

See 6-15-2020?



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

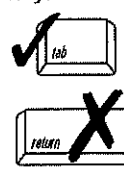
Marlborough
City/Town

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:

Name: AMANDA MORSE E-Mail Address: AM.MORSE@VERIZON.NET

Mailing Address: 215 COLLINANE DR.

City/Town: Marlborough State: MA Zip Code: 01752

Phone Number: 508-476-7724 (cell) Fax Number (if applicable): _____

2. Representative (if any):

Firm: _____

Contact Name: _____ E-Mail Address: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Fax Number (if applicable): _____

B. Determinations

1. I request the 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 area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Name of Municipality: _____

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

See 6-15-2020?



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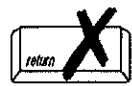
Marlborough
City/Town

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A. General Information

Important:
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1. Applicant:

Name: Amanda Morse E-Mail Address: AM.MORSE@verizon.net

Mailing Address: 215 Collinwood Dr.

City/Town: Marlborough State: MA Zip Code: 01752

Phone Number: 508-476-7724 (cell) Fax Number (if applicable): _____

2. Representative (if any):

Firm: _____

Contact Name: _____ E-Mail Address: _____

Mailing Address: _____

City/Town: _____ State: _____ Zip Code: _____

Phone Number: _____ Fax Number (if applicable): _____

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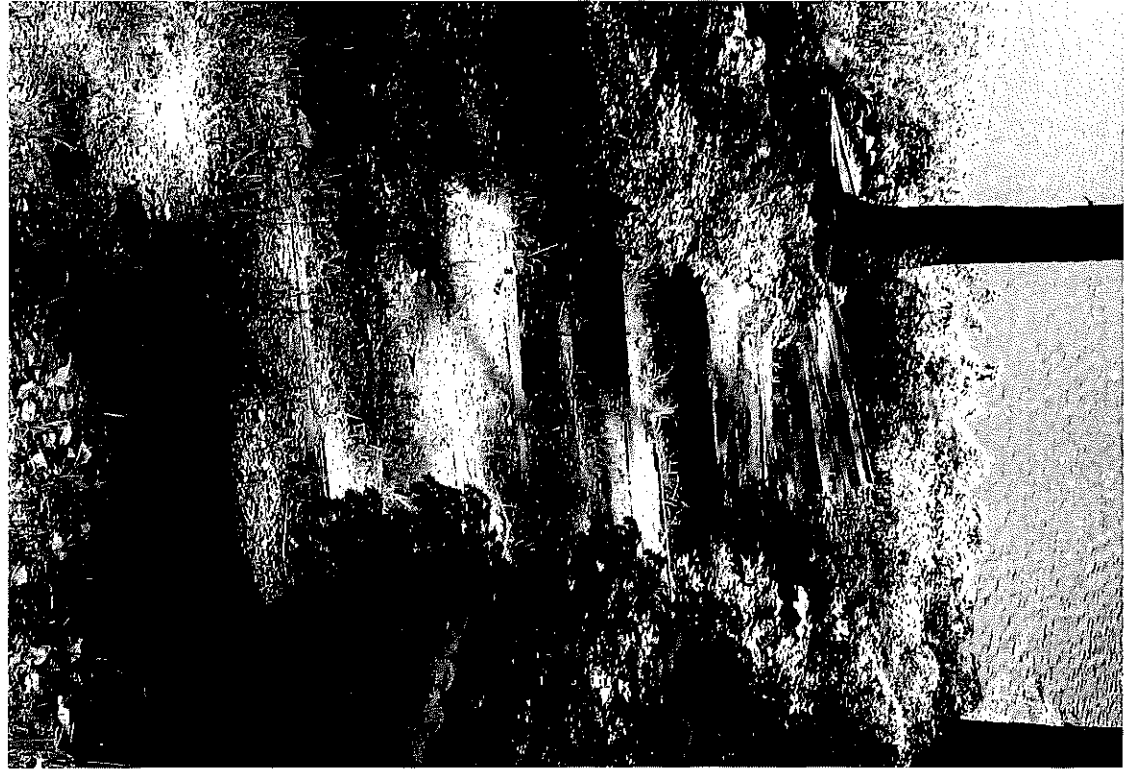
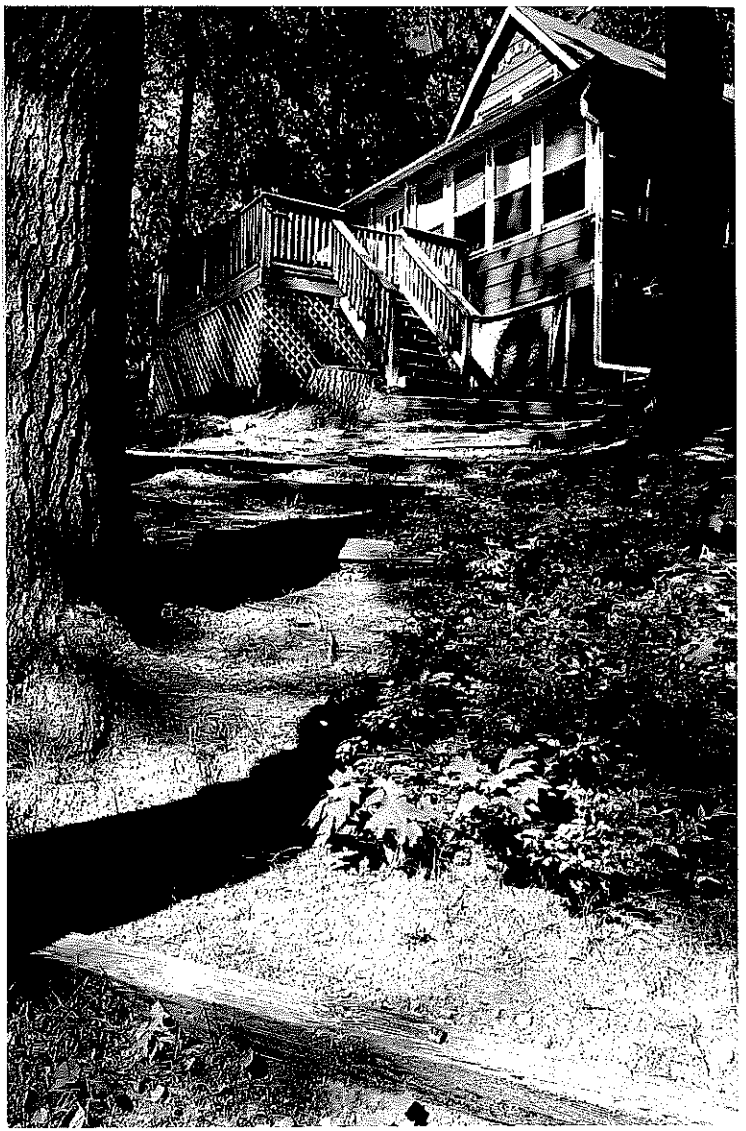
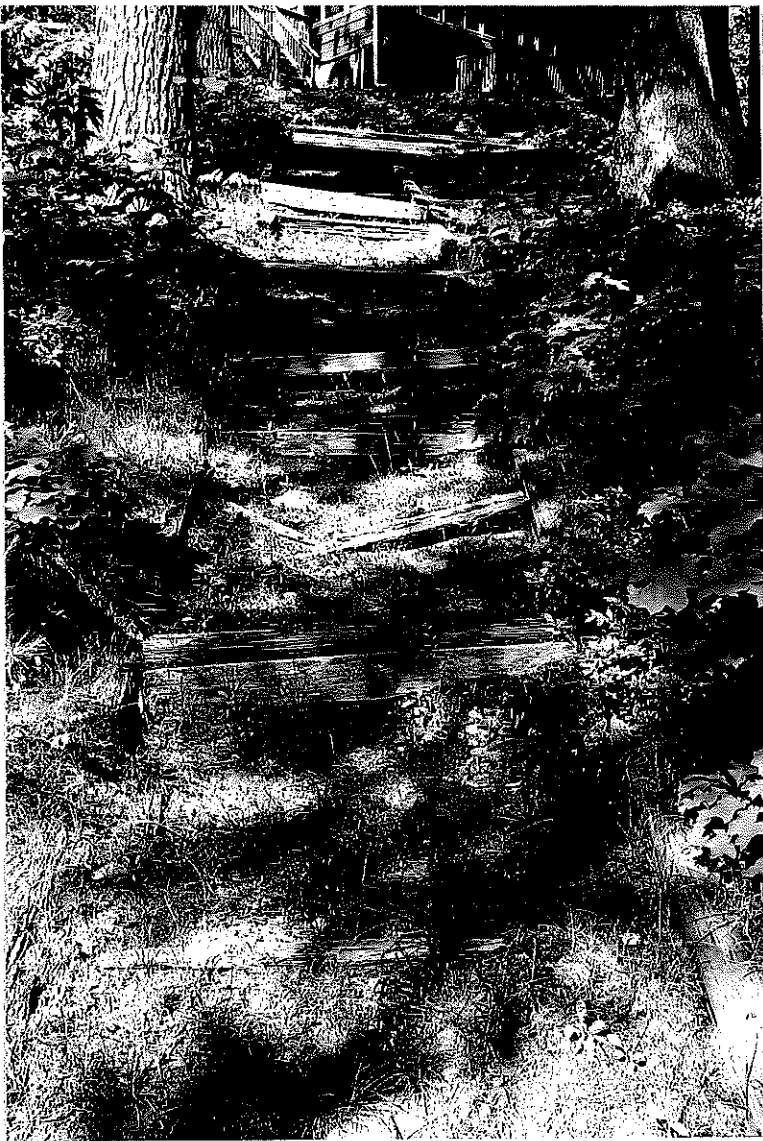
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e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).





