

**Massachusetts Department of Conservation and Recreation
Division of Water Supply Protection, Office of Watershed Management
*Forest Management Project Summary***

Project Title: Red Pine Patches 122 to 62

DWSP Harvest Permit Number: 4398

DWSP Proposal ID: WR-19-19-1

DCR Forest Cutting Plan File Number: 021-9787-19

Site Information

Watershed: Ware River Watershed

Town(s): Barre

Acres: 10

Nearest Road: Old Worcester Rd, and Granger Rd

Natural Heritage Atlas overlap?: Yes, seasonal restrictions on part of harvest

Public Drinking Water Supply Watershed?: Yes

Forest Types: Red Pine

Area of Critical Environmental Concern (ACEC)?: No

Soils: 253B and E Hinckley loam sand, 254 A and C Merrimac fine sandy loam, 925 E Charlton-Chatfield-Hollis, and 910C Woodbridge-Paxton association

Wetland Resources: Several streams and a wetland are in the harvest area.

Vernal Pools: None known

Harvest Information

Harvest Start Date: 5/13/19

Harvest End Date: 12/19/19

Number of Wetland Crossings: None

Number of Stream Crossings: 2

Best Management Practices Applied

Stream Crossings: There are two stream crossings.

Filter Strips: There is harvesting in a filter strip.

Wetland Crossings: There are no wetland crossings.

Harvesting in Wetlands: There is no harvesting in wetlands.

DWSP Forester supervising this harvest

Name: Ken Canfield

Forester License number: 431

Phone number: 857 274 7090

Email: Kenneth.canfield@mass.gov

Narrative

General Description/Forest Composition/History

The harvest area is located in the town of Barre. It consists of several patches of mature roadside red pine scattered from Rt 62 and Granger Rd, south down Granger Rd, to Old Worcester Rd. The red pine was planted in old fields in the late 1930's.

Tree species present are red pine in the overstory, along with some red maple and red oak. The understory consists of red and white oak, eastern white pine, hemlock, black birch, red maple, and black cherry.

Glossy buckthorn and Japanese barberry are present, particularly along Old Worcester Rd. Some invasive shrubs were hand-pulled during the marking of this lot. Harvesting trees in patches puts enough sunlight on the ground to create conditions that will help native tree species out-compete invasive shrubs over time.

The soil is mostly well drained.

Site Selection

The primary goal of the watershed forest management program is to create and maintain a forest that provides high quality drinking water to current users and future generations. A healthy and resilient forest is comprised of diverse native tree and shrub species and multiple age classes of trees.

This area was chosen because red pine is susceptible to mortality caused by insects and disease. Mortality is already present in several patches.

Silvicultural Objectives

Remove mature red pine from these patches, while retaining healthy overstory trees of other species. There are ten patches that are 3.5, 2.0, 0.7, 0.7, 0.6, 0.6, 0.5, 0.5, 0.4, and 0.1 acres in size. The understory regeneration will be protected as much as possible.

Cultural Resources

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources. Several roadside walls may be affected by the removal of these trees.

Rare or Endangered Species

MA DFW's Natural Heritage Endangered Species Program (NHESP) has placed operational restrictions on the 3.5 acre patch located at the intersection of Rt 62 and Granger Rd. Harvesting equipment can only be operated in that stand from 11/15 to 3/15 of any year.

Figures

- Figure 1 Final Forest Cutting Plan
- Figure 2 (A-B) Pre-Harvest photos taken on 7/3/19
- Figure 3 (A-B) Post-Harvest photos taken on 4/2/20
- Figure 4 (A-B) After 3 Growing Seasons photos taken on 8/16/22

