

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
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	ACEC¹?: 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 present or within 200 feet of harvest : A vernal pool is present outside of the harvest area within 200 feet.	

Harvest Information

Harvest Start Date: After 1/1/22	Harvest End Date: Before 6/1/2023
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 # 431
Phone #: 857-274-7090
Email: kenneth.canfield@mass.gov

¹ACEC: Area of Critical Environmental Concern

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.

Wildlife/Rare or Endangered Species:

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

FIGURES

Figure 1 Forest Cutting Plan

Figure 2 Pre-Harvest photos 1-3 from photo point 1 on Granger Rd

Forest Cutting Plan		For DCR Use Only:	
and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16)		File Number <u>021-27857-20</u>	Case No. _____
		Date Rec'd <u>6-1-20</u>	Nat. Hert. <u>N</u>
		Earliest Start <u>6-10-20</u>	Pub. Dr. Wat. <u>Y</u>
		River Basin <u>CHICOPEE</u>	ACEC <u>N</u>
		Gen. Obj. <u>LT</u>	

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

Type of Preparer

LF Mass. Lic. For. CU Culvert SE Seed FR Frozen LE Ledge
TH Lic. Tim Har BR Bridge MU Mulch DR Dry ST Stony
TB Timber Buyer FO Ford CO Corduroy OT Other MU Mud
LG Landowner PO Poled ST Stone GR Gravel
OT Other OT Other HB Hay Bales OT Other

Note:
Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin. Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

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

pg 3 of 5

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	25.5 Mbf	Red Maple	1 Mbf/58 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

5-18-2020

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

Approved	Disapproved	Expires
<input checked="" type="checkbox"/>	<input type="checkbox"/>	6/1/22
Signature of Service Forester/Director's Agent		Date
6/8/20		
Extension	1 <input type="checkbox"/> 2 <input type="checkbox"/>	Expires
Amendment	App 1 <input type="checkbox"/> Dis 1 <input type="checkbox"/> App 2 <input type="checkbox"/> Dis 2 <input type="checkbox"/>	Ser. For. Ints.

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

Forest Types				Designation of Trees		Type of Cut		Source of Regeneration	
WP White Pine	HK Hemlock	OM Mixed Oak	CT Cut Tree	SH Shelterwood	Intermediate Harvester:	AD Advanced			
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree	ST Seed Tree	CT Commercial Thin	SE Natural Seed			
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary	CC Clear Cut	NT Non Com Thin	PL Plant			
WO WP/Oak	BB Bee Bir/Map	SF Spruce/Fir	OT Other	SE Selection	Non-Standard Systems:	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*				

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

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.

BMPs

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.

