|  |  |
| --- | --- |
| Project Name:Hyde Karlson Lot | Date Proposed: 2/22/22 |
| Property Name: Sandisfield SF | Town(s): Sandisfield |
| Acres: 234 | Landscape Designation: Woodland |
| Forestry District: SBK | Rec Complex/District: Lakes District |
| Forester: Jeff Martin | FOTL/F&P Supervisor: Adam Morris |

MASSACHUSETTS FOREST ACTION PLAN GOALS

|  |
| --- |
| \* Increase resistance and resilience of trees and forests to mitigate and adapt to the effects of climate change |
| \* Manage forest ecosystem health and biodiversity |
| \* Cultivate and support partnerships with forestry and conservation Stakeholders |
| \* Other Part of the Landscape Scale Restoration Grant Project. |

GENERAL LOT DESCRIPTION

|  |  |  |  |
| --- | --- | --- | --- |
| **Acres** | **Forest Type** | | **Stand Description** |
| 106 | Overstory: Hemlock/Hardwoods | Understory: sparse, mostly beech, hemlock and various woodland shrubs and plants like mountain laurel and in the wetter areas winter berry can be found. | Stands are mixed hemlock hardwood with approximately 50% hemlock and hardwoods consisting of Beech, Sugar maple, Red maple, Ash and Red oak. |
| 96 | Overstory: Beech/Birch/Maple | Understory: variable, beech dominates with lesser amounts of birch, sugar maple, black cherry and oak. | Northern hardwood and associates stands of Beech, Sugar maple, Ash, Oak, Yellow and Black Birch with some White Pine and Hemlock. Stands in the eastern half of proposal area are mature with no recent management while western stands contain similar species and smaller diameter trees. |
| 18 | Overstory: White pine/Hemlock | Understory: Sparse Beech with some White Pine and Red Maple. Mountain laurel, Striped maple and Arrowood are common shrubs found in the understory. | White Pine dominates these smaller stands with some hemlock and hardwoods also occurring. Many of the Pine are of large diameter and weeviled. |
| 13 | Overstory: Norway Spruce | Understory: sparse, mostly spruce seedlings and black birch. In the managed spruce stand black birch regeneration dominates. | Norway Spruce plantations, planted by CCC workers based out of York Lake, Sandisfield State Forest. The five acre roadside stand in the west has not been managed and is dense and overcrowded. The eight acre stand in the east was thinned in 2002 and many of the residual trees have blown over since then. |

|  |
| --- |
| Description of Project Area: Transitional hardwoods with non-native plantations. |

# SOILS AND TOPOGRAPHIC FEATURES

|  |  |  |
| --- | --- | --- |
| Acres | Soil Type | Drainage Characteristic |
| 123 | TuC Berk. | Moderately deep well drained Tunbridge soils and shallow excessively drained Lyman soils of moderate permeability and a shallow depth to bedrock of 26 inches. |
| 87 | LtE Berk. | Excessively drained Lyman soils and moderately deep, well drained Tunbridge soils of moderate permeability with a shallow depth to bedrock. |
| 20 | PoB Berk. | Very deep poorly drained soils of moderate water capacity and a seasonal high water table. |
| 3.5 | W Berk. | Wareham soils are very deep, moderate to poorly drained, with rapid permeability and a high water table in winter and early spring. |

|  |  |
| --- | --- |
| Average Slope Percent:Variable | Terrain Consistency: Variable |
| General Aspect:Varied | Terrain Position: Multiple |
| Description of Soils and Topographic Features: Tunbridge soils are on the flatter parts of slopes and Lyman soils are on the upper slopes. Included in these soils are areas of rock outcrop and very deep Berkshire soils at bottom of slopes. Also included are poorly drained soils in nearly level areas and depressions. They are mostly woodland soils with moderate available water capacity and a propensity for windthrow due to shallow depth to bedrock. The Pillsbury loam soils are located near wetlands at the foot of slopes and in concave areas. They contain a seasonal high water table in the winter and early spring limiting access to these areas. The smallest unit of soils in the project area is the Wareham loamy fine sand series and are very deep with rapid permeability and a high seasonal water table. This area is currently covered by a Norway spruce plantation. | |