Figure 1 Final Forest Cutting Plan

FEB 26 2019

<h2>Forest Cutting Plan</h2> <p>and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16)</p>		For DCR Use Only: File Number <u>021-9787-19</u> Case No. <u> </u> Date Rec'd <u>2/10/19</u> Nat. Hert. <u>YES</u> Earliest Start <u>3/13/19</u> Pub. Dr. Wat. <u>YES</u> River Basin <u>CHICOPEE</u> ACEC <u>NO</u> Gen. Obj. <u>LT</u> Nat. Hert Impact? <u>YES</u>																																																																																																								
Location <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Town <u>Barre</u></td> <td>Road <u>Old Worcester Rd & Granger Rd</u></td> </tr> <tr> <td>Acres <u>9.7</u></td> <td>Proposed Start Date <u>3/19</u></td> </tr> <tr> <td>Vol. MBF <u>127.8</u></td> <td>Vol. Cds. <u>9</u> Vol. Tons <u>110</u></td> </tr> </table> Plan Preparer <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Name <u>Kenneth W. Canfield</u></td> </tr> <tr> <td>Address <u>578 Old Turnpike Rd</u></td> </tr> <tr> <td>Town, State, Zip <u>Oakham, MA 01068</u></td> </tr> <tr> <td>Phone <u>(508) 882-3636</u></td> </tr> <tr> <td>Type of Preparer <u>LF</u></td> </tr> <tr> <td>*Mass. Forester License # <u>431</u></td> </tr> </table> <p>*Required for land under Ch61, Ch61A or Forest Stewardship</p> Stream Crossings <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Indicate location on map</td> <td>SC-1</td> <td>SC-2</td> <td>SC-3</td> <td>SC-4</td> </tr> <tr> <td>Type of Crossing</td> <td>CU</td> <td>CU</td> <td></td> <td></td> </tr> <tr> <td>Existing Structure</td> <td>YES</td> <td>YES</td> <td></td> <td></td> </tr> <tr> <td>Type of Bottom</td> <td>ST</td> <td>MU</td> <td></td> <td></td> </tr> <tr> <td>Bank Height (ft)</td> <td>1-2'</td> <td><1'</td> <td></td> <td></td> </tr> <tr> <td>Stabilization</td> <td>SE</td> <td>SE</td> <td></td> <td></td> </tr> </table> Wetland Crossings <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Indicate location on map</td> <td>WC-1</td> <td>WC-2</td> <td>WC-3</td> <td>WC-4</td> </tr> <tr> <td>Length of Crossing</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mitigation</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stabilization</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> Filter Strips <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Indicate location on map</td> <td>FS-1</td> <td>FS-2</td> <td>FS-3</td> <td>FS-4</td> </tr> <tr> <td>Width (50', 100', or VA)</td> <td>VA</td> <td>VA</td> <td>VA</td> <td>VA</td> </tr> </table> Landowner <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Name <u>DCR Division of Water Supply Protection</u></td> </tr> <tr> <td>Mailing Address <u>485 Ware Rd</u></td> </tr> <tr> <td>Town, State, Zip <u>Belchertown, MA 01007</u></td> </tr> <tr> <td>Phone <u>(413) 323-6921</u></td> </tr> <tr> <td>Ch61 <input type="checkbox"/> 61A <input type="checkbox"/> 61B <input type="checkbox"/> Stew <input type="checkbox"/> *Case #</td> </tr> <tr> <td>FSC <input type="checkbox"/> CR <input type="checkbox"/> CR Holder</td> </tr> </table> Licensed Timber Harvester** <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Name <u>KING TIMBER HARVESTING</u></td> </tr> <tr> <td>Address <u>15 RAGGED HILL ROAD</u></td> </tr> <tr> <td>Town, State, Zip <u>HUBBARDSTON MA 04552</u></td> </tr> <tr> <td>Phone <u>(978) 928-4422</u></td> </tr> <tr> <td>Mass. 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Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine		Red Maple	2 Cds
Red Pine	127.8 Mbf	Sugar Maple	
Pitch Pine		Red Oak	
Hemlock		Black Oak	
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	127.8 Mbf
Beech		Cordwood (Cds)	9
White Birch		SW Pulp (Tons)	110
B & Y Birch	2 Cds	HW Pulp (Tons)	
Black Cherry	5 Cds	Chips (Tons)	

*Note: Volumes indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. Mbf = thousand board feet.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	RP	RP		
Acres	3.5	6.2		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	CC	SE		
Source of Regeneration	AD	SE		

Stand Treatment

Landowner Signature

The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested and which will remain; this decision will also determine the future condition of the forest for decades to come. After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.

 LT - Long-term Forest Management

Planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products.

 ST - Short-term Harvest

Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options.

I (we) hereby certify that I (we) have the legal authority to carry out the operation described above.

I (we) certify that I (we) have notified the Conservation Commission in the town in which the operation is to take place and the abutters of record within two hundred feet of the area to be harvested.

I (we) understand that the volumes in this plan have not been independently verified by the service forester upon approval and will report final values and volumes to the Director or his/her agent if the final figures differ from those reported.

