

Town of Longmeadow
 Massachusetts
Community Preservation Committee



Telephone 413-565-4110
 Fax 413-565-4112

20 Williams Street
 Longmeadow, MA 01106

www.longmeadow.org

Application for
Community Preservation Act Funding

Instructions

1. Review attached Community Preservation Act (CPA) funding eligibility, selection criteria (Appendix), and application.
2. Prepare and submit 10 typed and double-sided copies of the application form and project description to the CPC, c/o the Town Clerk's Office, Town Hall, 20 Williams St., Longmeadow, MA 01106.
3. The Community Preservation Committee (CPC) will accept project proposals **through December 3, 2019** for possible consideration at the following Annual Town Meeting.
4. The CPC will review all applications and schedule a meeting with each applicant to discuss its proposal.
 - a. The CPC may ask for more information before deciding to recommend the proposal for funding.
 - b. The CPC may request that you present your proposal at a public hearing.
5. If the project is selected for a funding recommendation, the CPC will submit it to Town Meeting.
6. Town Meeting has the sole authority to fund projects.

** Please note that the Committee reserves the right to modify these procedures and timeframe. Emergency applications will be accepted at the discretion of the CPC. The committee reserves the right to reject applications that are incomplete or late.*

Application Form

For CPC Use: Project # _____
 Received on: ___/___/___ Received by: _____
 Reviewed on: ___/___/___ Determination: _____

Applicant Information

Project Title: Japanese Knotweed Management Plan in Conservation Land		
CPA Funding Request: \$ 4,800.00	Total Cost of Proposed Project: \$ 4,800.00	
Applicant Name: Conservation Commission	Contact Name: Albert Laakso	
Mailing Address: 20 Williams Street	Community Preservation Act Category <i>Please check all that apply:</i>	<input type="checkbox"/> Community Housing
City, State, Zip Code: Longmeadow, MA 01106		<input type="checkbox"/> Historic Preservation
Phone/Fax: (413) 565-4100, ext. 1323		<input checked="" type="checkbox"/> Open Space
Email &/or Website: concom@longmeadow.org		<input type="checkbox"/> Recreation

Please attach a project description and budget, as indicated on page 2.

Project Description

Proposals must answer the following questions. Include supporting materials as necessary.

1. **Goals:** What are the goals of the proposed project?
2. **Community Need:** Why is this project important? How does it meet the objectives outlined in existing town plans?
3. **Community Support:** Describe the community support for this project. Include letters of support, if any.
4. **Action Plan & Timeline:** What is the schedule for project implementation, including start and completion dates?
5. **Maintenance:** If ongoing maintenance is required for your project, how will it be funded?
6. **Preservation:** CPA projects may require deed restrictions. For more information, please see the Community Preservation Coalition website at <http://www.communitypreservation.org/index.cfm>. If applicable, attach a copy of the proposed deed restriction language.

Additional Information

Provide the following additional information, as applicable:

- A. Documentation that you have (or will have) control over the site, such as Purchase and Sale Agreement, option or deed.
- B. Evidence that the project does not violate any zoning ordinance or any other laws or regulations.
- C. Evidence that the proposed site is free of hazardous materials or that there is a plan for remediation.
- D. Evidence that appropriate professional standards will be followed if construction, restoration or rehabilitation is proposed.

Budget

1. **Budget:** What is the total budget for the project? All expenditures must be clearly identified.
2. **Other funding:** Specify what additional funding sources (public/private/in-kind) and amounts are available, committed, or under consideration. Include commitment letters, if available, and describe any other attempts to secure funding for this project.
3. **Mandated 'Construction' expenses:** If your proposed project involves construction, installation, demolition, maintenance or repair to a building or public work (horizontal construction), the payment of Prevailing Wage to the construction workers is mandated and will be enforced. Contact the Purchasing Department (413-565-4185) to obtain the prevailing wage rate sheet for use in obtaining realistic contractor quotes. This will help to ensure that your budget request is appropriate to what the actual expense will be.

Please send **Application Form and Project Description Proposal**, by the first Tuesday in December, to:

Longmeadow Community Preservation Committee
c/o Town Clerk's Office
Longmeadow Town Hall
20 Williams Street
Longmeadow, MA 01106

Thank you for your proposal!



LONGMEADOW CONSERVATION COMMISSION

Community Preservation Committee FY2020 Application for Community Preservation Act Funding

Proposal submitted by: Longmeadow Conservation Commission
Project Name: Japanese Knotweed Management Plan in Conservation Land located on Chestnut Rd. at Barrington Rd.

