

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

Project Title: Granger Rd

DWSP Harvest Permit Number: 4401

DWSP Proposal ID: WR19-19-2

DCR Forest Cutting Plan File Number: 021-27857-20

Site Information

Watershed: Ware River Watershed

Town(s): Barre

Acres: 10.5

Nearest Road: Granger Rd

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine/Hardwood, oak/Hardwood

Area of Critical Environmental Concern (ACEC)?: No

Soils: 910C Woodbridge-Paxton, 925E Charlton-Chatfield-Hollis, 926C Charlton-Chatfield, and 902E Charlton-Paxton

Wetland Resources: Several unnamed intermittent streams and associated wetlands are adjacent to the harvest area.

Vernal Pools: A vernal pool is present outside of the harvest area within 200 feet.

Harvest Information

Harvest Start Date: 10/17/22

Harvest End Date: 11/14/22

Number of Wetland Crossings: None

Number of Stream Crossings: One

Best Management Practices Applied

Stream Crossings: There is one stream crossing.

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, northwest of Granger Rd where it intersects Adams Rd. It consists of a white pine/hardwood stand and an oak/hardwood stand.

Tree species present in the overstory of the pine/hardwood stand are white pine, red maple, black cherry, yellow birch, hemlock, red and white oak, and red pine. The understory consists of black birch, red maple, hemlock, American beech, yellow birch, striped maple, white and red oak, and white ash.

Tree species present in the overstory of the oak/hardwood stand are red oak, black cherry, white oak, red maple, and white pine. The understory consists of hemlock, red maple, white pine, red oak, and black birch.

Glossy buckthorn and Japanese barberry are present but not well established in the harvest area near Granger Rd. Some stems were hand pulled during tree marking.

The soils are well drained to moderately 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 there is an abundance of low quality, old field white pine.

Silvicultural Objectives

The goal of this harvest is to reduce the amount of mature, low quality, old field white pine in the area. These types of stands are prevalent in the Ware River Watershed due to historical agricultural land use in the area. These stands generally consist of a single dominant species (white pine) with dominant trees that are all the same age because they all started when the pastureland was abandoned around the early 1900s. The white pine is usually very low quality due to its open growing conditions and the effects of the white pine weevil, back when the dominant trees were seedlings and saplings. The regeneration that is already present under these stands is generally much more diverse in terms of species composition. These low quality white pine stands will be harvested in patches so that regeneration has plenty of sunlight to grow.

Cultural Resources

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

Rare or Endangered Species

Natural Heritage Endangered Species Program (NHESP) does not show any rare habitat within the harvest area.

Figures

Figure 1 Final Forest Cutting Plan

Figure 2 A-C Pre-Harvest photos 1-3 from photo point 1 on Granger Rd taken 8/25/20

Figure 3 A-C Post-Harvest photos 1-3 from photo point 1 on Granger Rd taken on 11/14/22

Figure 4 A-C After one growing season photos 1-3 from photo point 1 on Granger Rd taken on 7/13/22

FINAL

Forest Cutting Plan

and Notice of Intent under M.G.L.
Chapter 132 – The Forest Cutting
Practices Act, 304 CMR 11.00
(Effective Date: 3/15/16)

For DCR Use Only:

File Number	021-27857-20	Case No.	
Date Rec'd	6-1-20	Nat. Hert.	N
Earliest Start	6-10-20	Pub. Dr. Wat.	Y
River Basin	CHICOPEE	ACEC	N
Gen. Obj.	LT		

Site Information

Location

Town Barre
Road Granger Rd
Acres 10.5 Proposed Start Date 6/20
Vol. MBF 34.3 Vol. Cds. 95 Vol. Tons 801

Plan Preparer

Name Kenneth W. Canfield
Address 578 Old Turnpike Rd

Town, State, Zip Oakham, MA 01068
Phone (857) 274-7090
Type of Preparer LF
*Mass. Forester License # 431
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR Division of Water Supply Protection
Mailing Address 485 Ware Rd

Town, State, Zip Belchertown, MA 01007
Phone (413) 323 - 6921
Ch61 ☐ 61A ☐ 61B ☐ Stew ☐ *Case #
FSC ☐ CR ☐ CR Holder

Licensed Timber Harvester**

Name _____
Address _____
Town, State, Zip _____
Phone _____
Mass. Lic. Harvester # _____
**This information may be supplied after the plan is approved, but before work begins.

