

September 24, 2020

Mendon Conservation Commission
20 Main Street
Mendon, MA 01756

RE: RDA - 29 Hartford Avenue West
Map: 10, Lot: 29

Dear Mendon Conservation Commission:

Goddard Consulting, LLC is pleased to submit this Request for Determination of Applicability (RDA) under the MA Wetlands Protection Act (the WPA) and the Mendon Wetlands Protection Bylaw (the Bylaw) on behalf of the applicant, Rte. 85 Realty Corporation. The applicant seeks after-the-fact approval from the Mendon Conservation Commission (the Commission) and request a negative determination for the completed driveway repairs within the Buffer Zone to Bordering Vegetated Wetlands (BVW) at 29 Hartford Avenue West.

The titles of all the documents enclosed are as follows:

- RDA (WPA Form 1) Application Form
- Wetland Border Report: *29 Hartford Ave, Mendon, Goddard Consulting, LLC, 2/4/2020*
- Site Plans: *29 Hartford Avenue West, Driveway Maintenance & Resource Area Plan of Land in Mendon, MA, Guerriere & Halnon, Inc. 9/23/2020*

Existing Conditions

The site of the project has an existing single-family house set back from Hartford Avenue West by ~170 feet. The front of the property consists of BVW, which is bisected by an existing gravel driveway (~130 SF long) that runs from Hartford Avenue West to the main upland portion of the property, near the existing house. The BVW on each side of the driveway is hydraulically connected by an 18" diameter culvert, about 45 feet from Hartford Avenue West. This culvert is 1/3 to 1/2 half filled with sediment. The inlet, which is nearly blocked by a large rock, is on the west side of the driveway and the outlet is on the east side of the driveway, surrounded by dense vegetation. Rip rap, silt fence, and straw waddles line the edges of the gravel driveway, just outside of the BVW delineation.

Completed Work

Improvements to the existing gravel driveway were recently completed to make the driveway safer and more suitable for car traffic. Silt fence and straw waddles were installed along the edge of the gravel driveway to minimize impacts to the downgradient BVW. Rip rap was added

within the silt fence to reduce erosion even further. About 8 - 12 inches of unsuitable gravel was removed from the driveway, replaced with 8 - 12 inches of processed gravel, and topped with 4 inches of reprocessed asphalt. The gravel driveway is now packed flat, has no pockets for puddling, and is well drained. The surrounding BVW is unchanged; the BVW is void of any sediment, trash, or debris for the recent driveway improvements.



Photo 1: A view of the improved gravel driveway from Hartford Avenue West.



Photo 2: A blue wetland flag is seen in the center of the photo. To its left is forested BVW and to its right is the gravel driveway. The BVW remained undisturbed from the completed work.



Photo 3: The inlet to the culvert can be seen behind a large rock. The culvert is $\frac{1}{2}$ filled with years of sediment buildup from the surrounding BVW.




Photo 4: A view of the improved gravel driveway and Hartford Avenue West in the distance. Rip rap and silt fence can be seen at the edges of the driveway, preventing sediment from reaching the BVW.

Conclusion

Since the work was completed within the footprint of an existing gravel driveway with adequate erosion/sedimentation controls and no evidence of adverse impacts to the adjacent BVW, the applicant seeks approval from the Commission and requests a negative determination be made for the completed driveway repairs.

If there are any questions concerning this submission, please do not hesitate to contact us.

Very truly yours,
GODDARD CONSULTING, LLC



Scott Goddard,
Principal & PWS

Cc: MassDEP-CERO Office, Wetland Division, 8 New Bond Street, Worcester, MA 01606
John Nenart, 85 Realty Corp, P.O. Box 444, Mendon, MA 01756



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

John Nenart of RTE 85 Realty Corporation
Name johnn@imperialcars.com
E-Mail Address

PO Box 444
Mailing Address

Mendon MA 01756
City/Town State Zip Code

508-422-1050
Phone Number Fax Number (if applicable)

2. Representative (if any):

Goddard Consulting, LLC
Firm

Scott Goddard scott@goddardconsultingllc.com
E-Mail Address
Contact Name

291 Main Street
Mailing Address

Northborough MA 01532
City/Town State Zip Code

508-393-3784
Phone Number Fax Number (if applicable)

B. Determinations

1. I request the Mendon Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- d. whether the **work** depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Mendon (Mendon Wetlands Protection Bylaw)
Name of Municipality

- e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

(See cover letter from Goddard Consulting, LLC)

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

RTE 85 Realty Corp.

