

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

Project Title: Lighthouse Hill North

DWSP Harvest Permit Number: 3180

DWSP Proposal ID: PR-25-13

DCR Forest Cutting Plan File Number: 204-43319-26

Site Information

Watershed: Quabbin

Town(s): New Salem

Acres: 12

Nearest Road: Cooleyville

Natural Heritage Atlas overlap?: Yes

Public Drinking Water Supply Watershed?: Yes

Forest Types: White Pine, White Pine/Oak and Mixed Oak Dry Site

ACEC?: No

Soils: Stony till with varying levels of sandy loam

Wetland Resources: The project area contains no wetland resources but is adjacent to some on the east side.

Vernal Pools: 0

Harvest Information

Harvest Start Date: TBD

Harvest End Date: Before 12/13/2027

Number of Wetland Crossings: 0

Number of Stream Crossings: 0

Best Management Practices Applied

Stream Crossings: 0

Filter Strips: 0

Wetland Crossings: 0

Harvesting in Wetlands: 0

DWSP Forester supervising this harvest

Name: Derek Beard

Forester License #: 14

Phone #: 617 780 0631

Email: derek.beard@mass.gov

NARRATIVE

General Description/Forest Composition/History:

Located on the west side of Prescott Road (Gate 17 Rd.) the project encompasses the north ridge/slope of Lighthouse Hill. The harvest's log landing is approximately one quarter mile (0.25) north of intersection 17-8. The harvest covers 12 acres of a 77-acre management area bounded to the east by stone wall, wetland and intermittent brook, south by old farm lane, west by steep slope and north by stone wall.

The area is dominated by tall, large diameter white pine of average to below average quality. Growing amongst the pine are oaks (red, black, white and scarlet) black birch, red maple and hemlock. Portions of the area were thinned in the 1970s and 80s.

Sporadic fire is part of the area's ecological history evidenced by scarring/cavities at the base of oaks and scattered presence of fire adapted pitch pine. Stone walls and barbed wire bear out a past landscape dominated by agriculture.

Site Selection:

One goal of public water supply management is to maintain forests that protect high quality drinking water for current and future users. To achieve this, DWSP has determined the forest should contain a diversity of species in various stages of development (seedlings through large legacy trees). This requires active forest management designed to foster health, regeneration and greater complexity. Forest in this condition is well positioned to bolster inherent resiliency and ameliorate impacts from a range of disturbances (disease, insect infestation, ice storms and hurricanes) brought on by a warming planet.

Silvicultural Objectives:

The main goal of the harvest is introducing some structural diversity to a largely homogeneous tall canopy forest. This will be accomplished by harvesting twelve one-acre openings placed across the area, that once exposed to direct sunlight will trigger vigorous seedling/sapling regeneration. All openings have legacy trees along with snags (live and dead trees that exhibit signs of wildlife use, i.e. cavities, nests, dens) that support important ecosystem function.

Cultural Resources:

The project does not encompass any extraordinary cultural resources.

Rare or Endangered Species:

According to the latest edition of the MA Natural Heritage & Endanger Species Atlas, the project overlaps with estimated or critical habitat area. The NHESP Program review determined that the proposed plan will not negatively impact Priority Habitat or result in Take (as defined in 321 CMR 10.02) of plant or animal species protected under the Massachusetts Endangered Species Act.

FIGURES

Figure 1. Forest Cutting Plan

Figure 1a: Forest Cutting Plan pg. 1.

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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 <u>2021-43319-24</u>	Case No. _____
Date Rec'd <u>08-07-25</u>	Nat. Herti. <u>y-no imp</u>
Earliest Start <u>08-22-25</u>	Pub. Dr. Wat. <u>Quabbin</u>
River Basin <u>Chicopee</u>	ACEC <u>n/a</u>
Gen. Obj. <u>LT</u>	

Location Timber Lot 3180

Town New Salem
Road Prescott Road (Gate 17)
Acres 77 Proposed Start Date _____
Vol. MBF 176 Vol. Cds. 118 Vol. Tons 333

Plan Preparer

Name Derek Beard
Address 485 Ware Rd.