1. About the project:

At the Nov. 28, 2006 town meeting it was voted to transfer 1.2 acres of land at the intersection of Barrington Rd. and Chestnut Rd. to the care, custody and control of the Conservation Commission as open land. Such land is identified in the Assessors Vision database as PID numbers 10, 11, 410, 429, 1203 and 4786. The lots are contiguous and bordered by Chestnut Rd., Barrington Rd. and on the west by the paper street Riverview Court.

These properties consist of steep forested unbuildable lots that serve as a watershed for Raspberry Brook. Unfortunately, this property has become infested with an invasive plant species known as Japanese Knotweed which grows rapidly and crowds out native plants and is located alongside neighboring households. Japanese Knotweed is a very destructive plant whose roots can uplift sidewalks and penetrate house foundations. The Department of Public Works has been forced to cut back the plants overhanging the road to maintain the right of way only to have them grow back rapidly. The town does not have the expertise and systems in place to control the spread of Japanese Knotweed. This application requests funds to employ a registered invasive plant species control company to cut and treat the Japanese Knotweed with herbicides to remove the invasive plant from the site. It is expected that three years of treatment will be required for this removal effort.

2. Project Goals:

The goal of this project is to control, to the extent possible, the presence of Japanese Knotweed currently occurring on Chestnut Road Conservation Land owned by the Town of Longmeadow and restore the biological integrity of this ecologically important site.

3. Community Need:

The Chestnut Road Conservation Land is part of a wildlife throughway to the Conservation Land and Silvio O. Conte Wildlife Refuge which border the Connecticut River. The Longmeadow Conservation Lands are part of the town's Open Space and are used for outdoor recreation including bird watching, dog walking, running and snowshoeing. The increasingly widespread presence of invasive species including Japanese knotweed threatens both the function and the value of our Open Space and these habitats.

4. Community Support:

This project has received the support of the Longmeadow Conservation Commission and the Tree Warden.

5. Action Plan, Timeline & Maintenance:

The treatment plan would be spread over a period of nearly three years. Our experience has proven to us that a single year of treatment is not sufficient to achieve an acceptable level of control, as seedlings and new plants from seed in the soil will continue to appear.

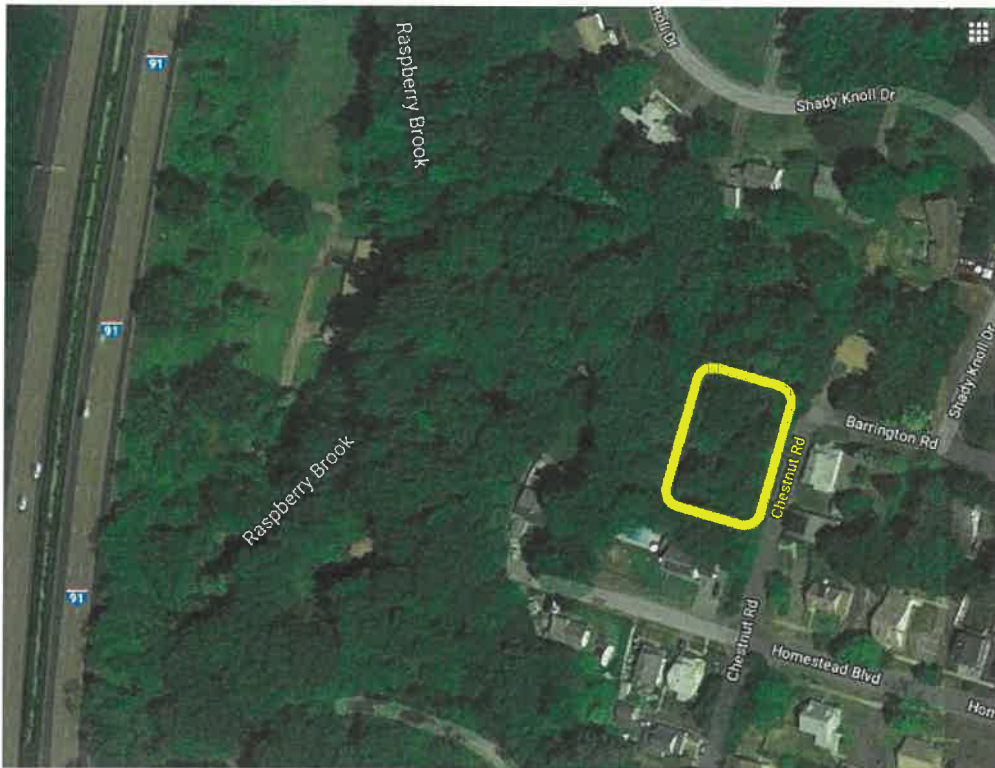
The first phase involves cutting and then treating with herbicide (foliar spray, cut stem or stem injection). Subsequent work will consist of monitoring treated populations and conducting follow-up herbicide applications as needed. All necessary permits (i.e., from Longmeadow Conservation Commission) pertinent to these activities will have to be secured prior to herbicide treatments.