Name

PO Box 444

Mailing Address

Mendon

City/Town

MA

State

01756

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

Date

9/24/2020

Signature of Representative (if any)

Date

Feb 4, 2020

RTE 85 Realty Corp
8 Uxbridge Road
PO Box 444
Mendon, MA 01756

Re: 29 Hartford Ave, Mendon

Dear Mr. Nenart:

During the month of January 2020 during no snow and un-frozen ground conditions, the site was delineated for wetland resources at the above referenced site. The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and regulations 310 CMR 10.00 et al and the local wetland bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The resources delineated on site consist of Bordering Vegetated Wetland (BVW) and Isolated wetland (IVW). The BVWs (flagged with series GC1-135, C1-36, E1-65, F1-73 and G1-50) are located along the front of the property, within a middle portion of the site and to the north of the site. The wetlands are dominant in ferns, poison ivy, rushes, sedges, sweet pepperbush, highbush blueberry, tupelo, red maple, birch and buckthorn. The adjacent upland is dominant in Japanese knotweed, goldenrod, rose, witch hazel, honeysuckle, oak, pine and buckthorn. Department of Environmental Protection BVW field data forms were documented at wetland flags GC51, C29 and E61 (see attached forms).

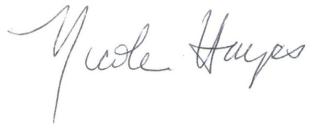
An isolated ponded area was flagged with series D1-22. This resource is located on the south-western side of the site and appears to flood up several feet in depth. This area should be calculated to see if it meets the definition of Isolated Land Subject to Flooding (ILSF, which by definition is an area able to hold ¼ acer foot of water at a minimum depth of 6-inches). Two smaller Isolated Vegetated Wetlands (IVW) flagged with series A1-5 and B1-6. These wetlands were dominant in ferns, highbush blueberry, poison ivy, and sedges and where located in an upland pine/oak forest.

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife, and no mapped vernal pools are located on or near the site. A portion of the site is located within a jurisdictional FEMA flood zone and therefore the resource Bordering Land Subject to Flooding is located from the Mean Annual High-Water line up to the 100-year FEMA flood elevation. This resource will be outlined on corresponding plans.

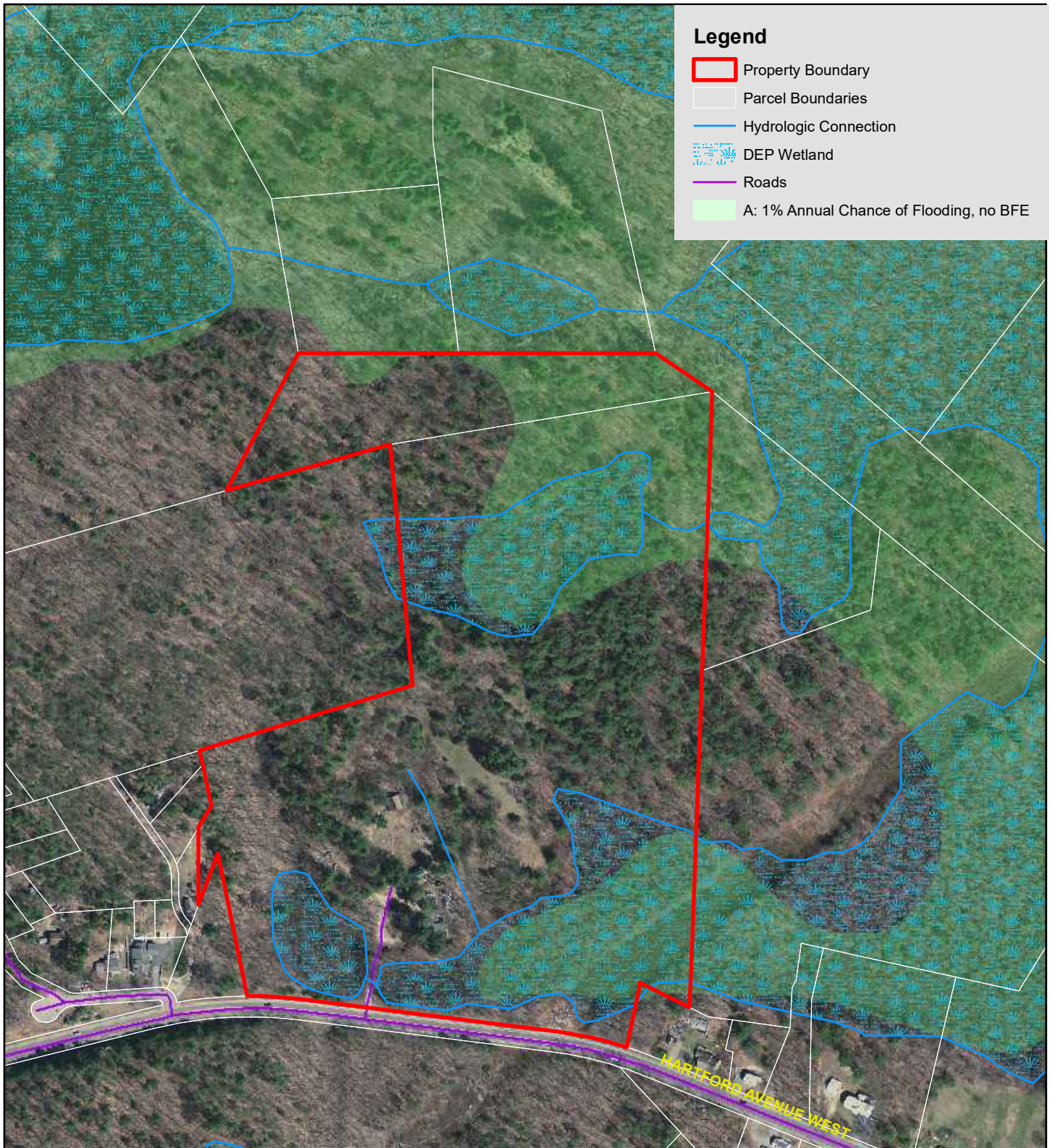
Any work within the resource areas (BVW, potential ILSF and the bylaw jurisdictional IVW) and/or the corresponding 100-foot buffer zone requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission. If you need further assistance with permitting, please call us we would be happy to assist.