Town, State, Zip Belchertown, MA 01007
Phone (617) 780-0631
Type of Preparer Licensed Forester
*Mass. Forester License # 14
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR - Div. 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				
Existing Structure				
Type of Bottom				
Bank Height (ft)	▼			
Stabilization				

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)				

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

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. Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony	
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud	
LO Landowner	PO Poled	ST Stone		GR Gravel	
OT Other	OT Other	HB Hay Bales		OT Other	
		OT Other			

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

Figure 1b: Forest Cutting Plan pg. 2.

Forest Products	Products to be Harvested*			
	Mbf/Cds		Mbf/Cds	
White Pine	117.000	Red Maple	4.000	
Red Pine		Sugar Maple		
Pitch Pine		Red Oak	15.000	
Hemlock	16.000	Black Oak	8.000	
Spruce		White Oak	3.000	
Other Sftwd.		Other Hdwd.	2.000	
White Ash	3.000	Total Mbf	176.400	
Beech		Cordwood (Cds)	118.000	
White Birch	0.400	SW Pulp (Tons)	333.000	
B & Y Birch	8.000	HW Pulp (Tons)	0.000	
Black Cherry		Chips (Tons)	0.000	

*Note: Volumes and values 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	ST-1	ST-2	ST-3	ST-4
Indicate location on map				
Forest Type	OM	HH	WO	
Acres	7.000	5.000	65.000	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	CC	SE	CC	
Source of Regeneration	AD	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 and values (Ch61 only) 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.

See next pg

Signature of landowner(s)

Date

Determination and Status

Approved

Disapproved

Expires

Cutting Plan ☒ ☐ 08/07/2027

Signature of Service Forester/Director's Agent

Date

09/15/2025

Extension

Expires

Ser. For. Ints.

1 ☐ 2 ☐

Amendment

App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐

Final Report and Comments

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

Heritage: No Impact. See attached.

Signature of Service Forester/Director's Agent

Date

Codes

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

*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page pg 5 of 6

Figure 1c: Forest Cutting Plan pg 3.

Products to be Harvested*			
Species	Mb/Cds		Mb/Cds
White Pine	117	Red Maple	4
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	15
Hemlock	16	Black Oak	8
Spruce		White Oak	3
Other Sfld.		Other Hdwd.	2
White Ash	3	Total Mbf	176.4
Beech		Cordwood (Cds)	118
White Birch	0.4	SW Pulp (Tons)	333
B & Y Birch	8	HW Pulp (Tons)	
Black Cherry		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	OM ☐	HH ☐	WO ☐	☐
Acres	7	5	65	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT ☐	CT ☐	CT ☐	☐
Type of Cut	CC ☐	SE ☐	CC ☐	☐
Source of Regeneration	AD ☐	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.

7/31/2025

Signature of landowner(s) _____ Date _____

Determination and Status	Final Report and Comments
Approved ☐ Disapproved ☐ Expires _____ Cutting Plan ☐ _____ Signature of Service Forester/Director's Agent _____ Date _____ Extension 1 ☐ 2 ☐ Expires / Ser. For. Ints. / Amendment App 1 ☐ Dis 1 ☐ App 2 ☐ Dis 2 ☐ _____	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
WK WP/Hem	HH Hem/Hdwd	RM Red Maple	LT Leave Tree
WH WP/Hdwd	BC Black Cherry	BE Beech	SB Stand Boundary
WO WP/Oak	BB Bee/Bir/Map	SF Spruce/Fir	OT Other
RP Red Pine	OH Oak/Hdwd	SM Sugar Maple	Landowner Objective
SR Red Spruce	OR N Red Oak	PP Pitch Pine	LT Long-term Mgt.
			ST Short-term Har.

Figure 1d forest cutting plan pg. 4.

Forest Cutting Plan		Landowner	DCR -DWSP
Narrative Page (Effective Date: 3/15/16)		Town	New Salem
Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.		File Number	204-43319-26

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.

The harvest intent is diversification of forest structure. Specifically, introducing young forest into a largely homogeneous 80 to 100 year old forest. This will be accomplished through twelve openings spread across a 77-acre management unit. Openings range between slightly below and above one acre. Per regulation, openings over one acre are classified as clearcuts and under one acre as selection cuts (group). To simplify the cutting plan filing process, stands with openings both above and below the one acre criteria are classified as clearcuts. All openings have remaining live trees (marked green or orange) and wildlife snags (marked with a W). Bounds of openings are marked with triple slash of green or orange. Timber to be cut is marked blue. Main skid roads are marked with vertical blue slash.