The nature of invasive species requires constant vigilance to ensure that the Japanese Knotweed does not become reestablished in the project area. Any follow-up treatments needed to maintain the natural integrity of the land and beyond the scope of this project will be considered using the annual budget of the Longmeadow Conservation Commission.

7. Cost:

The total cost for the execution of the Invasive Species Management Plan is \$4,800.00 for a total of seven (7) tasks that will be executed between July 2020 and September 2022; detailed description of the costs and timeline has been provided by the contractor and is included in this application.

8. Images from the conservation land in question:



Aerial view of Conservation Land; area to be treated is highlighted in yellow



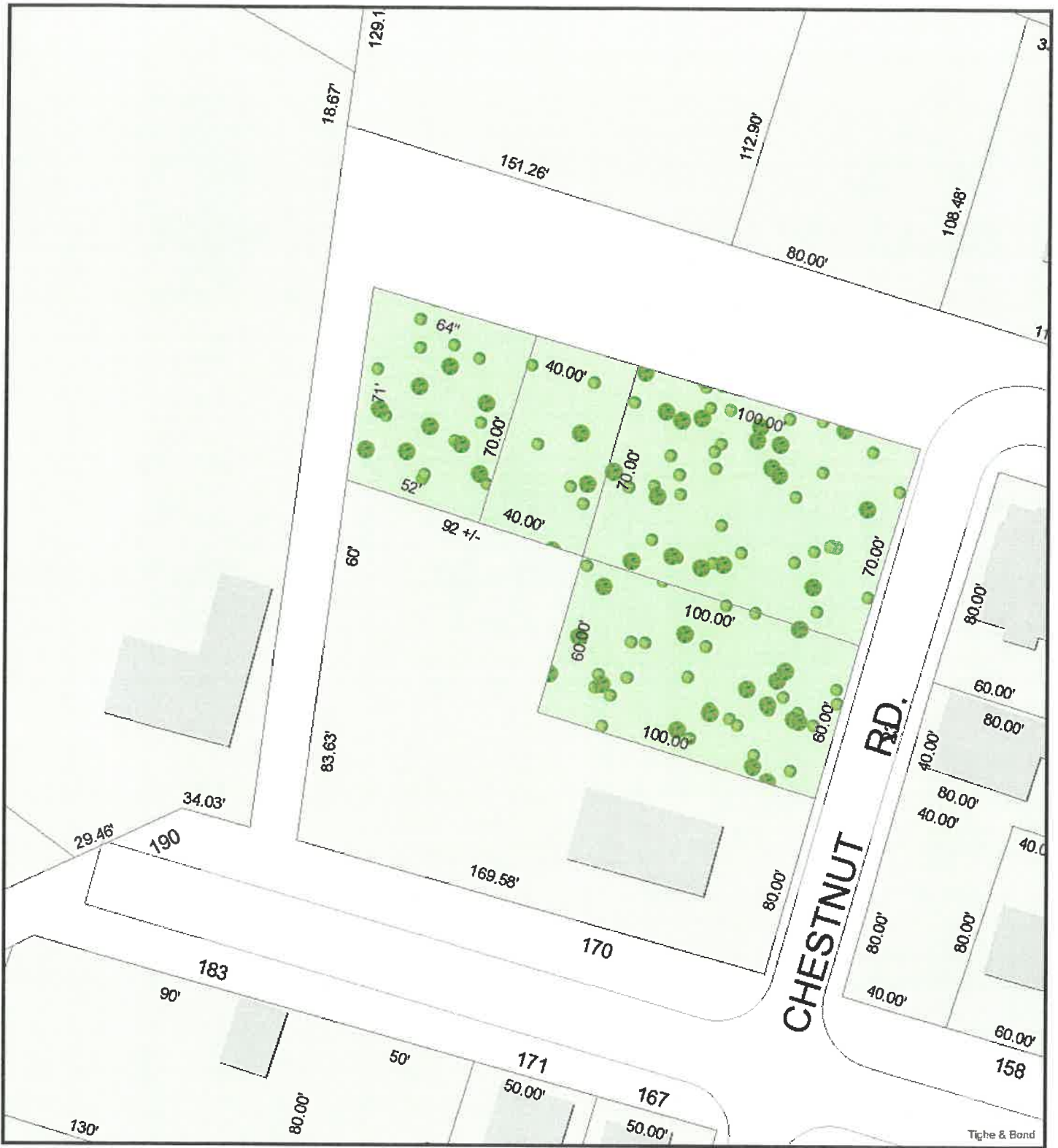
View from Chestnut Rd., looking South



View from Chestnut Rd., looking North



Up-close view of Japanese Knotweed



Conservation Land

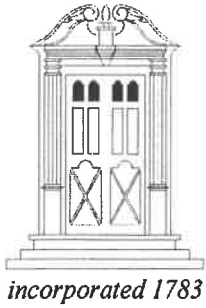
11/28/2019 11:39:47 AM

Scale: 1"=50'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.





Town of

LONGMEADOW, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS

31 Pondsides Road - 01106

TEL (413) 567-3400 ~ FAX (413) 567-9018

e-mail: treewarden@longmeadow.org



December 2, 2019

Community Preservation Committee
Town of Longmeadow
20 Williams Street
Longmeadow, MA 01106

Dear Members of the Committee:

I write in full support of the Conservation Commission's application for funding to control or eradicate Japanese Knotweed from Conservation land adjoining Chestnut Road. Japanese Knotweed has the distinction of being one of only 13 shrubs to make the International Union for Conservation of Nature Invasive Species Specialist Group list of the world's 100 worst invasive alien species. Knotweed not only threatens native flora and fauna through competition, it causes increased erosion by destabilizing stream banks.

During the last year I have become alarmed at the way that knotweed is spreading in our community. Eradication of knotweed requires a multiyear commitment of resources and expertise. I have recently examined the patch of knotweed growing along Chestnut Road, and I believe that eradication from this location is an achievable goal.

If approved, the project will provide valuable information guiding other knotweed projects throughout Longmeadow.

Sincerely,

David Marinelli