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR			
Existing Structure	NO			
Type of Bottom	ST			
Bank Height (ft)	<1'			
Stabilization	CO			

Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing				
Mitigation				
Stabilization				

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	VA	VA	VA	VA

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Resid. Basal Area (>50%)				

Service Forester Comments

*PLEASE NOTIFY DCR SERVICE
FORESTER AT START OF
HARVEST OPERATION

Best Management Practices

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom	Note
LF Mass Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge	Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin.
TH Lic. Tim. Har.	BR Bridge	MU Mulch	DR Dry	ST Stony	Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits.
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	Consult MA Forestry BMP Manual for further information.
LO Landowner	PO Poled	ST Stone		GR Gravel	
OT Other	OT Other	HB Hay Bales		OT Other	

If Other (OT) is used in any category an explanation must be given on an attached narrative page

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FINAL

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	25.5 Mbf	Red Maple	1 MBF56 Cds
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	6.8 Mbf
Hemlock	0.2 Mbf	Black Oak	0.8 Mbf
Spruce		White Oak	
Other Sftwd.		Other Hdwd.	11 Cds
White Ash		Total Mbf	34.3
Beech		Cordwood (Cds)	95
White Birch		SW Pulp (Tons)	761
B & Y Birch	14 Cds	HW Pulp (Tons)	40
Black Cherry	12 Cds	Chips (Tons)	801

*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	WH	WH	OH	
Acres	4.3	5.6	0.6	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	CC	SE	SE	
Source of Regeneration	SE	SE	SE	

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)

Date

Determination and Status 021-27857-20 Final Report and Comments

Approved ☒ Disapproved ☐ Expires 6/1/22
 Cutting Plan
 Signature of Service Forester/Director's Agent
 Date 6/8/20

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

Signature of Service Forester/Director's Agent
 Date 12/8/2022

Extension 1 ☐ 2 ☐ Expires
 Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐

Forest Types	Designation of Trees	Type of Cut	Source of Regeneration
WP White Pine	CT Cut Tree	SH Shelterwood	AD Advanced
WK WP Hem	LT Leave Tree	ST Seed Tree	CT Commercial Thin
WH WP Hdwd	SB Stand Boundary	CC Clear Cut	NT Non Com Thin
WD WP Oak	OT Other	SE Selection	PL Plant
RP Red Pine	Landowner Objective	SA Salvage	CO Coppice
SR Red Spruce	LT Long-term Mgt	HG Highgrade*	DS Direct Seed
	ST Short-term Har.	DL Diameter Limit*	OT Other
		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 021-27857-20

BMPs

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.

Stand 1 is a 4.3 acre clearcut of an old field white pine/hardwood stand. Stand 2 is four group selection patch cuts in an old field white pine/hardwood stand. The patches are 0.8, 1.4, 1.5, and 1.9 acres in size. Stand 3 is a 0.6 acre group selection patch cut in an oak/hardwood stand.

Designation of Trees

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.

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

Regeneration & Future Condition

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HIG, 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