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

Figure 1d: Forest Cutting Plan pg. 5.

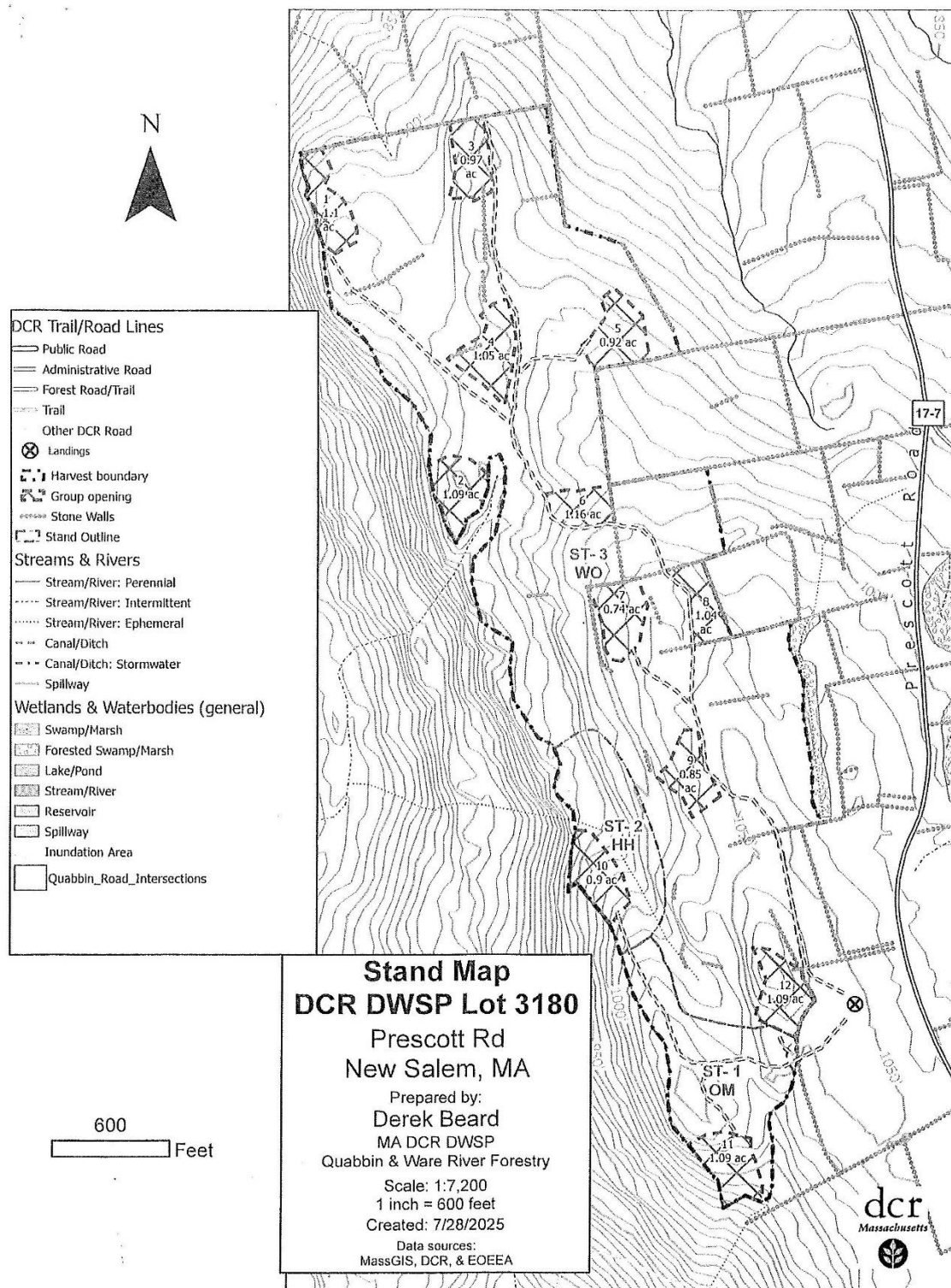


Figure 1e: Forest Cutting Plan page 6.