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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

489 Stevens St Street Address	Marlborough City/Town
31-105 Assessors Map/Plat Number	Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

Replacing existing driveway that runs from Stevens St up the right side of the property forming a pad area in front of the garage. The new driveway will be the same area as the current driveway. This project will also add an approx 12' x 20' permeable crushed stone area at end of the driveway, replacing some existing lawn and our firewood storage area next to an existing garden shed. This new crushed stone section will be for parking our small camper off of the driveway.

- c. Plan and/or Map Reference(s):

_____	_____
Title	Date
_____	_____
Title	Date
_____	_____
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

Contractor will excavate all old existing asphalt and all unsuitable materials. Inspect existing foundation removing large stones. Contractor will then install new Tbase binder foundation approximately 6 to 12 inches compacting in 3 to 4 in stages (compacting in stages ensure proper compaction rate) using a vibratory machine roller.
Fine grade base with machine to correct pitch & levels. Repave Driveway with 3 1/2 inches of high-grade Driveway top machine roll to a smooth and compact finish. All exposed edges to be compacted to a 45° angle for extra support & aesthetics.
Seal end of driveway with liquid tac coat emulsion black sand.
Contractor will extend section at rear of driveway approximately 12' x 20' with permeable Tbase binder (Recycled asphalt) or crushed stone to be able to park a small camper.



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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).

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.)



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

City/Town _____

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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:

Brent Coullard

Name

489 Stevens St

Mailing Address

Marlborough

City/Town

MA

State

01752

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.

Brent Coullard

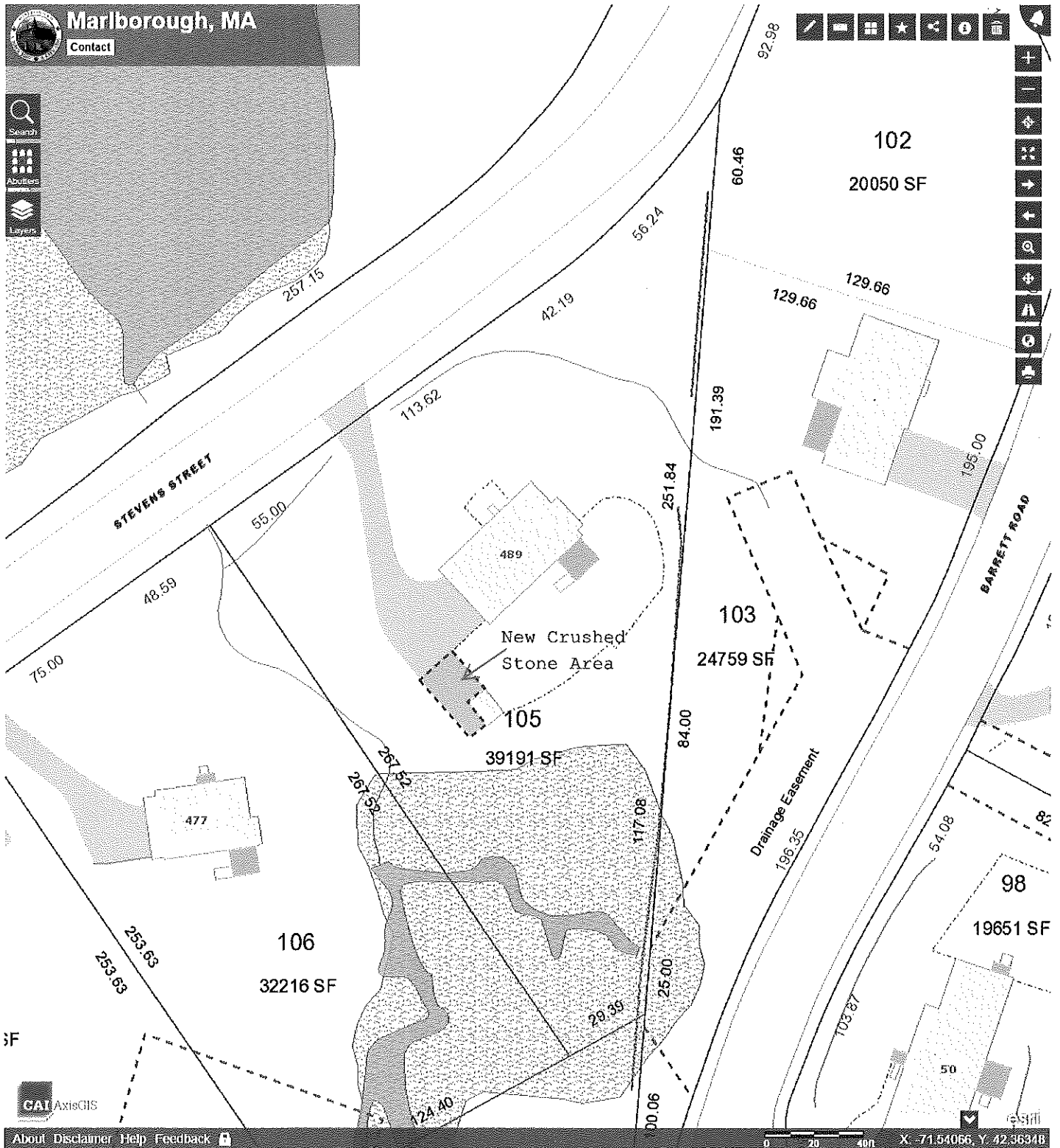
Signature of Applicant

6/27/2020

Date

Signature of Representative (if any)