Signature of landowner(s)

2-20-19

Date

Determination and Status 021-9787-19

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

12/23/19

Signature of Service Forester/Director's Agent

Date

Approved	Disapproved	Expires	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2/26/21	
		3/19/19	Date
Signature of Service Forester/Director's Agent			

Extension	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Expires	Ser. For. Ints.
Amendment	App 1 <input checked="" type="checkbox"/>	Dis 1 <input type="checkbox"/>	App 2 <input type="checkbox"/>	Dis 2 <input type="checkbox"/>
CC				
ADDS LANDING				

Forest Types		Designation of Trees				Type of Cut	Intermediate Harvests:		Source of Regeneration
WP	White Pine	HK	Hemlock	OM	Mixed Oak	CT Cut Tree	SH Shelterwood	CT Commercial Thin	AD Advanced
WK	WP/Hem	HH	Hem/Hdwd.	RM	Red Maple	LT Leave Tree	ST Seed Tree	NT Non Com Thin	SE Natural Seed
WH	WP/Hdwd	BC	Blck Cherry	BE	Beech	SB Stand Boundary	CC Clear Cut	PL Plant	
WO	WP/Oak	BB	Bee/Bir/Map	SF	Spruce/Fir	OT Other	SE Selection	CO Coppice	
RP	Red Pine	OH	Oak/Hdwd	SM	Sugar Maple	Landowner Objective	SA Salvage	HG Highgrade*	DS Direct Seed
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT Long-term Mgt.	SN Sanitation	DL Diameter Limit*	OT Other
						ST Short-term Har.	OT Other*		

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page

pg 4 of 5

Forest Cutting Plan

Narrative Page (Effective Date: 3/15/16)

Use this page to provide further explanation or if

Other (OT) was used in any category on pages 3 or 4.

Landowner

DCR - DWSP

Town

Barre

File Number

021-9787-19

BMPs

Designation of Trees

Regeneration & Future Condition

Use this Section to provide further explanation or if Other (OT) was used in any category in the Best Management Practices Section on Page 3.

This harvest is comprised of several patch cuts to remove sawlog size Red Pine plantations. The largest patch (ST -1) is 3.5 acres and is located at the intersection of Rt 62 and Granger Rd. There are also patches (ST - 2) of 0.7, 0.6, 0.4, and 0.6 acres located further south adjacent to Granger Rd. There are patches (St - 2) of 0.5, 0.1, 0.7, 0.5, and 2.0 acres located adjacent to Old Worcester Rd. A forwarder will be used to forward wood across the two existing culverted road crossings to access roadside landings.

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4. Additional narrative description may be added on a separate page.

Describe Trees to be Cut				Describe Trees to be Left				% BA/AC	
Stand No.	Species	Size	Quality	Species	Size	Quality	Cut	Left	

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

Stand No. Source of
Regeneration
(ex. AD, SE)

How will Regeneration be obtained/protected?

If using AD - Describe the species present and how the regeneration will be protected
If using SE - Describe the source of the seed and the number of seed trees/acre

Stand No.

Desired Future Condition

Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

Rt 62, Granger Rd, & Old Worcester Rd,
Barre, MA
Lot # 4398
9.7 Acres
MA DCR

Division of Water Supply Protection
Prepared by Kenneth W Canfield 2/19/19
Data Sources: MassGIS, DCR & EOEEA