# WETLAND FEATURES

|  |  |  |  |
| --- | --- | --- | --- |
|  | Present | Crossing | Work within Filter/Buffer |
| Wetlands: | Yes | Possible | Yes |
| Regulated Streams: | Yes | Possible | Possible |
| Non-Regulated Streams: | Possible | Possible | Yes |
| Vernal Pools: | Possible | No | Possible |
| Seeps: | Yes | No | Possible |

|  |
| --- |
| Description of Wetland Features: There are several small to medium sized wetland areas within the project area and a large abutting wetland to the east and south of the area. Crossings on regulated streams are not anticipated but it is possible that crossing non-regulated streams and wetlands may be necessary. |

CULTURAL RESOURCES

|  |  |  |  |
| --- | --- | --- | --- |
|  | Present | At Risk | Work Within Buffer |
| Stone Walls: | Yes | Possible | Possible |
| Foundation / Cellar Hole: | Yes | Possible | Possible |
| Well: | Possible | Possible | Possible |
| Structures: | No | No | No |
| Cemetery: | No | No | No |
| Other: Click or tap here to enter text. | Choose an item. | Choose an item. | Choose an item. |

|  |
| --- |
| Description of Cultural Resources: Stone walls are present on property and one known cellar hole is located within the eastern spruce plantation. Features are at risk of disturbance by windfall of large shallow rooted trees. Other cultural resources could be identified during prescription cruise and marking operations. |

NATURAL HERITAGE / WILDLIFE-HABITAT MANAGEMENT / OTHER RESOURCES

|  |  |
| --- | --- |
| Natural Heritage Polygon: No | Natural Heritage Restrictions: No |
| Restrictions on Harvest Description: Click or tap here to enter text. | |

|  |  |
| --- | --- |
| Wildlife Specific Management: Yes | Targeted Species: Young Forest speies such as, American woodcock, Chestnut sided warbler, and Ruffed grouse |
| Goals: To create young forest habitat for avian and other wildlife | |

|  |  |
| --- | --- |
| Additional Habitat Management: Yes | Habitat Type: Young forest in small openings |
| Goals: Diversify stand structure to create multiple age classes to benefit wildlife habitat by increasing forage availability. | |

|  |  |
| --- | --- |
| State Forest Action Plan: Yes | State Wildlife Action Plan: Yes |
| ACEC: No | Public Water Supply: No |
| BIO Map2: No | Current Resource Management Plan: No |
| Additional Detail: An increase in the amount of young forest habitat has been identified by Mass Wildlife in the 2015 Forest Action Plan. | |

FOREST HEALTH / INVASIVE SPECIES

|  |  |
| --- | --- |
| Forest Health Concern: Yes | Species Affected: White Ash, Norway Spruce, Hemlock |
| Management Considerations: Ash trees are declining from Emerald Ash Borer and spruce stands contain root rot and potentially spruce gall adelgid. Hemlock trees may have wooly adelgid and or elongate scale infestations. | |

|  |  |
| --- | --- |
| Plant Invasive Species Present: Possible | Species Present: Click or tap here to enter text. |
| Management Considerations: Chemical or mechanical control. | |

|  |  |
| --- | --- |
| Insect Invasive Species Present: Yes | Species Present: Emerald Ash Borer |
| Management Considerations: Salvage Ash trees | |

CLIMATE ADAPTATION AND CARBON CONSIDERATIONS

|  |  |  |
| --- | --- | --- |
| **Action Type** | **Identified Issue** | **Action Description** |
| Resilience | Predominately mature even aged forest | Create variable age/stage. classes |

|  |
| --- |
| Adaptive Management Strategies: Irregular shelterwood treatment with 5 acre openings. |