Date





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489 Stevens St

Mailing Address

Marlborough

City/Town

MA

State

01752

Zip Code

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Brent Coullard

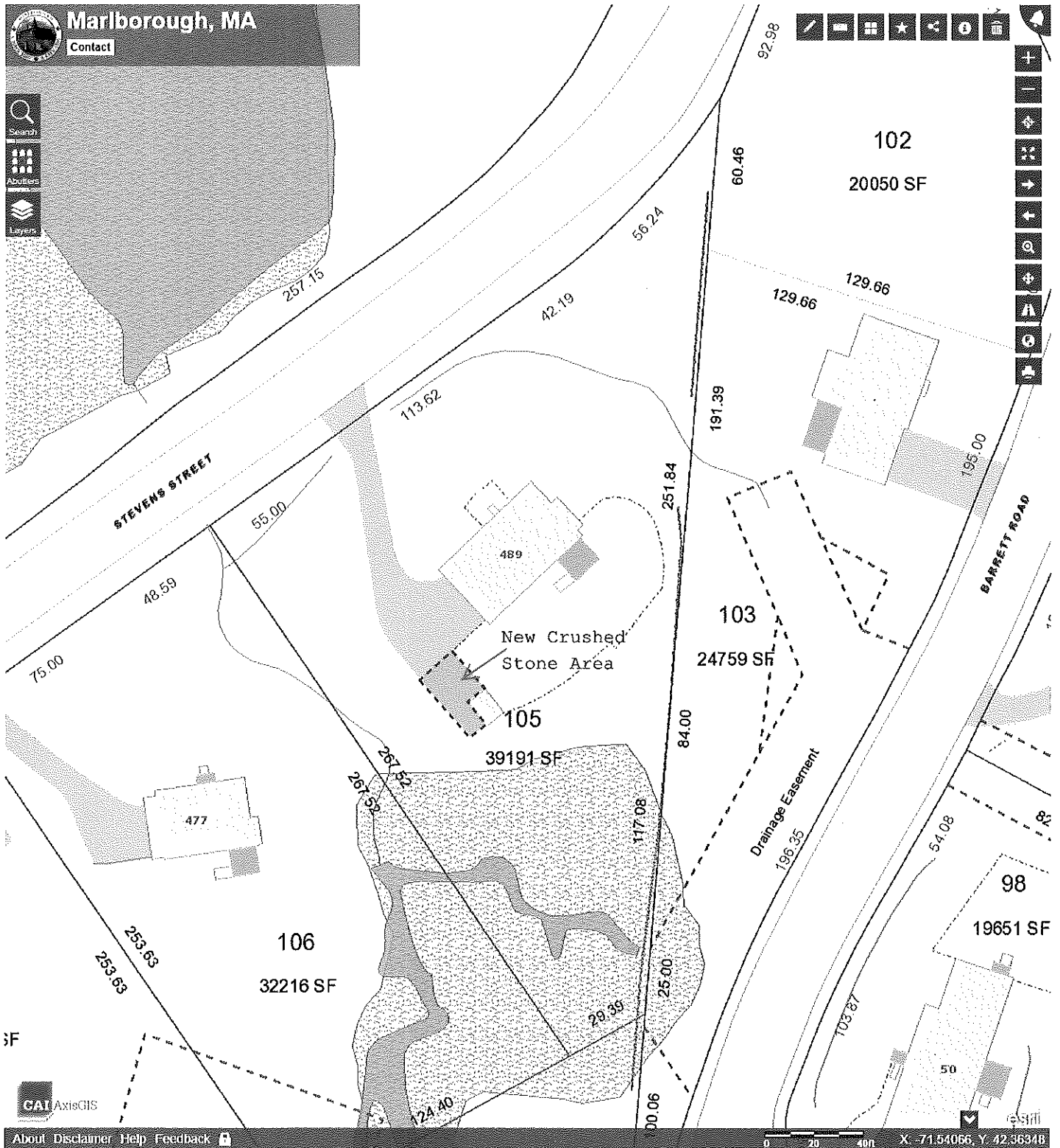
Signature of Applicant

6/27/2020

Date

Signature of Representative (if any)

Date



Susan Brown

From: Priscilla Ryder
Sent: Tuesday, July 21, 2020 3:38 PM
To: Susan Brown; irishclanc
Subject: FW: Conservation - Driveway replacement at 489 Stevens St

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Sue & Ed, Please add to documents for conservation meeting - as correspondence.

Just checking e-mail today for a few hours. Will work part time tomorrow and Thursday. 😊 Slow re-entry!

Priscilla

From: Jeffrey Cooke <jcooke@marlborough-ma.gov>
Sent: Thursday, July 9, 2020 7:59 AM
To: Thomas DiPersio <tdipersio@marlborough-ma.gov>
Cc: Priscilla Ryder <pryder@marlborough-ma.gov>; Timothy Collins <tcollins@marlborough-ma.gov>; Patrick Dahlgren <pdahlgren@marlborough-ma.gov>; Krista Holmi <kholmi@marlborough-ma.gov>
Subject: RE: Conservation - Driveway replacement at 489 Stevens St

This works for me, especially since this is a space intended for a trailer. Not much fluids in a trailer, and I would think that the reason for impervious surface is for early detection of any leaking fluids, thus protecting ground water resources.

Jeffrey Cooke, C.B.O.
Building Commissioner

From: Thomas DiPersio <tdipersio@marlborough-ma.gov>
Sent: Thursday, July 9, 2020 7:27 AM
To: Jeffrey Cooke <jcooke@marlborough-ma.gov>
Cc: Priscilla Ryder <pryder@marlborough-ma.gov>; Timothy Collins <tcollins@marlborough-ma.gov>; Patrick Dahlgren <pdahlgren@marlborough-ma.gov>; Krista Holmi <kholmi@marlborough-ma.gov>
Subject: RE: Conservation - Driveway replacement at 489 Stevens St

Hi Jeff,

In my opinion, if properly constructed, crushed stone is durable, dustless and all-weather. It is not impervious, obviously. But can we interpret "alternatives for single and two family houses..." to mean that we can consider a pervious surface such as crushed stone if approved by Building Commissioner and City Engineer?

Requiring impervious surfaces in all cases is in conflict with stormwater management guidelines. So my preference would be that we allow crushed stone as an alternative for single and two family houses, as long as it is clean, compacted, constructed with a proper base material, relatively level, doesn't get tracked into the street, etc.

I do agree that for any uses other than single and two family houses, some sort of paved material should be required.

What are your thoughts?