Sincerely,
GODDARD CONSULTING, LLC

by

A handwritten signature in cursive script that reads "Nicole Hayes". The signature is written in a light gray or blue ink.

Nicole Hayes, PWS
Senior Wetland Scientist



Legend

- Property Boundary
- Parcel Boundaries
- Hydrologic Connection
- DEP Wetland
- Roads
- A: 1% Annual Chance of Flooding, no BFE

Orthophoto View of Site
 29 Hartford Ave West - Mendon, MA
 (Maps:7 &10 , Lots: 141-27 &141-29)

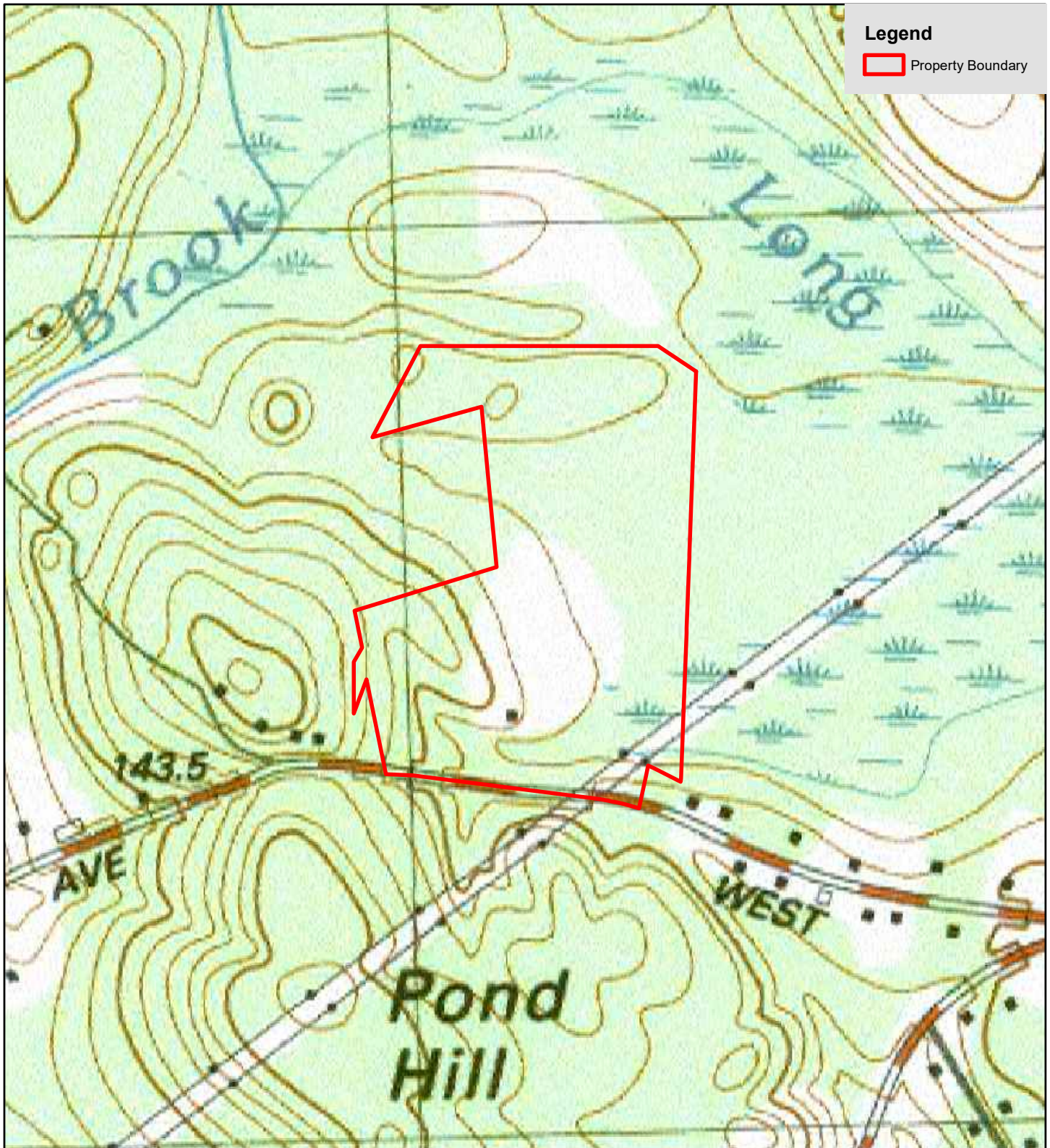
N Date: 1/21/20

0 125 250 500 Feet

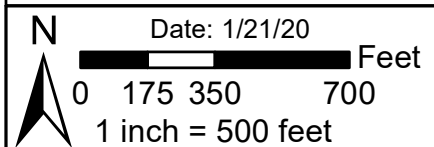
1 inch = 333 feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"





USGS of Site Locus
 29 Hartford Ave West - Mendon, MA
 (Maps:7 &10 , Lots: 141-27 &141-29)



GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"



DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: Goddard Consulting LLC Project location: Mendon, 29 Hartford Ave DEP File #: _____
 Check all that apply:

| | |
|-------------------------------------|---|
| <input type="checkbox"/> | Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only |
| <input checked="" type="checkbox"/> | Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II |
| <input type="checkbox"/> | Method other than dominance test used (attach additional information) |

Section I. Vegetation Observation Plot Number: GC-51 Transect Number: Upgradient Date of Delineation: 28-Jan-20

| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