**INFRASTRUCUTRE / RECREATION/ AESTHETICS**

|  |  |
| --- | --- |
| Access Road: Woods road built by the CCC | Ownership: Town owned |
| Condition: Fair condition | Road Repair/Upgrade: Yes |
| Existing Landing: Yes | Landing Repair/Upgrade: Yes |
| Project Access and Landing Site: Access will be from New Hartford Rd. One internal landing and a roadside landing will be needed. | |

|  |  |
| --- | --- |
| Existing Skid Trail Network: Yes | Pre-Harvest Repair/Upgrade: Possible |
| Skid Trail Network Description: Will follow existing trails where appropriate, need to identify locations in field | |

|  |  |
| --- | --- |
| Shared Infrastructure: Yes | Road/Trail Names: Access road is also used as a driveway for a private residence. |
| Management Considerations: Will coordinate with homeowner to maintain road in good condition. | |

|  |  |
| --- | --- |
| Official Trail Present: Yes | Condition: CCC Road in fair condition |
| Illegal Trail Present: Yes | Condition: Hiking and Horseback trail was built by abutting property owner, mostly follows boundary line then enters DCR land and connects to CCC Road. Not sure of current condition at this time. |
| Existing Trail Head: No | Condition: Click or tap here to enter text. |
| Recreation Facility: No | Condition: Click or tap here to enter text. |
| Recreation and Aesthetic Concerns/Opportunities: Roadside landing for Spruce stand is very visible. | |

SILVICULTURE

|  |  |  |
| --- | --- | --- |
| **Acres** | **Silviculture Type** | **Silviculture Description** |
| 180 | Irregular Shelterwood | Shelterwood treatment with openings. |
| 40 | Clearcuts with reserves | Approximately 8, five acre openings with retention will be implemented across project area. |
| 13 | Clearcuts with reserves | Norway spruce stands to be converted to native stands with natural regeneration. |

|  |
| --- |
| General Comments on Silviculture Proposed: Treatment will target White ash and other declining species to create a more healthy and resilient forest. The five acre clearcuts in native stands will increase young forest habitat on the landscape. Norway spruce stands are in decline and will be converted to native stands. |

PERMIT REQUIREMENTS / OPPORTUNITIES

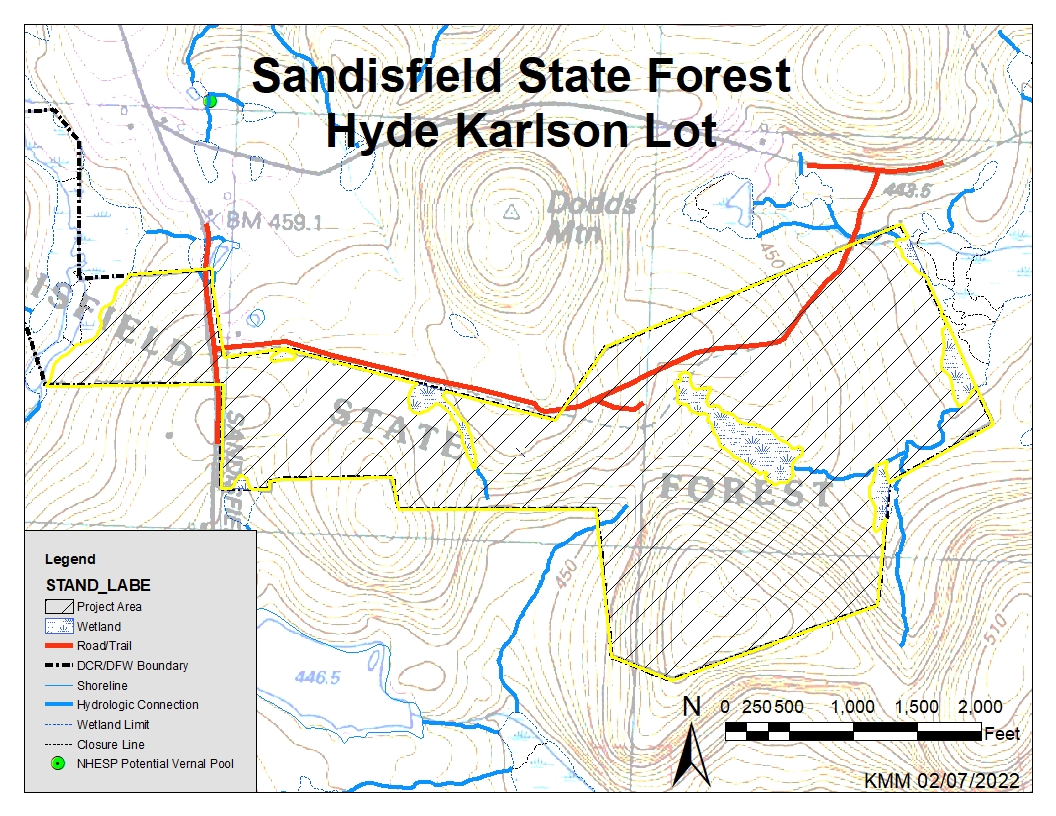
|  |  |
| --- | --- |
|  | Description |
| Seasonal Restrictions: Yes | Frozen or dry conditions required where soil stability is an issue. |
| Equipment Restrictions: Possible | May need to require tracked equipment to decrease soil impaction |
| Recreation Restrictions: No | Click or tap here to enter text. |
| Green Docket: No | Click or tap here to enter text. |
| In-kind Services: Yes | CCC road needs drainage work and material |