Thomas DiPersio, Jr., PE, PLS
City Engineer
Department of Public Works
135 Neil Street
Marlborough, MA 01752
Phone:(508)624-6910x33200
tdipersio@marlborough-ma.gov



From: Jeffrey Cooke <jcooke@marlborough-ma.gov>
Sent: Wednesday, July 8, 2020 5:01 PM
To: bcoullard@gmail.com; Susan Brown <sbrown@marlborough-ma.gov>
Cc: Priscilla Ryder <pryder@marlborough-ma.gov>; Thomas DiPersio <tdipersio@marlborough-ma.gov>; Timothy Collins <tcollins@marlborough-ma.gov>; Patrick Dahlgren <pdahlgren@marlborough-ma.gov>
Subject: RE: Conservation - Driveway replacement at 489 Stevens St

Mr. Coullard and Susan

The following sections of General Code may apply

The expansion of driveway must be approved,

I have attached the driveway checklist that is to be completed by the applicant.

In this case "site plan approval" is the City's Engineering dept.

650-48B. 1 Application of parking requirements.

(1)

Approvals and permits.

(a)

Site plan approval. No driveways, curb cuts or parking areas (whether such parking areas are required or not) shall be created, graded or constructed of any material, through expansion or otherwise, without receiving prior site plan approval.

650-48 **D.**

Construction of parking and loading areas.

(1)

Paving type. All parking spaces, loading bays and maneuvering aisles shall have a durable, dustless, all-weather surface suitable for year-round use and acceptable to the City Engineer and the Building Commissioner, such as bituminous concrete or cement concrete.

650-49 B **(4)** Paving material.

(a)

Within street. All driveway openings shall be paved with a minimum of three inches of bituminous concrete between the traveled way and the side line of the street. If the area between the traveled way and the side line of the street includes a cement concrete sidewalk, the new driveway apron shall also be cement concrete for at least the width of the sidewalk. The cost of this work shall be borne by the owner of the driveway.

(b)
Outside street. All driveways shall have a durable, dustless, all-weather surface suitable for year-round use, such as bituminous concrete or cement concrete or pavers or **other approved impervious material**. Driveways to commercial, industrial and multifamily residential units shall in all cases be paved. Alternatives for single- and two-family houses must be approved by the Building Commissioner and City Engineer.

[Amended 10-6-2014 by Ord. No. 14-1005921A]

From: Susan Brown <sbrown@marlborough-ma.gov>
Sent: Wednesday, July 8, 2020 3:00 PM
To: Jeffrey Cooke <jcooke@marlborough-ma.gov>; Patrick Dahlgren <pdahlgren@marlborough-ma.gov>
Cc: Priscilla Ryder <pryder@marlborough-ma.gov>
Subject: Conservation - Driveway replacement at 489 Stevens St

The below e-mail is from Brent Coullard of 489 Stevens St. He is filing with Conservation with an RDA. His question to Building is the crushed stones he will like to add (see drawing) to park his RV. As long as it is imperiable, Priscilla has no problem with that, I will check with her on that again. Can you give this person an e-mail back about the RV parking.
Susan

Susan Brown - Administrative Assistant
Conservation Commission, Zoning Board of Appeals, Site Plan Review Committee
Marlborough City Hall
140 Main St.
Marlborough, MA 01752
Tel. 508-460-3768
Sbrown@marlborough-ma.gov

From: Brent Coullard <>
Sent: Wednesday, July 8, 2020 2:45 PM
To: Priscilla Ryder <pryder@marlborough-ma.gov>; Susan Brown <sbrown@marlborough-ma.gov>
Subject: Re: Driveway replacement at 489 Stevens St

Hi Susan,
thank you for speaking with me today about my driveway replacement project. Attached are an updated Request for Determination form and a map indicating the driveway and new crushed stone parking pad.

I added the July 23 Conservation Commission meeting to my calendar. Do you still start at 7pm?

Please pass this info along to the Building dept as discussed. I will follow up with them separately to see if they have any questions or concerns.

thanks!

-Brent

--

Brent Coullard
489 Stevens St, Marlborough, MA
(978) 808-2171

David W. Burke
Wetlands Resource Specialist
16 Coburn Rd
Berlin MA
01503

July 10, 2020

The Jillson Company
Attn Kevin O’Leary, PE
32 Freemont St
Needham Heights
MA 02494

Reference: #309 & #315 Stevens St, Marlborough Wetlands Delineation.

Dear Mr. O’Leary:

At your request, I visited the above referenced properties several times in snow-free November 2019 to assess the property as it relates to the MA Wetlands Protection Act, and or The Rivers Protection Act and its pursuant Regulations 310 CMR 10:00. I viewed the subject properties in accordance with the aforementioned Regulations and flagged the Resource Area boundaries in accordance with the **DEP Handbook on Delineating Bordering Vegetated Wetlands**.

#315 Stevens St. is a vacant, wooded, building lot containing 64,000 sq ft (1.5 acres). The property is located immediately east of Marlborough Middle School on the east side of Stevens St.

Approximately 33% of the property is Buffer Zone to “Wetland”. A Bordering Vegetated Wetlands complex located on the adjacent, vacant, wooded lot (#309 Steven St.) bordering on Mowry Brook; we flagged the north side of this wetlands complex. The wetlands are red maple, alder, blueberry and sweet-pepperbush scrub-shrub type.

Wetland Resource Areas present consist of: Bordering Vegetated Wetlands, possible Land Under Water Body and Inland Bank. According to FEMA on-line mapping (National Flood Hazard Layer) the site contains flood Zone X (“Area of Minimal Flood Hazard”).

In this case since the BVW clearly supersedes the Bank I did not flag MAHWL or Inland Bank as we are led to presume per USGS mapping the Mowry brook in that section is intermittent. Wetlands as shown on attached survey plan are roughly consistent with GIS mapping and Maps-online etc.

I did delineate the northern boundary of the BVW from west to east using blue surveyors’ tape #0-#32.

2.

I did test for and encounter hydric soils along the southern edge of the Bordering Vegetated Wetlands (BVW).

At Flag #3 soils can be described as follows: Upland 0-10" 10YR 3/3 A Horizon or topsoil overlaying a B Layer with a matrix of 10YR 4/5 indicating non hydric conditions.

On the wetlands (South) side of the line just slightly downgradient we observed a 2-12" thick A Layer of blackish topsoil interfacing with a B Layer with a 2.5Y 4/2Matrix, olive brown in coloration; the matrix contained 10YR2/2 Mottling and oxidized rhizospheres. This distinction in soils is characteristically similar along the wetland boundary line given the relatively flat conditions on the site.

In late February with snow free conditions we did conduct a site walk and examined all flagging, soils and evidence of hydrology in detail. Among others Priscilla Ryder, Marlborough Conservation Agent and a representative of your offices were in attendance

This report is supporting an RDA requested by your offices and is meant for submission to the **Marlborough Conservation Commission** and/or the **MA DEP**.

I trust this is sufficient for your current needs at this property. Please contact me if I can be of further assistance.

Sincerely,

Dave Burke

David W. Burke

Wetlands Resource Specialist

Jillson Co., Inc.

