

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 303.26801.20
Date Rec'd 04/14/2020
Earliest Start 04/30/2020
River Basin —
Gen. Obj. LT

Case No. 303-10381
Nat. Hert. False
Pub. Dr. Wat. —
ACEC —

Location

Town Upton
Road Grafton
Acres 91.00 Proposed Start Date 06/04/2020
Vol. MBF 166.350 Vol. Cds. 785 Vol. Tons 0

Plan Preparer

Name Philip B. Benjamin
Address 151 Depot Street
Town, State, Zip South Easton MA 02375
Phone 508-238-0422
Type of Preparer LF
*Mass. Forester License # 15
*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name Conservation Commission Town of Upton
Mailing Address 1 Main Street
Town, State, Zip Upton MA 01568
Phone 508-529-6286
Ch61 ☐ 61A ☐ 61B ☐ Stew ☒ *Case # 303-10381
FSC ☐ CR ☐ CR Holder —

Licensed Timber Harvester**

Name —
Address —
Town, State, Zip MA
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 | 30.00 | 30.00 | 25.00 | |
| Mitigation | FR,DR | FR,DR | FR,DR | |
| Stabilization | CO | CO | CO | |

Filter Strips

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

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

| Type of Preparer | Type of Crossing | Stabilization | Mitigation | Type of Bottom |
|--------------------|------------------|---------------|------------|----------------|
| 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 |
| LO Landowner | PO Poled | ST Stone | | GR Gravel |
| OT Other | OT Other | HB Hay Bales | | OT Other |
| | | 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.

Products to be Harvested*

| Species | Mbf/Cds | | Mbf/Cds |
|--------------|---------|----------------|---------|
| White Pine | 19.600 | Red Maple | 5.425 |
| Red Pine | | Sugar Maple | |
| Pitch Pine | | Red Oak | 41.365 |
| Hemlock | | Black Oak | 99.595 |
| Spruce | | White Oak | |
| Other Sftwd. | | Other Hdwd. | |
| White Ash | | Total Mbf | 166.350 |
| Beech | | Cordwood (Cds) | 785.000 |
| White Birch | 0.150 | SW Pulp (Tons) | |
| B & Y Birch | 0.215 | HW Pulp (Tons) | |
| Black Cherry | | Chips (Tons) | |

*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

| Indicate location on map | ST-1 | ST-2 | ST-3 | ST-4 |
|--------------------------|--------|-------|-------|--------|
| Forest Type | OM | WP | OH | OM |
| Acres | 64.900 | 5.500 | 8.900 | 11.900 |
| Landowner Objective | LT | LT | LT | LT |
| Designation of Trees | CT | CT | CT | CT |
| Type of Cut | SE | SE | SE | ST |
| Source of Regeneration | SE | AD | AD | AD,CO |

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.

LO 819 up loaded

05/15/2020

Signature of landowner(s)

Date

Determination and Status

| | | | |
|--|-------------------------------------|--------------------------------|-----------------|
| | Approved | Disapproved | Expires |
| Cutting Plan | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 04/14/2022 |
| Signature of Service Forester/Director's Agent | | Date | |
| Extension | 1 <input type="checkbox"/> | 2 <input type="checkbox"/> | Expires |
| Amendment | App 1 <input type="checkbox"/> | Dis 1 <input type="checkbox"/> | Ser. For. Ints. |
| | App 2 <input type="checkbox"/> | Dis 2 <input type="checkbox"/> | |

Final Report and Comments

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 Harvests: | | 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 | Blck 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* | | | |

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

Stream Crossings

| Indicate location on map | SC-5 | SC-6 | SC-7 | SC-8 | SC-9 | SC-10 |
|--------------------------|------|------|------|------|------|-------|
| Type of Crossing | | | | | | |
| Existing Structure | | | | | | |
| Type of Bottom | | | | | | |
| Bank Height (ft) | | | | | | |
| Stabilization | | | | | | |

Wetland Crossings

| Indicate location on map | WC-5 | WC-6 | WC-7 | WC-8 | WC-9 | WC-10 |
|--------------------------|------|------|------|------|------|-------|
| Length | | | | | | |
| Mitigation | | | | | | |
| Stabilization | | | | | | |

Filter Strips

| Indicate location on map | FS-5 | FS-6 | FS-7 | SC-8 | SC-9 | SC-10 |
|--------------------------|------|------|------|------|------|-------|
| Width (50', 100' or VA) | | | | | | |