|-----------------------------------|---------------------------|---------|-------------|----------------------------|-----------------------------|
| <u>Tree Layer</u> | | | | | |
| Red oak | <i>Quercus rubra</i> | 10% | 33.3% | Yes | FACU |
| White pine | <i>Pinus strobus</i> | 20% | 66.7% | | FACU |
| | | | | | |
| <u>Sapling Layer</u> | | | | | |
| | | | | | |
| <u>Shrub Layer</u> | | | | | |
| Black cherry | <i>Prunus serotina</i> | 20% | 40.0% | Yes | FACU |
| Rambler rose | <i>Rosa multiflora</i> | 20% | 40.0% | Yes | FACU |
| Honeysuckle | <i>Lonicera sp.</i> | 10% | 20.0% | Yes | FACU |
| | | | | | |
| <u>Climbing Woody Vine</u> | | | | | |
| American bittersweet | <i>Celastrus scandens</i> | 10% | 100.0% | Yes | FACU |
| | | | | | |
| <u>Ground Cover</u> | | | | | |
| | | | | | |

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:
Number of dominant wetland indicator plants: 0 **Number of dominant non-wetland indicator plants: 5**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Chatfield Hollis rock outcrop

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| A | 0-8" | 10YR2/2 | |
| B | 8-18" | 10YR5/4 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Upgradient of GC-51 | | |
|--|------------|-----------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | | X |
| Wetland hydrology present: | | |
| hydric soils present | | X |
| other indicators of hydrology present | | X |
| Sample location is in a BVW | | X |