32 Fremont St.
 Needham Heights, MA 02494
 Tel (781) 400-5946
 koleary@jillsoncompany.com

LETTER OF TRANSMITTAL

TO: Priscilla Ryder
Marlborough Conservation
Commission
140 Main Street
Marlborough, MA 01752

CC: Mass DEP w/enc. (via e-mail)
Charles Company, LLC. (via e-mail)

DATE: 6/30/20 JOB #: 2945
 RE: RDA #315 Stevens Street

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Shop Drawings Prints Plans Samples Specifications
 Copy of Letter Change order _____

NO.	DATE	REV.	COPIES	DESCRIPTION
1.	6/30/20		8	WPA Form 1 (4 pgs, signed).
2.	6/30/20		8	"Marlborough Quad (1983)" (8.5"x11", USGS).
3.	6/29/20		8	"309 Stevens Street RFD Wetlands Plot Plan" (11"x17").
4.	6/29/20		8	"Stevens Street Wetlands" (8.5"x11", Marlborough GIS).
5.	6/8/20	6/25/20	8	"#315 Stevens Street Site Development Plan" (24"x36", signed & stamped).

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints

REMARKS: If you have any comments or questions, please contact me. Also please confirm the hearing for this filing will be July 23rd. Thank you.

SIGNED: Kevin O'Leary, PE

If enclosures are not as noted, kindly notify us at once.

32 Fremont Street, Needham, Mass. 02494



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A. General Information

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1. Applicant:

The Charles Company, LLC.

Name

cbbuild@gmail.com

E-Mail Address

131 Black Bear Drive, Suite 1912

Mailing Address

Waltham

City/Town

MA

State

02451

Zip Code

(781)-760-7727

Phone Number

Fax Number (if applicable)

2. Representative (if any):

The Jillson Company, Inc.

Firm

Kevin O'Leary, PE

Contact Name

koleary@jillsoncompany.com

E-Mail Address

32 Fremont Street

Mailing Address

Needham Heights

City/Town

MA

State

02494

Zip Code

(781)-400-5946

Phone Number

Fax Number (if applicable)

B. Determinations

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Marlborough

Name of Municipality

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

N/A



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C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

<u>315 Stevens Street</u>	<u>Marlborough</u>
Street Address	City/Town
<u>44</u>	<u>148</u>
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

Wooded vacant building lot (1.47 acres or 64,017 SF). Approximately 0.4 acres or 17,170 SF will be developed for new house construction. A Bordering Vegetated Wetland (BVW) is contained on an adjacent, vacant building lot known as #309 Stevens St. The BVW's 100' Buffer Zone extends onto portions of #315 Stevens St.

c. Plan and/or Map Reference(s):

<u>"315 Stevens Street Site Development Plan" (Last Revised 6/25/20)</u>	<u>6/8/20</u>
Title	Date
<u> </u>	<u> </u>
Title	Date
<u> </u>	<u> </u>
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

All Site development work to accommodate new house construction is beyond the 100' Buffer Zone to the above described BVW. All site work will be contained & encircled with Erosion Control Barriers & a stormwater system will collect & dispose of post-development runoff water into a subsurface recharge basin. All disturbed & newly graded areas will be loamed & seeded. See the enclosed site plan listed above for additional information.



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C. Project Description (cont.)

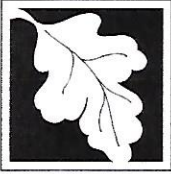
b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

No construction site work is proposed within a jurisdictional area. No impact to any Wetland Resource Area or Buffer Zone will occur.

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:

Rebecca L. Chaousis/Amy Aldrich-Goebel

Name

283 Bolton Street/P.O. Box 150

Mailing Address

Marlborough/Same

City/Town

MA/Same

State

01752/Same

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

6/30/20

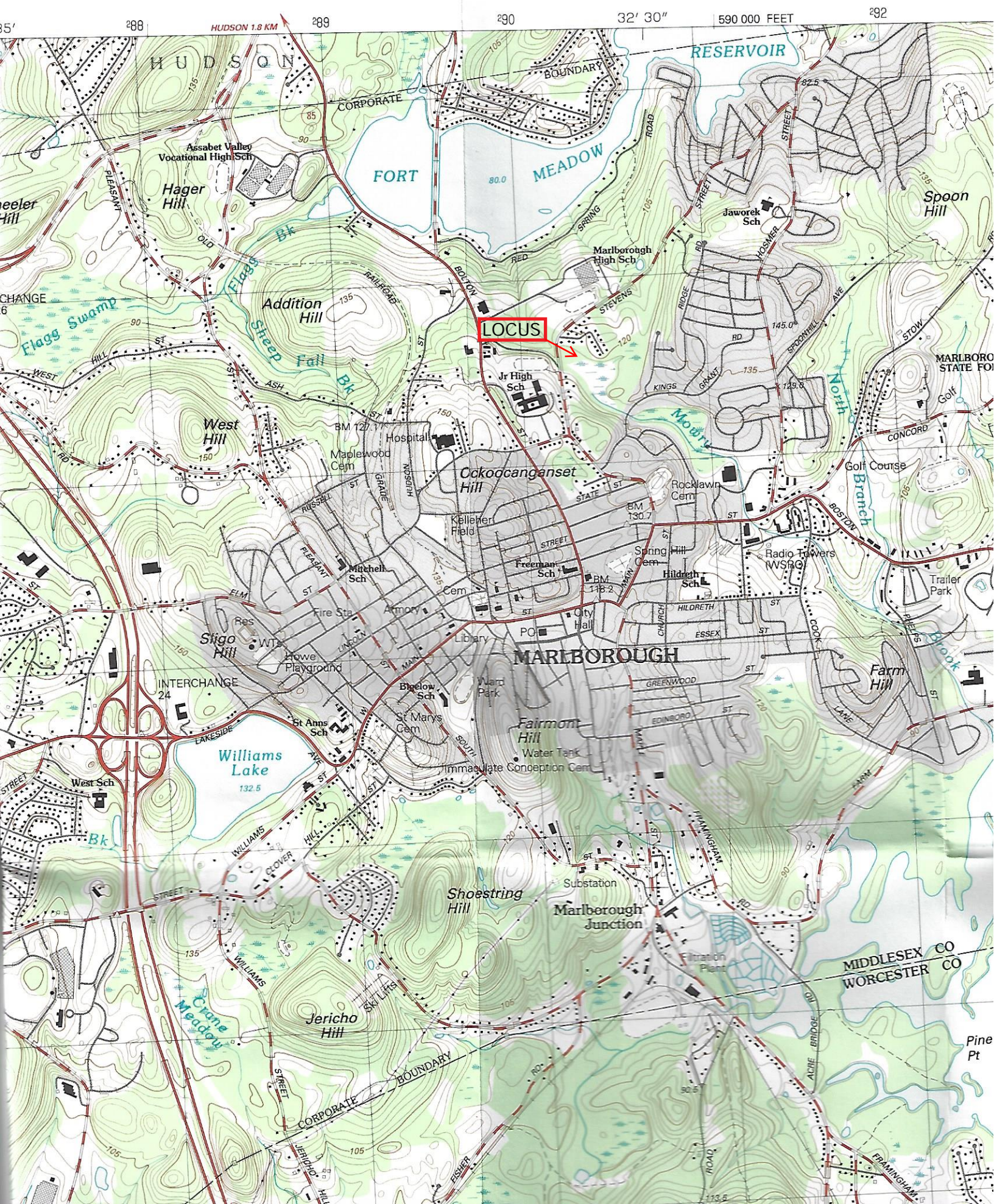
Signature of Representative (if any)