Harvesting in Wetlands

| Indicate location on map | SC-5 | SC-6 | SC-7 | SC-8 | SC-9 | SC-10 |
|--------------------------|------|------|------|------|------|-------|
| Forest Type (see pg 2) | | | | | | |
| Acres to be Harvested | | | | | | |
| Resid. Basal Area (>50%) | | | | | | |

Amendment

App 3 Dis 3

☐ ☐

App 4 Dis 4

☐ ☐

/

App 5 Dis 5

☐ ☐

App 6 Dis 6

☐ ☐

/

| Type of Crossing | Stabilization | Mitigation | Type of Bottom |
|------------------|---------------|------------|----------------|
| CU Culvert | SE Seed | FR Frozen | LE Ledge |
| BR Bridge | MU Mulch | DR Dry | ST Stony |
| FO Ford | CO Corduroy | OT Other | MU Mud |
| PO Poled | ST Stone | | GR Gravel |
| OT Other | HB Hay Bales | | OT Other |
| | 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 narrative page

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 Town of Upton
Town Upton
File Number 303.26801.20

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.

See narrative pg upload for BMP's

BMPs

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 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Designation of Trees

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 |
|-----------|--|--|
|-----------|--|--|

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Regeneration & Future Condition

| 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 |
| ST-1 | The stand will consist of varying densities of mixed oak and other occasional mixed hardwood poles and sawlogs as well as individual and small to medium pockets of white pine saplings, poles |
| ST-2 | This stand will consist of an aesthetically appealing mix of well-spaced, better formed white pine poles and sawlogs with infrequent mixed oak and mixed hardwood saplings, poles, and sawlogs. |
| ST-3 | The stand will consist of varying densities of better formed mixed oak and other mixed hardwood poles and sawlogs with a developing component of mixed oak, mixed hardwood, and white pine |
| ST-4 | This stand will consist of dense sapling growth, both single stems and stump sprouts, of mixed oaks and occasional red maple and other mixed hardwoods. Very infrequent white pine seedlings and |

Forest Cutting Plan

Narrative Page

Landowner

Town of Upton

Town

Conservation Commission

Upton

File Number

303-26801-20

This project has been marked in an effort to begin to satisfy the management prescriptions as outlined in the Forest Stewardship Plan for the Warren Brook Watershed Conservation Area off Grafton Street in North Upton. The marking is designed to improve the growing conditions of the legacy trees and future crop trees within the treatment area. This will be accomplished through the removal of individual and small groups of mixed hardwood and occasional white pine sawlogs for lumber as well as poor quality hardwoods for firewood. This work will improve the spacings between the retained trees, helping to reduce the stress associated with overstocking. Although quite a few of those hardwoods that have died recently due to insect defoliations in combination with droughty summers will be removed, many others will be left behind to serve as cavity trees for the wildlife in the area.

The removals will also enhance the growing conditions of the young hardwood and white pine saplings and small poles. Although some of these young trees will be damaged or destroyed during the project, the opportunity for the natural regeneration of the oaks and white pine will be greatly improved with the exposed mineral soil and added sunlight. The older white pines within the treatment area have a moderate amount of first year white pine cones that will be maturing during the summer of 2020. The seeds that drop will be able to take advantage of the disturbed soil for improved germination. The opportunity for better oak regeneration will also be improved with the creation of occasional, slightly larger openings that will enjoy more sunlight for a longer period of time while the oaks germinate and begin to develop their root systems.

In addition to the individual and small group selection harvest and improvement thinning, two areas have been identified and marked for the creation of early successional habitat by using the seed tree harvest silvicultural method. With the exception of leaving 4 trees per acre of trees greater than 20" dbh or 12 trees between 14" and 20" in dbh per acre, all trees greater than 4 inches in diameter will be removed in an effort to increase the habitat diversity within the property. The responding dense growth of young tree stems will be hugely helpful in attracting and retaining those species of wildlife that require that type of habitat for nesting, feeding, and cover.

There are several stretches along the existing wood roads that tend to be seasonally wet during periods of high precipitation. The lack of any defined channel identify these as ephemeral wetlands. The loggers will protect these areas with a combination of log corduroy, timber mats, and/or steel plates that will ensure the water flow is uninterrupted and silt-free as the flows cross the existing wood roads. It should be noted that there are occasional lower areas through the treatment area that tend to be seasonally wet and have not been marked for the project. Trees adjoining these seasonally wet areas have been marked to be felled away from any of these areas.

