mid-July.