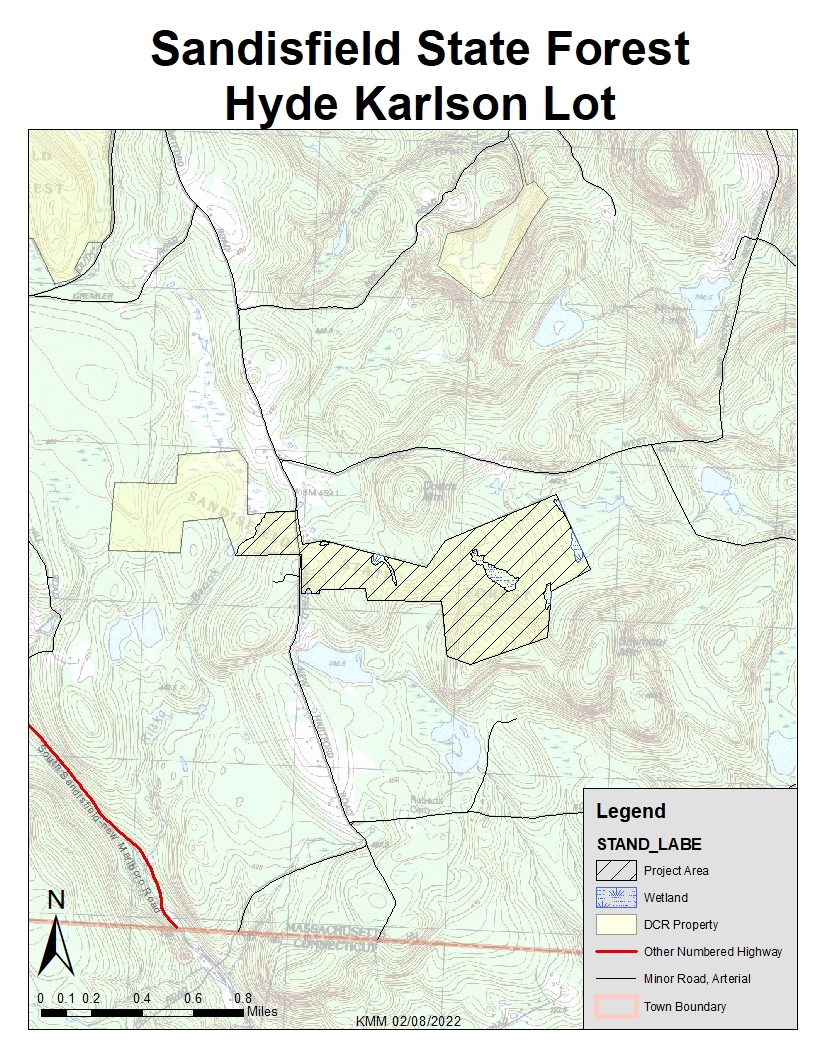
|  |
| --- |
| Potential Local Economic Benefits: Improving working rural economy and supplying firewood to a community which utilizes firewood as source of home heating. |

**Attachments:**

**Locus Map**

**Proposal Map**

****

****