Date

6/30/20

Marlborough Quad (1983)

7.5 X 15 MINU



309 STEVENS STREET
RFD WETLANDS PLOT PLAN
SCALE: 1"=30' 6/29/20
THE JILLSON COMPANY, INC.
KOLEARY@JILLSONCOMPANY.COM

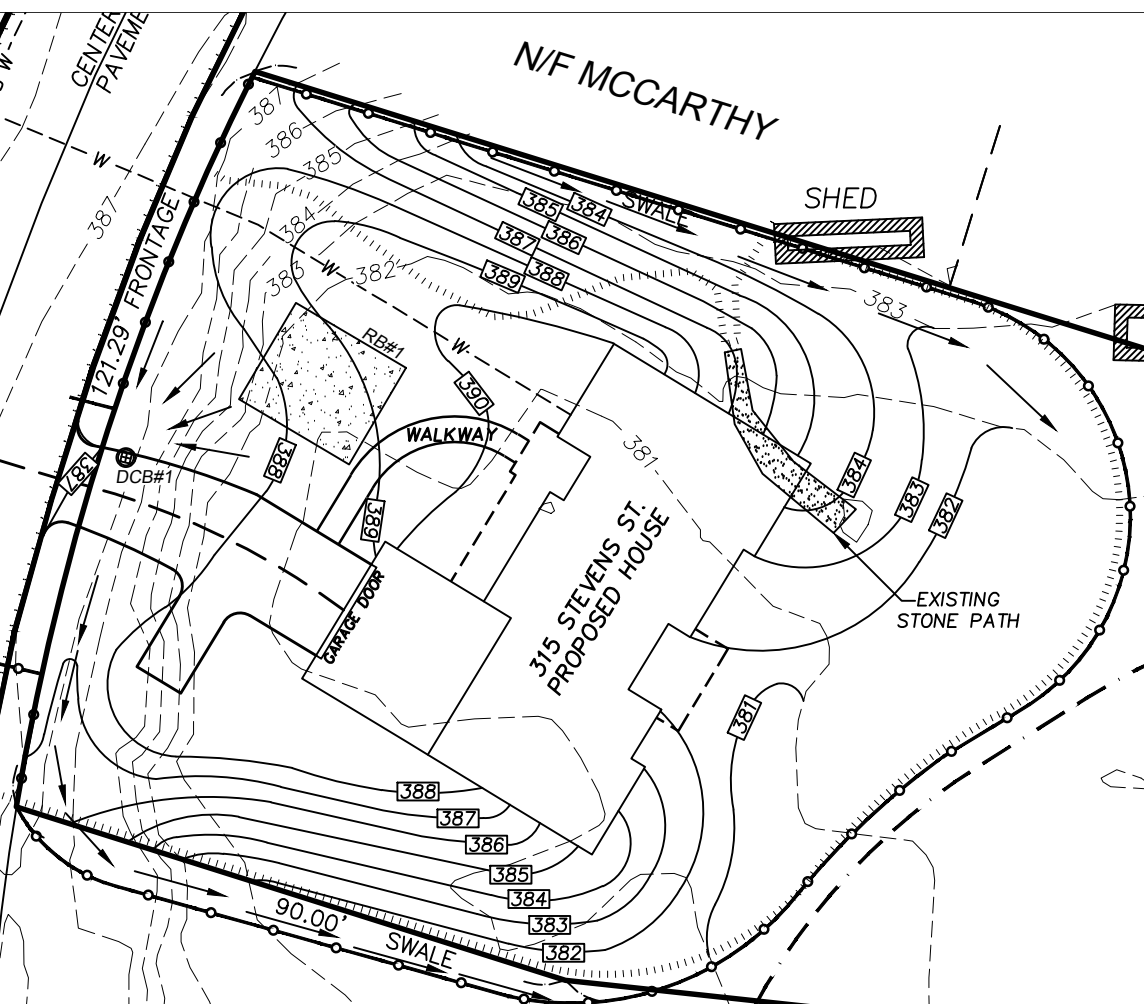
N/F BSL
MARLBOROUGH
DEVELOPMENT
LLC

N/F MCCARTHY

N/F JOHNSON

N/F CAVICCHI

STEVENS STREET
(PUBLIC ~ VARIABLE WIDTH)



LOT AREA
64,017± SF

UP 29

UP 30

100' BUFFER ZONE

255.35' TO LOT CORNER

#309 STEVENS ST.

20' BUFFER ZONE

THE DELINEATED BVW SHOWN HEREON SHALL
SERVE AS THE BOUNDARY OF THE
MARLBOROUGH FLOODPLAIN AND WETLAND
PROTECTION DISTRICT

215.31'