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

Regeneration & Future Condition

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











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

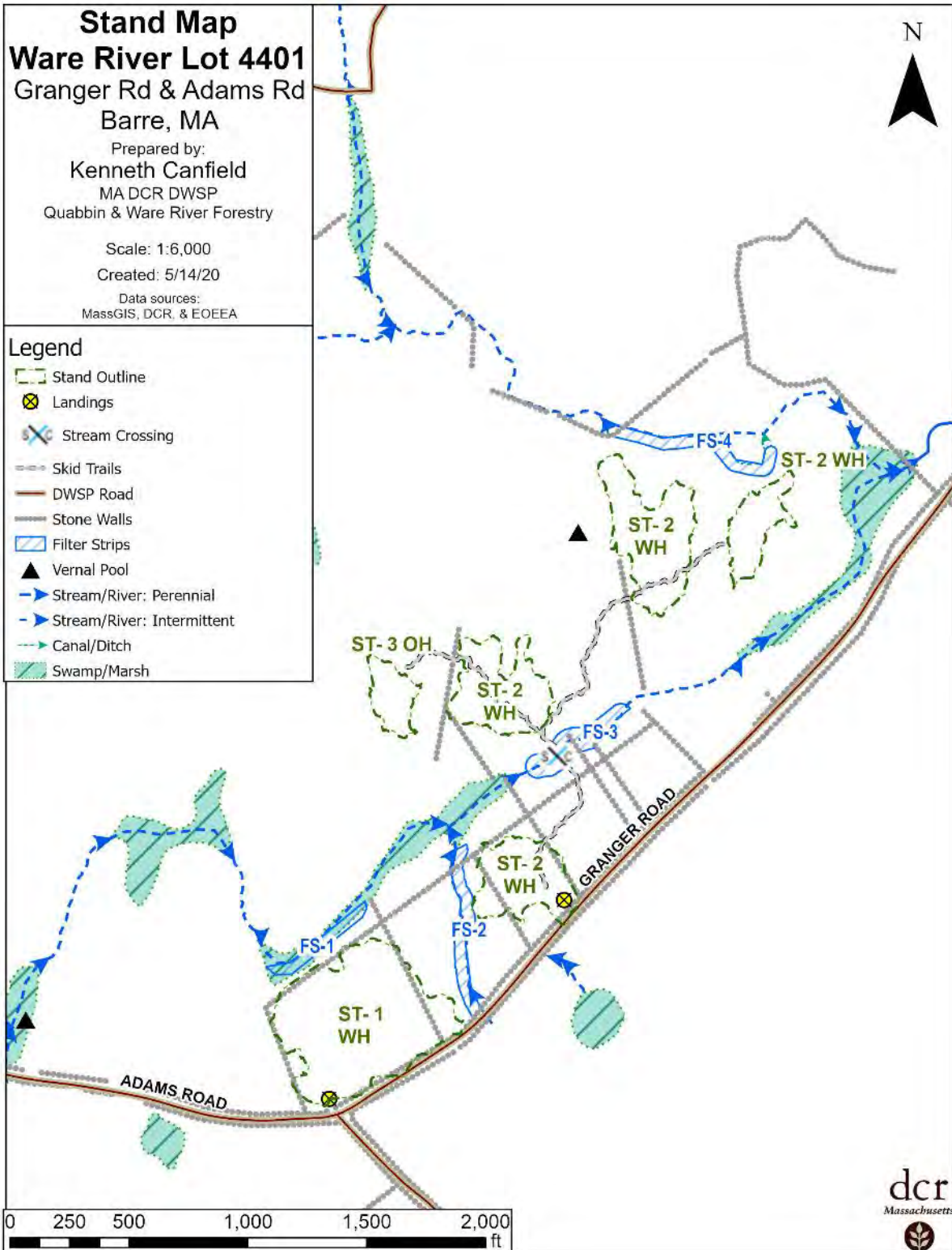
Scale: 1:6,000

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**

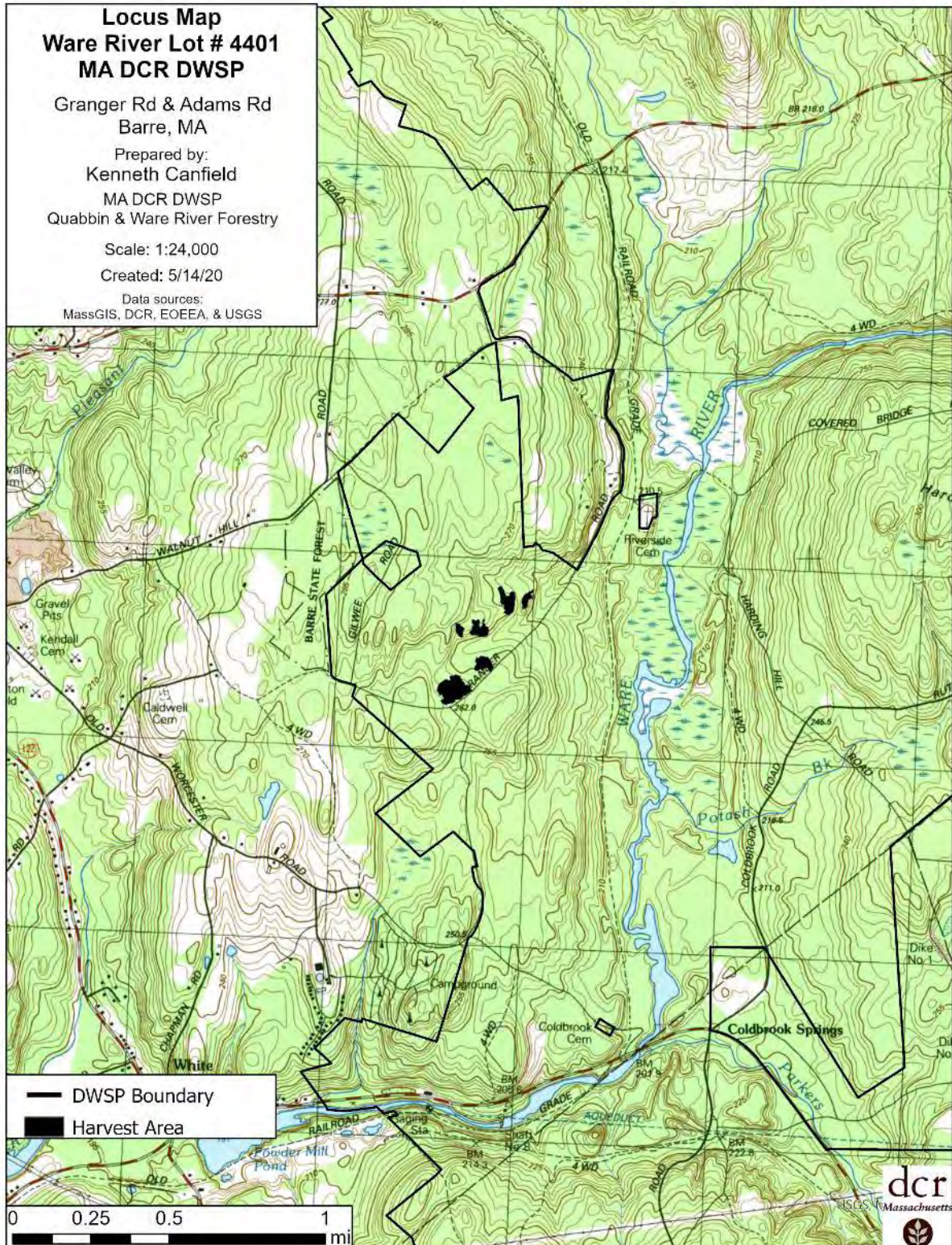
Granger Rd & Adams Rd
Barre, MA

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

W

FOREST CUTTING PLAN CERTIFICATE

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 2 Pre-Harvest photos 1-3 from photo point 1 on Granger Rd