Stand Map 1

Stand Map 2

Stand Map 3

Legend

- Harvest Areas
- Property Boundary
- USA Topo Maps

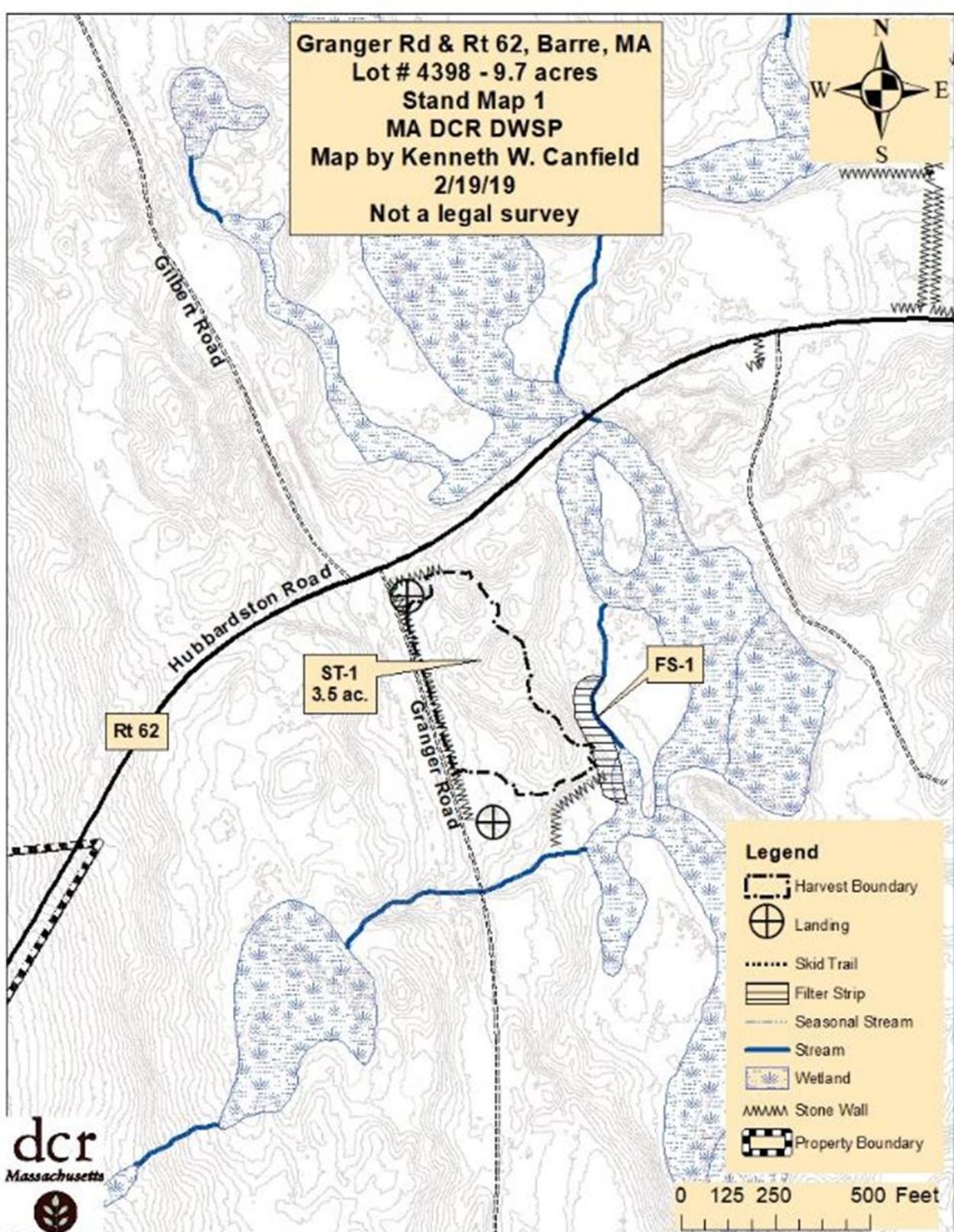
1 Inch - 2,000 Feet

0 800 1,600 2,400 3,200 4,000 Feet



Department of Conservation & Recreation

Granger Rd & Rt 62, Barre, MA
Lot # 4398 - 9.7 acres
Stand Map 1
MA DCR DWSP
Map by Kenneth W. Canfield
2/19/19
Not a legal survey



Granger Rd Barre, MA
Lot # 4398 - 9.7 acres
Stand Map 2
MA DCR DWSP
Map by Kenneth W. Canfield
2/19/19
Not a legal survey