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WF 11

WF 12

WF 13

WF 14

WF 15

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WF 17

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CENTER
PAVEMENT

RB#1

WALKWAY

GARAGE DOOR

315 STEVENS ST
PROPOSED HOUSE

SHED

SHED

EXISTING
STONE PATH

DCB#1

121.29' FRONTAGE

330.50' TO LOT CORNER

90.00' SWALE

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Stevens Street Wetlands

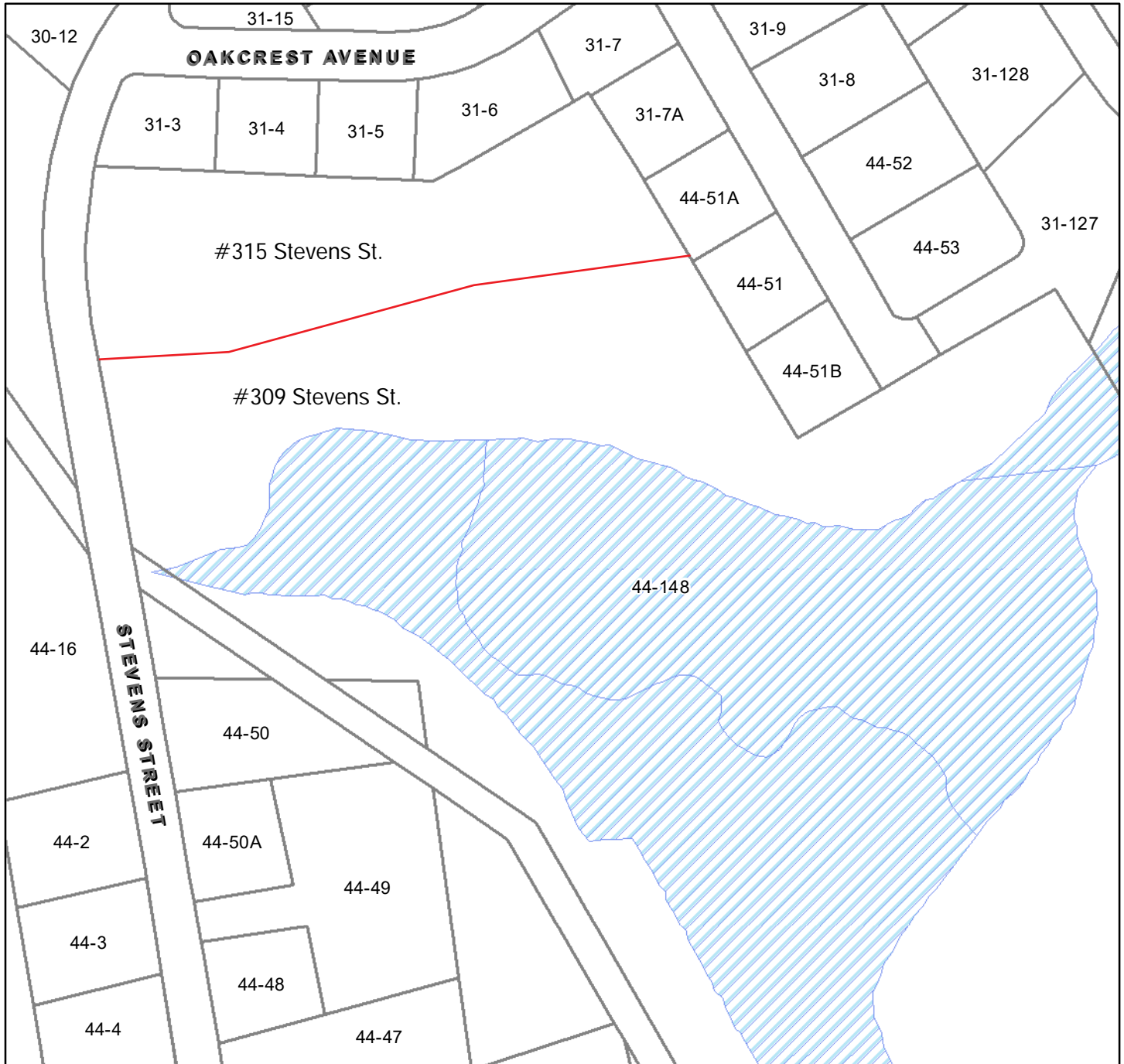
Marlborough, MA



1 inch = 150 Feet

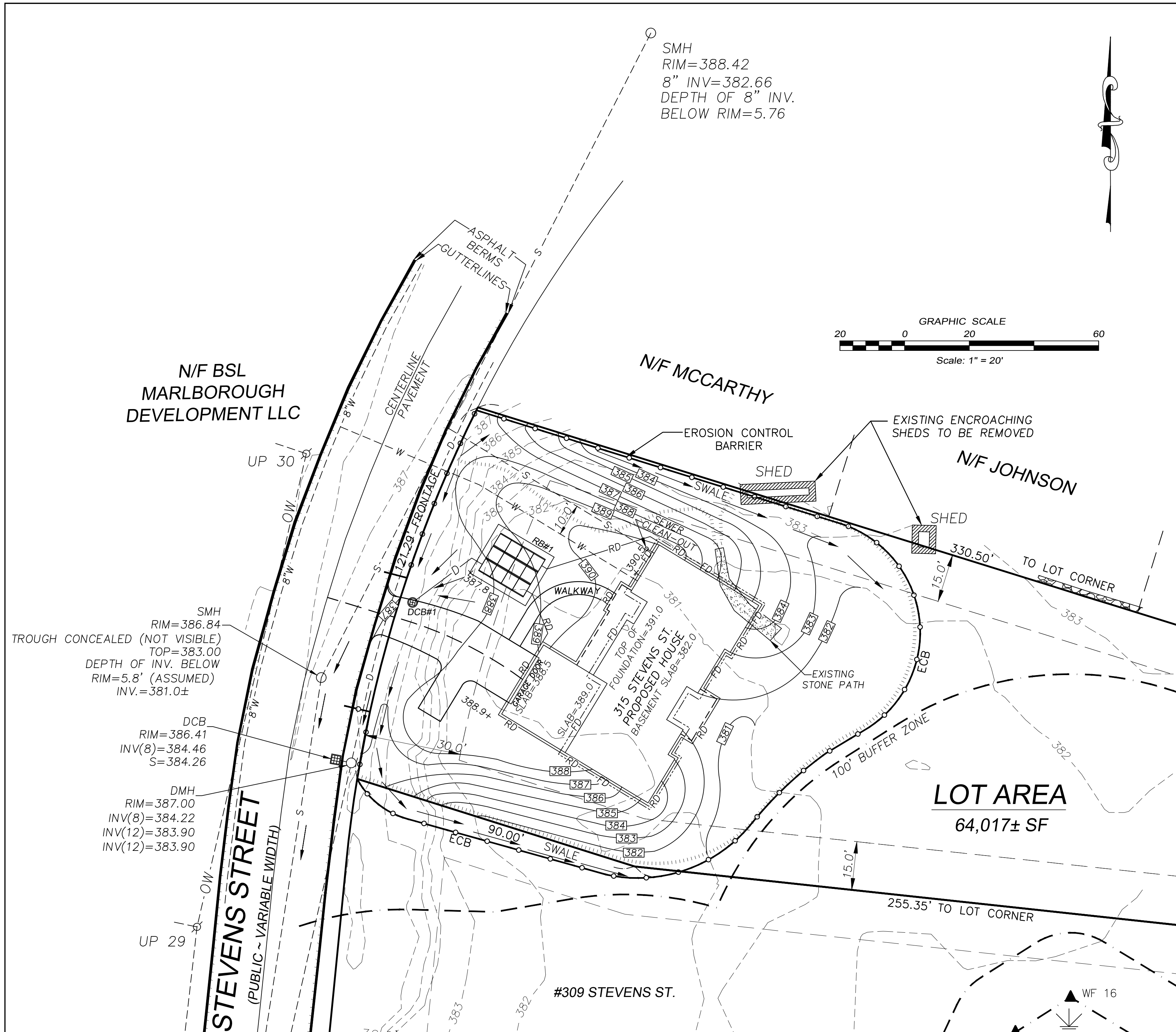


June 29, 2020

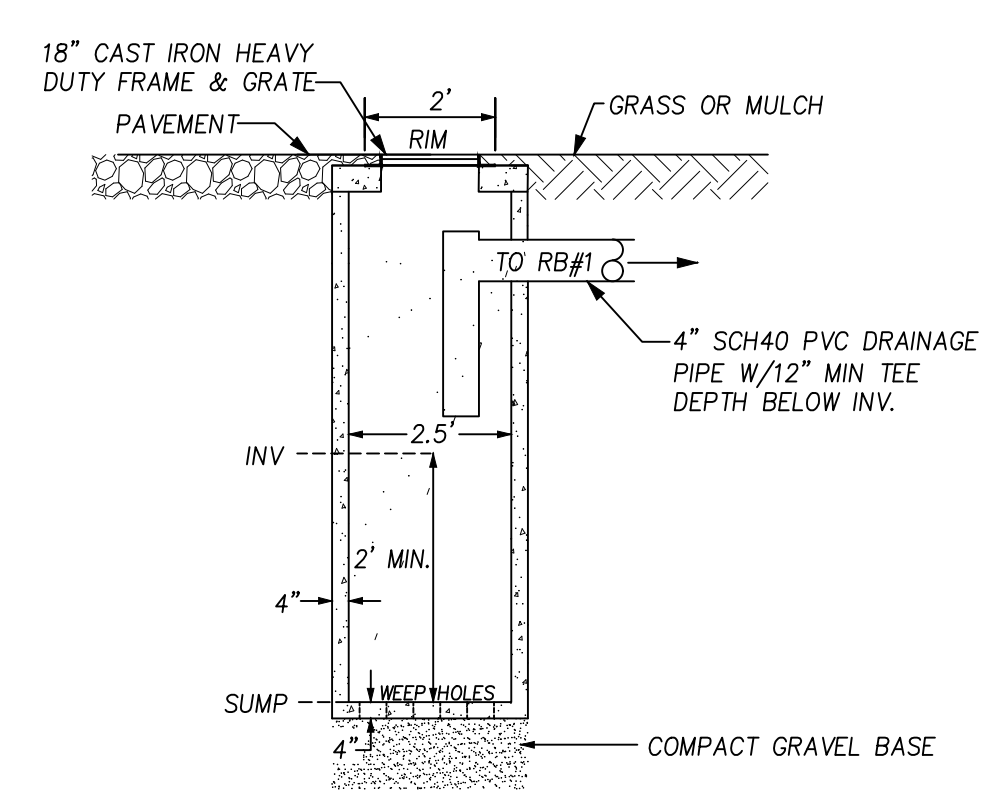


	CAI Town Line		Other Legal - No Ortho
	Labels - No Ortho		DEP WETLAND
	Street Names		
	Parcel Lines - No Ortho		

Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.