Longmeadow Tree Warden



LAND STEWARDSHIP, INC.

December 2nd, 2019

Albert Laakso
Longmeadow Conservation Commission
20 Williams Street
Longmeadow, MA 01106

PROPOSAL: Invasive Plant Management, Chestnut Road Conservation Land, Longmeadow, MA

Outlined below is an estimated budget for services associated with managing a linear roadside area of Japanese knotweed (*Polygonum cuspidatum*) on Chestnut Road in Longmeadow. The region is approximately 200' x 10' = 2,000 square feet.

Upon your authorization, Land Stewardship, Inc. (LSI) will provide the following services:

Management Strategy

2020

- Task 1. Herbicide stem injection treatment (July). Stem inject individual Japanese knotweed stems > ½" diameter with JK Injection System. \$1,200.00
- Task 2. Initial foliar herbicide application (August). Stems < ½" diameter will be foliar spot treated with specialized backpack sprayers fitted with ultra-low volume nozzles for targeted application procedure. \$600.00
- Task 3. Removal (November). Dead knotweed plant material will be cut and hauled for appropriate off-site disposal. \$1,200.00
- Task 4. Soil preparation (November). We will scarify to soil using hand rakes or a mechanical power rake as needed. Only the top 2 inches of soil will be loosened in order to create a seed bed. \$400.00
- Task 5. Seeding (November). A seed mix will be broadcast throughout the knotweed management unit along with a light weed-free straw mulch. We will mechanically broadcast a native seed mix (New England Roadside Matrix Upland Seed Mix - see attachment). Seed will be rolled and a weed-free straw will be dispersed over the seeded area. \$600.00

Land Stewardship, Inc.
PO Box 511
Turners Falls, Massachusetts 01376

413-367-5292
732-474-9757 (fax)
info@landstewardshipinc.com

2021

- Task 6. Late August/September. As a follow-up treatment, knotweed will be hand-wiped using the glove technique described below (Figure 2), or wiped with a Side Swipe Pro Applicator® (Figure 3). \$400.00

2022

- Task 7. Late August/September. As a follow-up treatment, knotweed will be hand-wiped using the glove technique described below (Figure 2), or wiped with a Side Swipe Pro Applicator® (Figure 3). \$400.00

TOTAL COST: \$4,800.00

Targeted Herbicide Application Methods

We use targeted methods when appropriate to ensure that herbicide is applied carefully only to Japanese knotweed. A brief description of each method may be found below.