Stand Map Ware River Lot 4401 Granger Rd & Adams Rd Barre, MA

Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

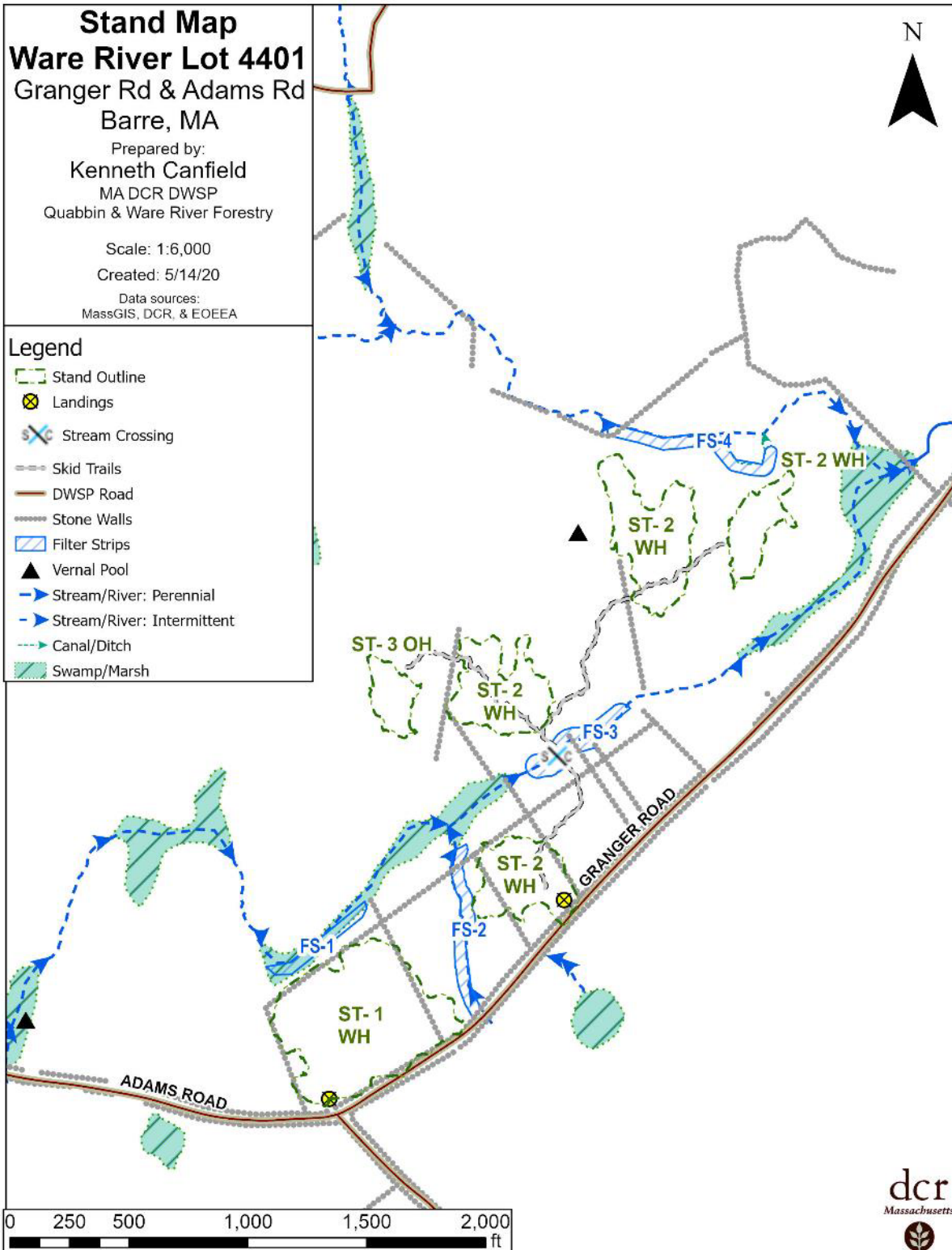
Scale: 1:6,000

Created: 5/14/20

Data sources:
MassGIS, DCR, & EOEEA

Legend

- Stand Outline
- Landings
- Stream Crossing
- Skid Trails
- DWSP Road
- Stone Walls
- Filter Strips
- Vernal Pool
- Stream/River: Perennial
- Stream/River: Intermittent
- Canal/Ditch
- Swamp/Marsh