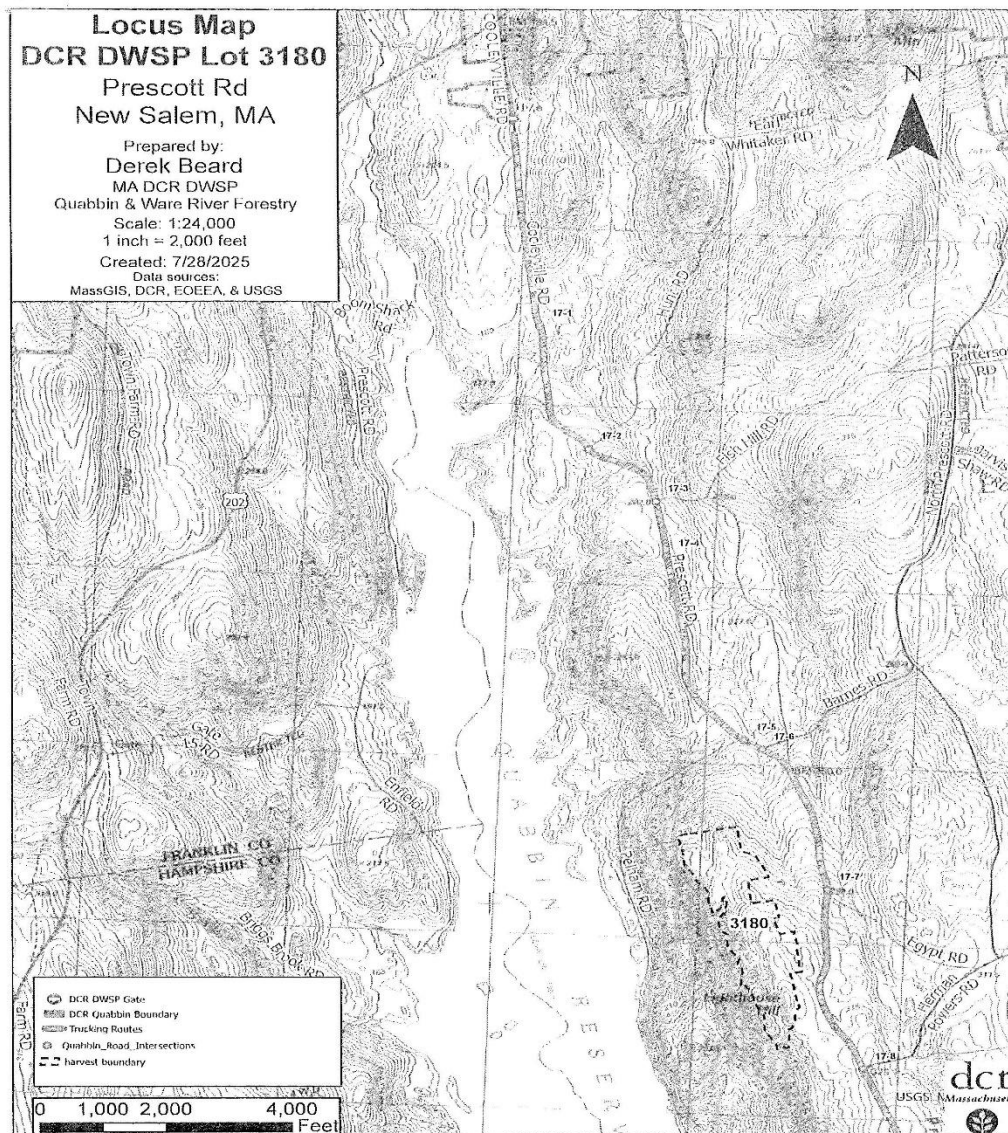


Figure 1f: Forest Cutting Plan page 7

	dcf COMMONWEALTH OF MASSACHUSETTS Department of Conservation and Recreation Division of State Parks and Recreation	FILE # <u>201-43319-26</u>
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 <u>DE-DMSF</u> <u>485 WARE RD</u> in accordance with the (Name of Owner) (Address)		
provision of M.G.L. Chapter 132, Section 40-46, filed in <u>Amherst F.O.</u> with the Dept. of Conservation and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the		
<u>646 17/110</u> for <u>PRISCILLA E. GELIG</u> (owner's name)		
Approval Date <u>9/15/25</u>		
Director's Agent <u>Andrew Rancic</u>		
DCR Phone No. <u>(617) 544-1677</u>		
ISSUED BY: <u>Priscilla E. Gelig</u> Priscilla E. Gelig, Director Division of State Parks and Recreation		