1. **Stem injection:** Using the JK Injection System®, the technician injects each individual knotweed cane with 5 cc/ml of the wetland approved glyphosate-based herbicide *Rodeo*® (EPA Reg. No. 62719-324). The herbicide is injected at a 100% concentration, as recommended in the literature and on the supplemental herbicide label.



Figure 1. Stem injection of Japanese knotweed

2. **Glove technique (wipe):** To conduct the “glove” technique, an herbicide applicator wears a chemical resistant glove underneath an absorbent cotton glove. The applicator moistens the glove with herbicide from hand-pumped low volume

backpack sprayer equipped with specialized ultra-low-volume nozzles backpack sprayer into the glove, and then wipes each stem and leaf of the individual knotweed plants. A solution of Rodeo, wetland non-ionic surfactant and blue indicator dye is used.



Figure 2. The “glove” technique.

3. The Side Swipe® Pro method: The herbicide applicator handles the side swipe Pro like a hockey stick and precisely and selectively applies herbicide to the target plants. The wipe-on applicator pad assures no drift or overspray. The protective shield over the top of the applicator pad permits safe herbicide application around desirable plants and shrubs.



Figure 3. The SideSwipe® Pro tool.

Success Criteria

Objective: 80% (or better) knotweed control resulting from 2020 treatments; 95% resulting from 2021 follow-up work; and 99% resulting from 2022 follow-up work. We will establish photo monitoring plots prior to management work and will monitor the results of treatments each year over the course of the project.

Stewardship & Maintenance

Successful Japanese knotweed management requires a long-term commitment and will need to be ongoing in order to protect the investment in our three year management regime. We guarantee 99% control; however, you will need to consider the 1% of plants that will reemerge every season and will try to reestablish themselves on the site. The area will need to be watched carefully by scouting for new patches and individual plants even after the three years of treatment. Options for managing knotweed after the initial three years usually consist of hand pulling, spot herbicide wiping, and/or cutting.

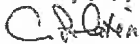
If this proposal is acceptable, please authorize with your signature in the space provided and mail a copy back to the address below.

Signature

Date

If you have any questions, please call the office at 413-367-5292 or email me at chris@landstewardshipinc.com.

Sincerely yours,



Christopher Polatin, M.S., CERP
Principal & Restoration Ecologist

We maintain the following insurance policies:

- General liability
- Workers compensation
- Auto

We will provide a certificate of insurance upon commencement of contract.

We employ a crew of ecological restoration technicians who are thoroughly trained in invasive and native plant identification. Many of our crew members have at least an undergraduate education in a natural resource field or significant experiential education in the field (horticulture, landscape management, arboriculture or agriculture). Our crew members are all Massachusetts licensed pesticide applicators and have obtained or are working to obtain certificates in Invasive Plant Management through UMASS Extension.

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002

PHONE: 413-548-8000 FAX 413-549-4000

EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Roadside Matrix Upland Seed Mix

Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Desmodium paniculatum</i>	Panicleleaf Tick Trefoil	
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Rhus typhina</i>	Staghorn Sumac	
<i>Cornus racemosa</i>	Grey Dogwood	FAC
<i>Cornus amomum</i>	Silky Dogwood	FACW
<i>Oenothera biennis</i>	Evening Primrose	FACU-
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Eupatorium fistulosum (Eutrochium fistulosum)</i>	Hollow-Stem Joe Pye Weed	FACW

PRICE PER LB. \$69.00 MIN. QUANTITY 1 LBS.

TOTAL: \$69.00

APPLY: 35 LBS/ACRE :1250 sq ft/lb

The New England Roadside Matrix Mixes are designed for use along roads and highways. These mixes are unusual in that they contain native grasses, wildflowers, and shrubs that are blended together as a native matrix seed mix. In areas that receive frequent mowing, the cold season grasses will dominate, such as those areas closest to the roadway shoulder. In areas farther from the road, which may be mown only once each year, or in hard to mow areas, such as around sign posts, the wildflower component will become dominant. Along cuts and side slopes which may never be mown, the shrub component will add diversity and beauty to the roadside plantings. It is a particularly appropriate seed mix for roadsides, industrial sites, or cut and fill slopes. These mixes may be applied by hydroseeding, or by mechanical spreader. Always apply on a clean, weed-free seed bed. After sowing, lightly rake or roll the site to improve seed-to-soil contact. Best results are obtained with a mid-late spring seeding. Summer seeding will benefit from a light mulching of clean, weed-free straw to conserve soil moisture.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.