Locus Map
Ware River Lot # 4401
MA DCR DWSP

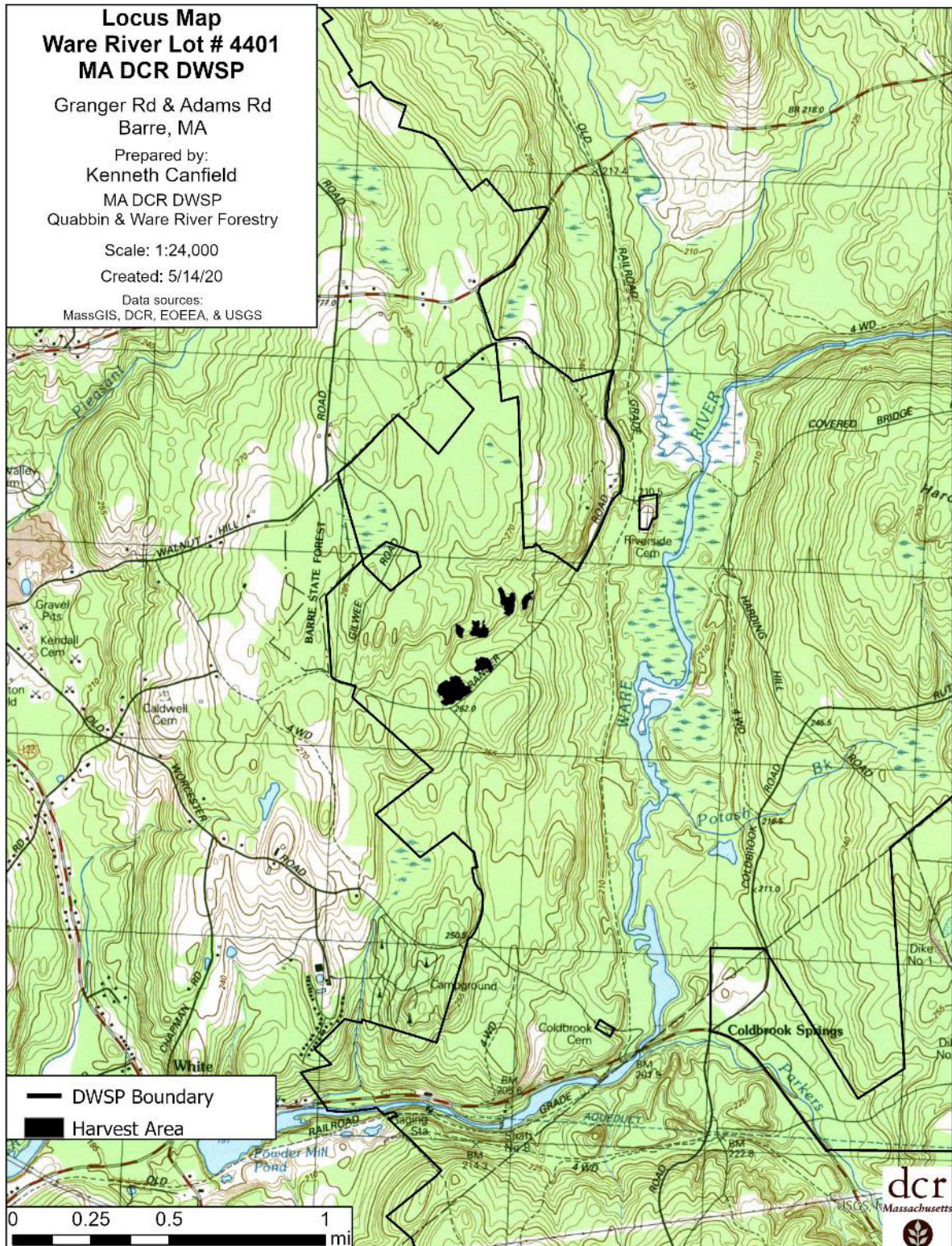
Granger Rd & Adams Rd
Barre, MA

Prepared by:
Kenneth Canfield
MA DCR DWSP
Quabbin & Ware River Forestry

Scale: 1:24,000

Created: 5/14/20

Data sources:
MassGIS, DCR, EOEEA, & USGS



dc



COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation

Division of State Parks and Recreation

FILE # 021-27857-20

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 ROAD
(Name of Owner) (Address) BELCHERTOWN, MA 01007 in accordance with the

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 6/8/20

Director's Agent CHRIS CAPONE

DCR Phone No. (857) 406-0175

ISSUED BY:

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

Figure 2A Pre-Harvest photo 1 from photo point 1 looking NNW on Granger Rd taken on 8/25/20



Figure 2B Pre-Harvest photo 2 from photo point 1 looking N on Granger Rd taken on 8/25/20



Figure 2C Pre-Harvest photo 3 from photo point 1 looking NNE on Granger Rd taken on 8/25/20



Figure 3A Post-Harvest photo 1 from photo point 1 looking NNE on Granger Rd taken on 11/14/22



Figure 3B Post-Harvest photo 2 from photo point 1 looking N on Granger Rd taken on 11/14/22



Figure 3C Post-Harvest photo 3 from photo point 1 looking NNW on Granger Rd taken on 11/14/22



Figure 4A After one growing season photos 1 from photo point 1 looking NNE on Granger Rd taken on 7/13/23



Figure 4B After one growing season photo 2 from photo point 1 looking north on Granger Rd taken on 7/13/23



Figure 4C After one growing season photo 3 from photo point 1 looking North-Northwest on Granger Rd taken on 7/13/23