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: Goddard Consulting LLC Project location: Mendon, 29 Hartford Ave DEP File #: _____
 Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: GC-51 Transect Number: Downgradient Date of Delineation: 28-Jan-20

| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
|-----------------------------------|-------------------------------|---------|-------------|----------------------------|-----------------------------|
| <u>Tree Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 36% | 100.0% | Yes | FAC* |
| <u>Sapling Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 10% | 100.0% | Yes | FAC* |
| <u>Shrub Layer</u> | | | | | |
| Highbush blueberry | <i>Vaccinium corymbosum</i> | 20% | 35.7% | Yes | FACW* |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 36% | 64.3% | Yes | FAC* |
| <u>Climbing Woody Vine</u> | | | | | |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 3% | 100.0% | Yes | FAC* |
| <u>Ground Cover</u> | | | | | |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 20% | 66.7% | Yes | FAC* |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 10% | 33.3% | Yes | FAC* |

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:
Number of dominant wetland indicator plants: 7 **Number of dominant non-wetland indicator plants: 0**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Freetown muck

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| O | 0-10" | 10YR2/1 | |
| C | 10-19 | 10YR6/1 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Downgradient of GC-51 | | |
|--|------------|-----------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | X | |
| Wetland hydrology present: | | |
| hydric soils present | X | |
| other indicators of hydrology present | | X |
| Sample location is in a BVW | | X |

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Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Chatfield Hollis rock outcrop

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| A | 0-7" | 10YR2/2 | |
| B | 7-18" | 10YR5/4 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Upgradient of C29 | | |
|--|------------|-----------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | | X |
| Wetland hydrology present: | | |
| hydric soils present | | X |
| other indicators of hydrology present | | X |
| Sample location is in a BVW | | X |

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: Goddard Consulting LLC Project location: Mendon, 29 Hartford Ave DEP File #: _____
 Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: C29 Transect Number: Downgradient Date of Delineation: 22-Jan-20

| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
|-----------------------------------|-------------------------------|---------|-------------|----------------------------|-----------------------------|
| <u>Tree Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 36% | 64.3% | Yes | FAC* |
| American elm | <i>Ulmus americana</i> | 20% | 35.7% | Yes | FACW* |
| | | | | | |
| <u>Sapling Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 10% | 100.0% | Yes | FAC* |
| | | | | | |
| <u>Shrub Layer</u> | | | | | |
| Highbush blueberry | <i>Vaccinium corymbosum</i> | 36% | 50.0% | Yes | FACW* |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 36% | 50.0% | Yes | FAC* |
| | | | | | |
| <u>Climbing Woody Vine</u> | | | | | |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 3% | 100.0% | Yes | FAC* |
| | | | | | |
| <u>Ground Cover</u> | | | | | |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 20% | 66.7% | Yes | FAC* |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 10% | 33.3% | Yes | FAC* |

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:
Number of dominant wetland indicator plants: 8 **Number of dominant non-wetland indicator plants: 0**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Freetown muck

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| O | 0-8" | 10YR2/1 | |
| C | 8-19 | 10YR6/1 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Downgradient of C29 | | |
|--|-------------------|------------------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | X | |
| Wetland hydrology present: | | |
| hydric soils present | X | |
| other indicators of hydrology present | X | |
| Sample location is in a BVW | X | |

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: Goddard Consulting LLC Project location: Mendon, 29 Hartford Ave DEP File #: _____
 Check all that apply:

| | |
|-------------------------------------|---|
| <input type="checkbox"/> | Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only |
| <input checked="" type="checkbox"/> | Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II |
| <input type="checkbox"/> | Method other than dominance test used (attach additional information) |

Section I. Vegetation Observation Plot Number: **E61** Transect Number: **Upgradient** Date of Delineation: **22-Jan-20**

| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
|-----------------------------------|---------------------------|---------|-------------|-------------------------------|--------------------------------|
| <u>Tree Layer</u> | | | | | |
| Red oak | <i>Quercus rubra</i> | 36% | 39.1% | Yes | FACU |
| White pine | <i>Pinus strobus</i> | 36% | 39.1% | Yes | FACU |
| Northern white oak | <i>Quercus alba</i> | 20% | 21.7% | Yes | FACU |
| | | | | | |
| <u>Sapling Layer</u> | | | | | |
| | | | | | |
| <u>Shrub Layer</u> | | | | | |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 20% | 100.0% | Yes | FAC* |
| | | | | | |
| <u>Climbing Woody Vine</u> | | | | | |
| American bittersweet | <i>Celastrus scandens</i> | 3% | 100.0% | Yes | FACU |
| | | | | | |
| <u>Ground Cover</u> | | | | | |
| | | | | | |