Granger Rd

ST-2
0.4 ac

ST-2
0.6 ac

FS-2

SC-1

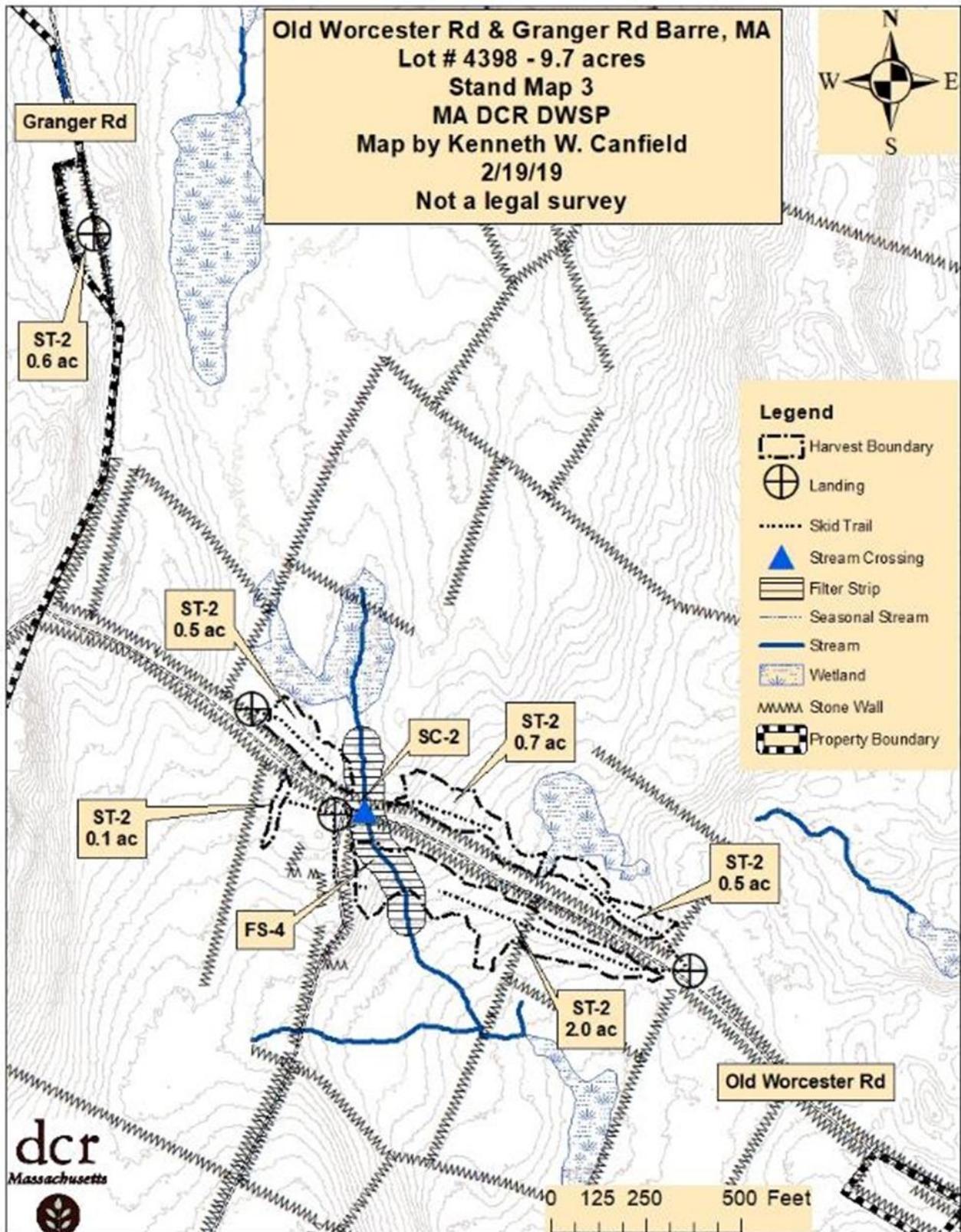
FS-3

ST-2
0.7 ac.

Legend

- Harvest Boundary
- Landing
- Skid Trail
- Stream Crossing
- Filter Strip
- Seasonal Stream
- Stream
- Wetland
- Stone Wall
- Property Boundary

0 125 250 500 Feet



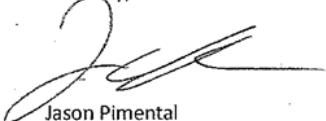
441 Wheelright Rd
Barre, MA 01005
3/18/19

Kenneth Canfield
Watershed Forester
MA DCR DWSP
578 Old Turnpike Rd
Oakham, MA 01068

Dear Ken:

I recommend that you remove all the roadside red pine on your upcoming timber harvest (file # 021-9787-19) on Granger and Old Worcester Rd. in Barre. Leaving trees in the visual buffer that will succumb to insects and disease only poses a hazard to public safety.

Sincerely,



Jason Pimental

Superintendent

Town of Barre Highway Division

dcr



COMMONWEALTH OF MASSACHUSETTS
Department of Conservation and Recreation
Division of State Parks and Recreation

FILE # 021-9787-19

FOREST CUTTING PLAN CERTIFICATE

W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR-DWSP 485 WARE RD, BELCHERTOWN in accordance with the
(Name of Owner) (Address) MA 01007

provision of M.G.L. Chapter 132, Section 40-46, filed in CLINTON with the Dept. of Conservation
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the
GRANGER RD. lot.

Approval Date 3/19/19
Director's Agent CHRIS CAPONE
DCR Phone No. (857) 406-0175

ISSUED BY:

Priscilla E. Geigis, Director
Division of State Parks and Recreation

Figure 2 A-B

Pre-Harvest Photos taken from Granger Rd on 7/3/19

2A Photo from Granger Rd on 7/3/19 to the NE



2B Photo from Granger Rd on 7/3/19 to the SE



Figure 3 (A-B)

Post-Harvest photos taken From Grenager Rd on 4/2/20

3A Photo from Granger Rd on 4/2/20 to the NE



3B Photo from Granger Rd on 4/2/20 to the SE



Figure 4 (A-B)

After 3 Growing Seasons photos taken From Granger Rd on 8/16/22

4A Photo from Granger Rd on 8/16/22 to the NE



4B Photo from Granger Rd on 8/16/22 to the SE