Locus Map

Warren Brook Watershed Conservation Area
Upton, Massachusetts

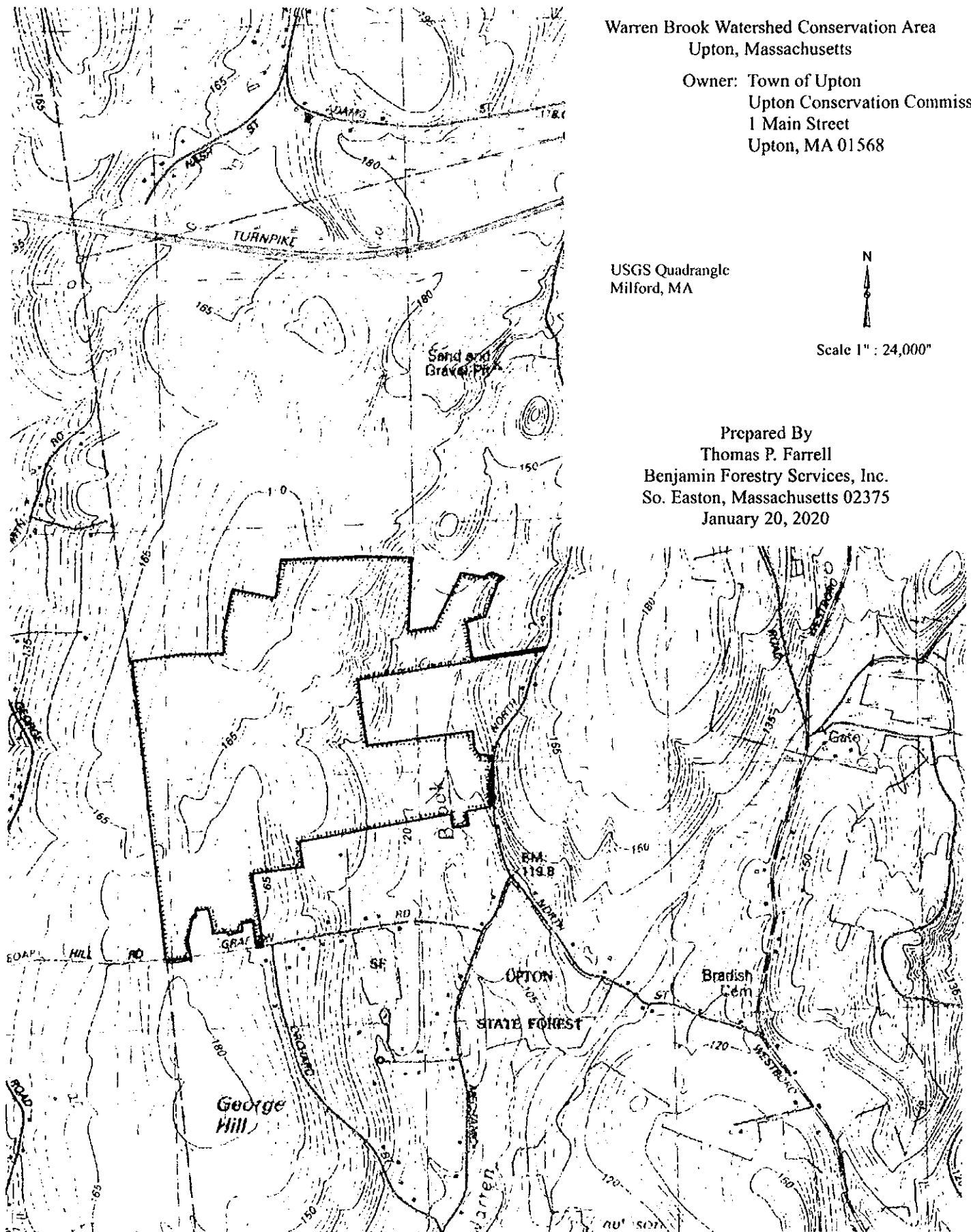
Owner: Town of Upton
Upton Conservation Commission
1 Main Street
Upton, MA 01568