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:
Number of dominant wetland indicator plants: 1 **Number of dominant non-wetland indicator plants: 4**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Scituate

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| A | 0-6" | 10YR2/2 | |
| B | 6-18" | 10YR5/4 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Upgradient of E61 | | |
|--|------------|-----------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | | X |
| Wetland hydrology present: | | |
| hydric soils present | | X |
| other indicators of hydrology present | | X |
| Sample location is in a BVW | | X |

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: Goddard Consulting LLC Project location: Mendon, 29 Hartford Ave DEP File #: _____
 Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: **E61** Transect Number: **Downgradient** Date of Delineation: **22-Jan-20**

| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
|-----------------------------------|-------------------------------|---------|-------------|-------------------------------|--------------------------------|
| <u>Tree Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 36% | 54.5% | Yes | FAC* |
| Red Oak | <i>Quercus rubra</i> | 10% | 15.2% | No | FACU |
| Swamp white oak | <i>Quercus bicolor</i> | 20% | 30.3% | Yes | FACW* |
| | | | | | |
| <u>Sapling Layer</u> | | | | | |
| Red Maple | <i>Acer rubrum</i> | 20% | 66.7% | Yes | FAC* |
| White pine | <i>Pinus strobus</i> | 10% | 33.3% | Yes | FACU |
| | | | | | |
| <u>Shrub Layer</u> | | | | | |
| Highbush blueberry | <i>Vaccinium corymbosum</i> | 36% | 36.4% | Yes | FACW* |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 63% | 63.6% | Yes | FAC* |
| | | | | | |
| <u>Climbing Woody Vine</u> | | | | | |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 3% | 100.0% | Yes | FAC* |
| | | | | | |
| <u>Ground Cover</u> | | | | | |
| Sweet pepperbush | <i>Clethra alnifolia</i> | 36% | 78.3% | Yes | FAC* |
| Eastern poison ivy | <i>Toxicodendron radicans</i> | 10% | 21.7% | Yes | FAC* |

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:
Number of dominant wetland indicator plants: 8 **Number of dominant non-wetland indicator plants: 1**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Southern Part - 1998

map number: _____

soil type mapped: Ridgebury

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

| <u>Horizon</u> | <u>Depth (inches)</u> | <u>Matrix Color</u> | <u>Mottles Color or Texture</u> |
|----------------|-----------------------|---------------------|---------------------------------|
| O | 0-10" | 10YR2/1 | |
| C | 10-20 | 10YR6/1 | |
| | | | |
| | | | |
| | | | |

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

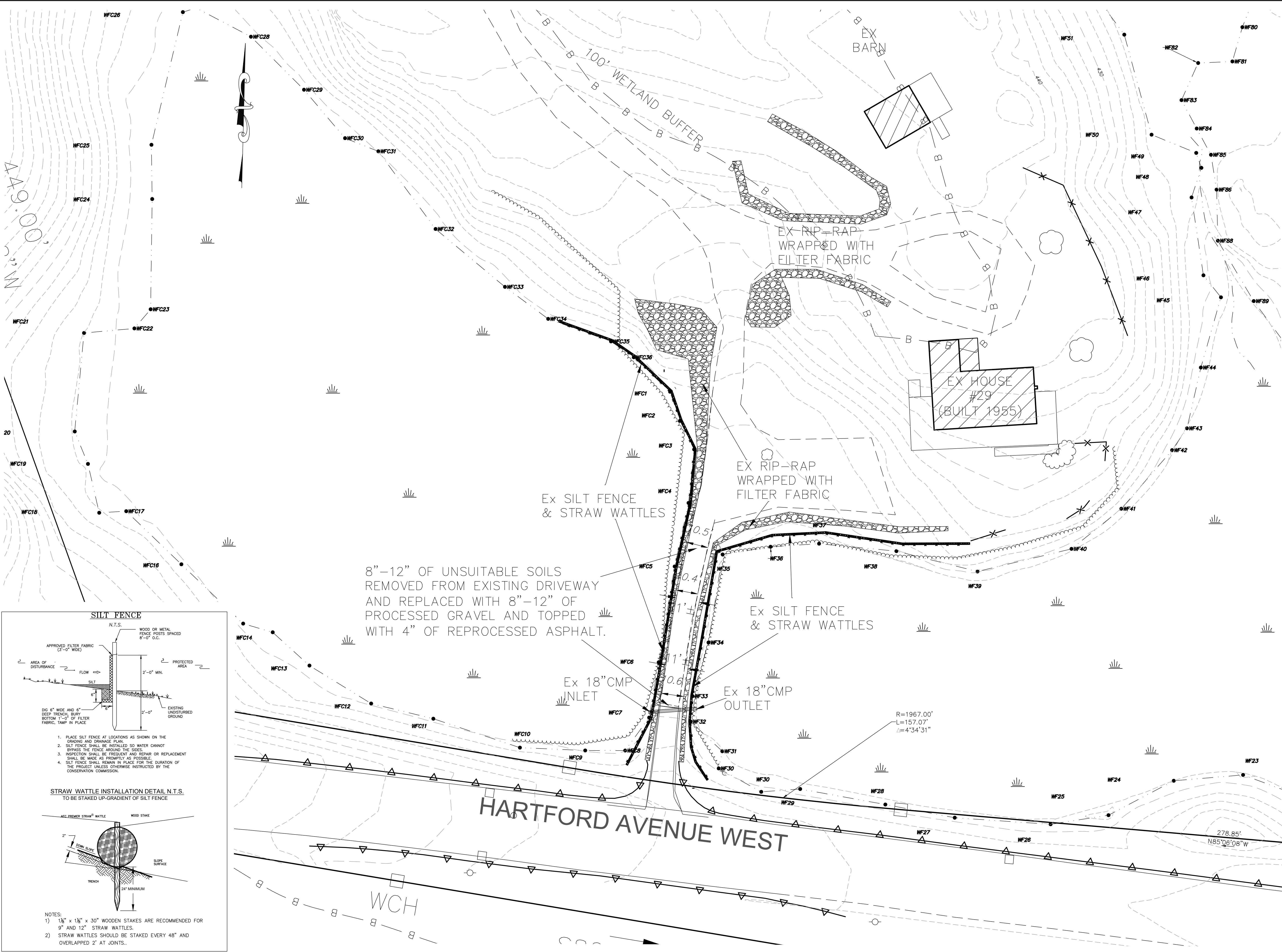
Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

| Vegetation and Hydrology Conclusion for Downgradient of E61 | | |
|--|------------|-----------|
| | <u>yes</u> | <u>no</u> |
| Number of wetland indicator plants | | |
| >= number of non-wetland plants | X | |
| Wetland hydrology present: | | |
| hydric soils present | X | |
| other indicators of hydrology present | X | |
| Sample location is in a BVW | X | |

Submit this form with the Request for Determination of Applicability or Notice of Intent



| | |
|-------|-------|
| DATE: | DATE: |
|-------|-------|

CONSTRUCTION ON THIS LOT IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

- NOTES**
1. WETLANDS DELINEATED BY GODDARD CONSULTING IN FEBRUARY, 2020 AND LOCATED AND PLOTTED BY GUERRIERE & HALNON, INC.
 2. ALL EROSION CONTROL MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH GROWING VEGETATION.

LEGEND

| | |
|------------------------------------|-------------------------------------|
| --- | EXISTING CONTOUR |
| - - - - | EX. SILT FENCE W/ STRAW WADDLES |
| ~ ~ ~ ~ | EX. TREE LINE |
| WF-61 | EX. WETLANDS LINE |
| WF-61 | WETLANDS FLAG |
| WF-61 | WETLANDS SYMBOL |
| WF-61 | 100' WETLANDS BUFFER |
| EX RIP-RAP WRAPPED W/FILTER FABRIC | EX. RIP-RAP WRAPPED W/FILTER FABRIC |
| --- | EX. DRIVEWAY |