USGS Quadrangle
Milford, MA



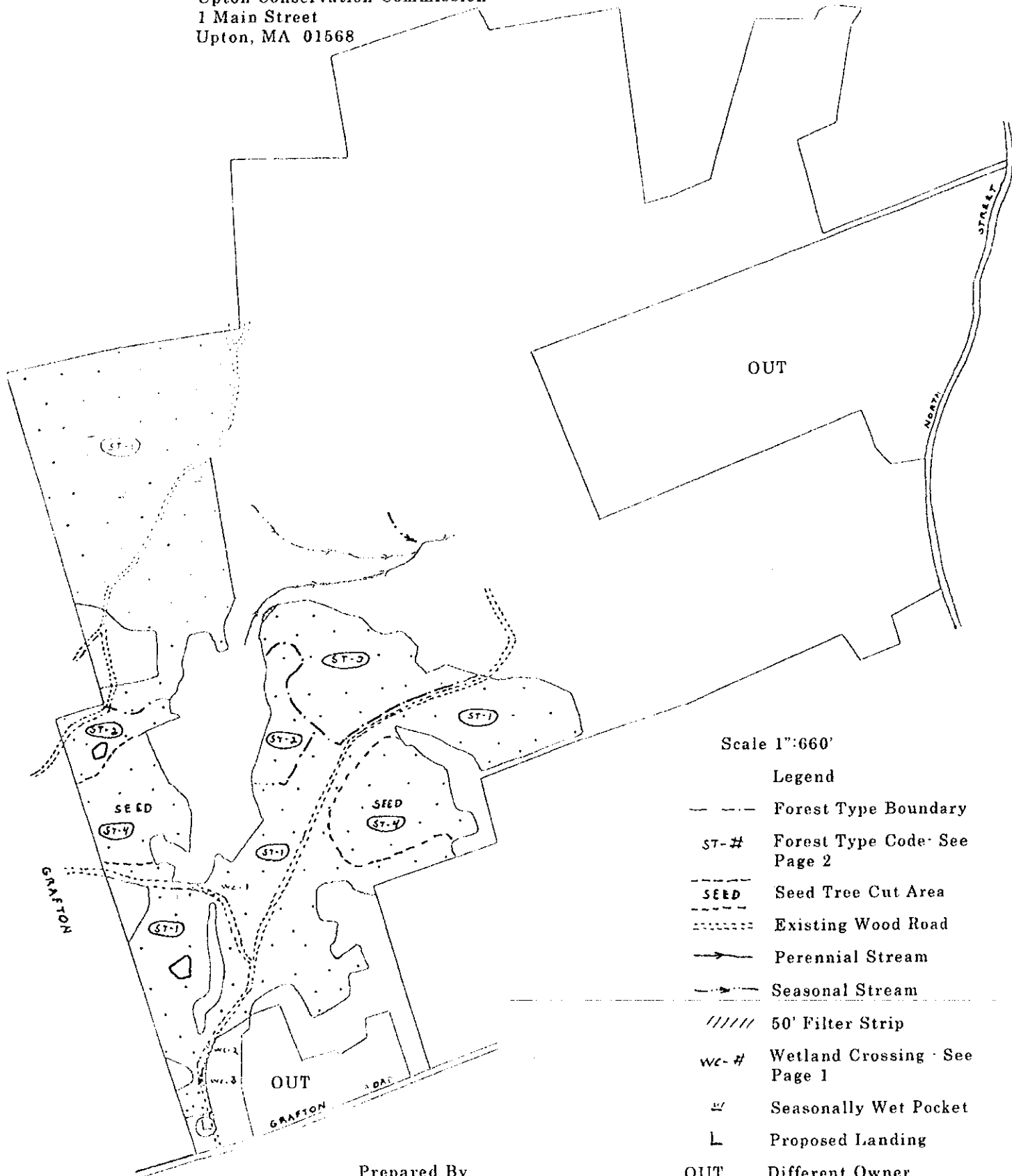
Scale 1" = 24,000"

Prepared By
Thomas P. Farrell
Benjamin Forestry Services, Inc.
So. Easton, Massachusetts 02375
January 20, 2020



Warren Brook Watershed Conservation Area
Upton, Massachusetts

Owner: Town of Upton
Upton Conservation Commission
1 Main Street
Upton, MA 01568



Scale 1"=660'

Legend

- Forest Type Boundary
- ST-# Forest Type Code- See Page 2
- SEED Seed Tree Cut Area
- ... Existing Wood Road
- Perennial Stream
- - - Seasonal Stream
- //// 50' Filter Strip
- WC-# Wetland Crossing - See Page 1
- ~ Seasonally Wet Pocket
- L Proposed Landing
- OUT Different Owner
- ... Treatment Area

Prepared By
Philip B. Benjamin, CF and Thomas P. Farrell
Benjamin Forestry Services, Inc.
So. Easton, Massachusetts 02376
January 30, 2020

dcr

COMMONWEALTH OF MASSACHUSETTS

Department of Conservation and Recreation

Division of State Parks and Recreation



FILE #

303-26801-20

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

Upton Con. Comm.

(Name of Owner)

Upton, MA

(Address)

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

Grafton

lot.

Approval Date

5-15-20

Director's Agent

Guy LaChance

DCR Phone No.

508-792-7714 x130

ISSUED BY:

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