OWNER
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

APPLICANT
 ROUTE 85 REALTY CORP.
 P.O. BOX 444
 MENDON, MA 01756

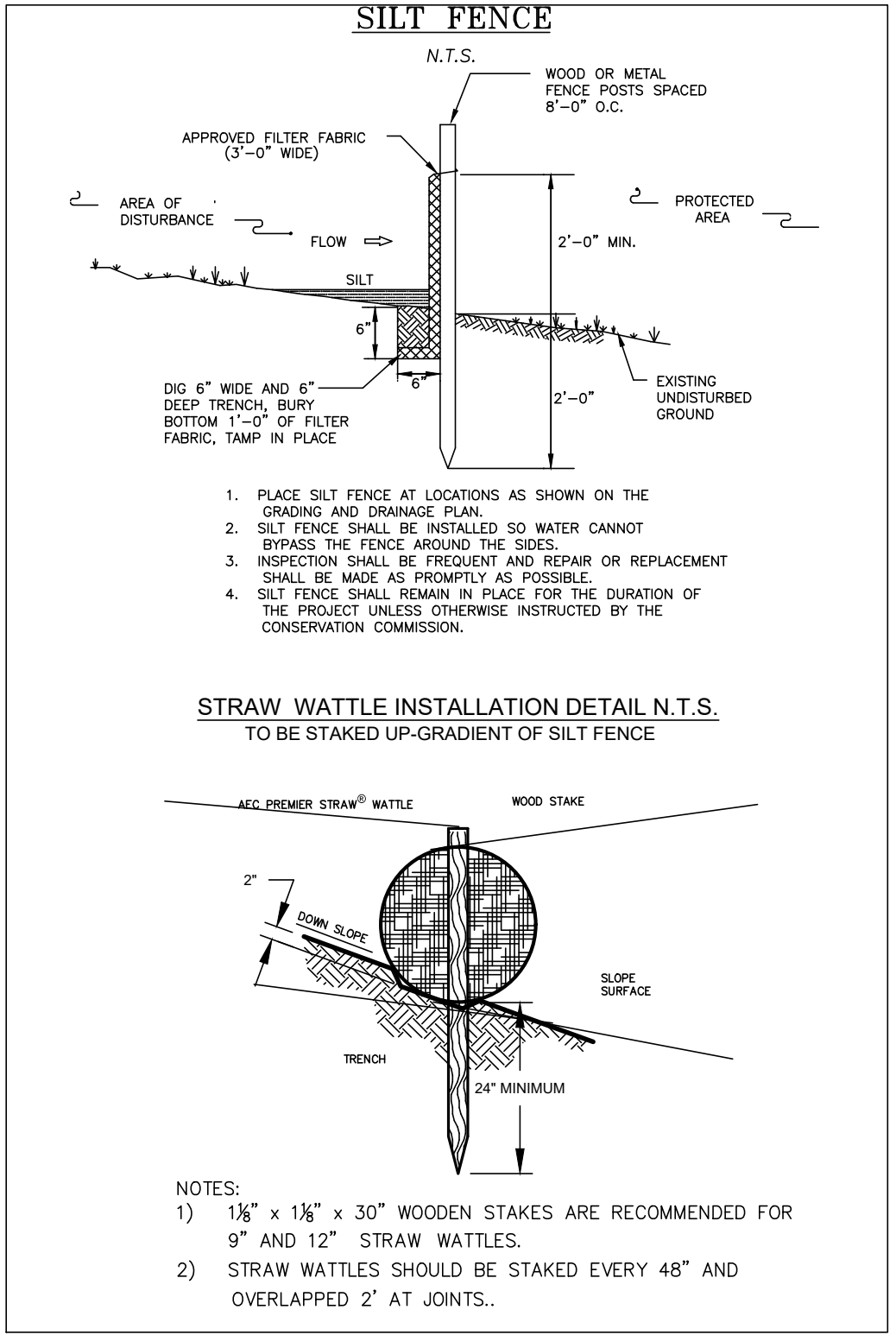
29 HARTFORD AVENUE WEST

DRIVEWAY MAINTENANCE & RESOURCE AREA PLAN
 PLAN OF LAND
 IN
MENDON, MA
 SCALE: 20 FEET TO AN INCH
 DATE: SEPTEMBER 23, 2020

| # | DATE | DESCRIPTION | INI |
|---|------|-------------|-----|
| | | | |
| | | | |
| | | | |
| | | | |

Guerriere & Halnon, Inc.
 Engineering & Land Surveying
 333 WEST STREET, MILFORD, MASS. 01757
 (508) 473-0630 FAX: (508) 473-8243
 www.gandhengineering.com

SHEET 1 OF 1 G-10255



8"-12" OF UNSUITABLE SOILS REMOVED FROM EXISTING DRIVEWAY AND REPLACED WITH 8"-12" OF PROCESSED GRAVEL AND TOPPED WITH 4" OF REPROCESSED ASPHALT.

HARTFORD AVENUE WEST