30" (ID) MINI-CATCH BASIN
(NOT TO SCALE)



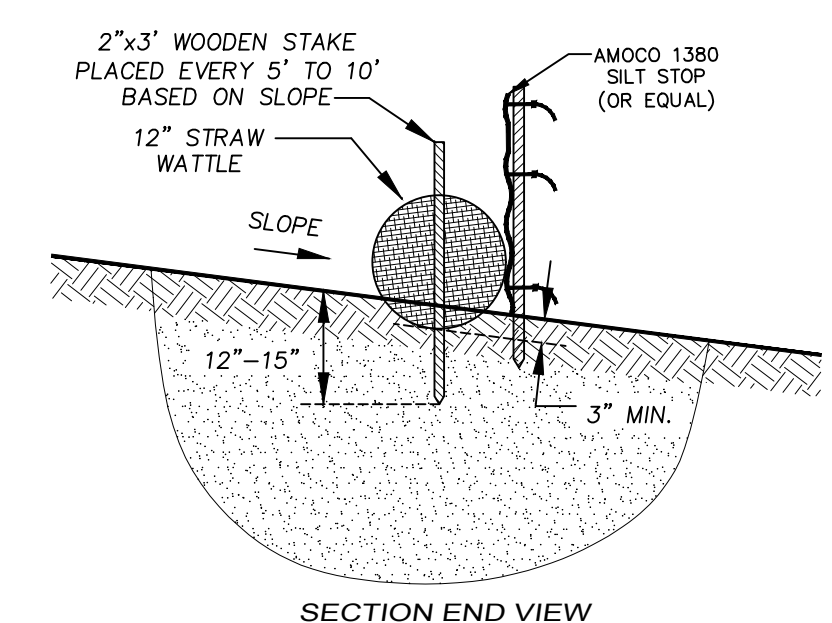
SCHEDULE OF ELEVATIONS

DESCRIPTION	DCB#1
RIM	387.0±
4" INVERT OUT	385.5±
SUMP	383.5±

DRAINAGE MANHOLE NOTES

- 30" MINI MANHOLE BY E.F. SHEA CONCRETE PRODUCTS, INC. OF WILMINGTON, MA, OR EQUIVALENT.
- REFER TO MANUFACTURER FOR RECOMMENDED INSTALLATION GUIDELINES.
- THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER PRIOR TO EXCAVATION AND INSTALLATION OF THE PROPOSED CATCH BASIN. THE DESIGN ENGINEER SHALL INSPECT THE EXCAVATION FOR THE CATCH BASIN.

EROSION CONTROL BARRIER
STRAW WATTLE OR EQUIVALENT
(NOT TO SCALE)



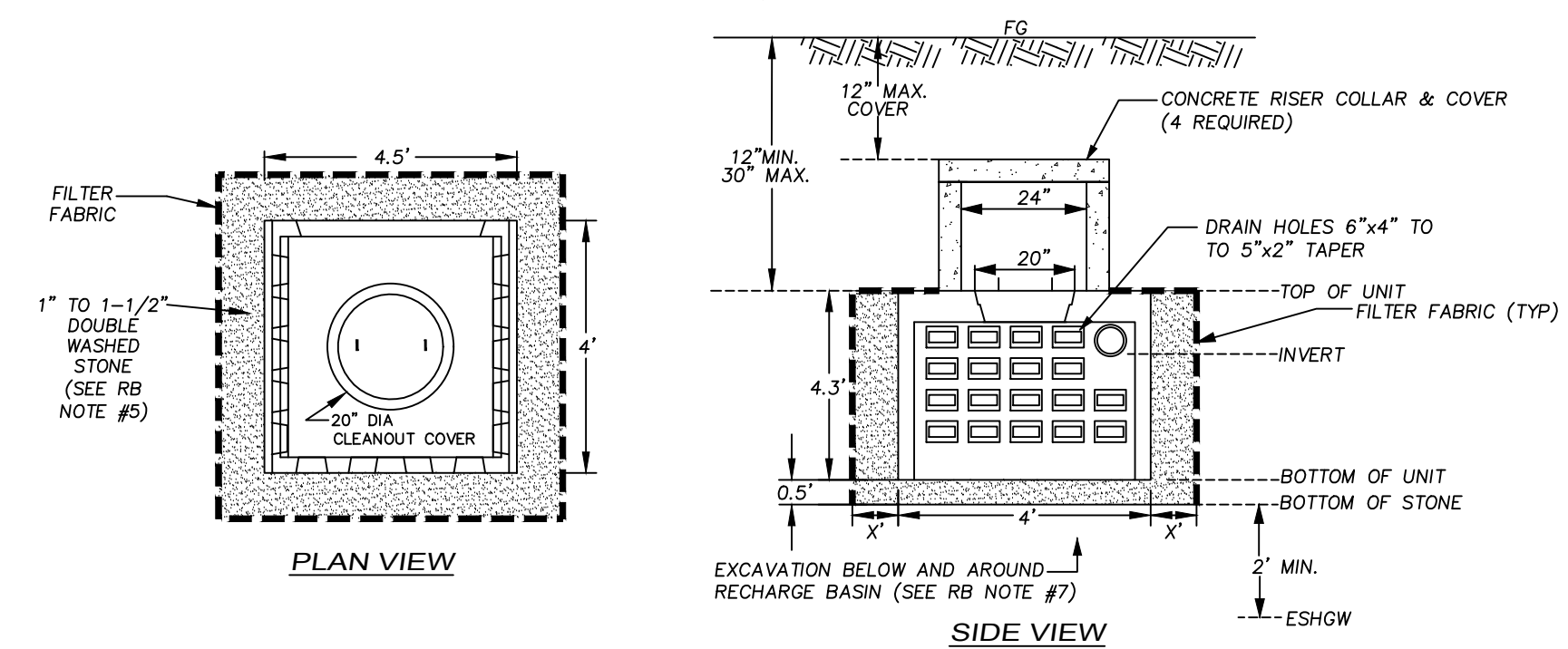
STRAW WATTLE NOTES

- THE EROSION CONTROL BARRIER SHALL BE USED TO ENCLOSE STOCKPILE MATERIALS.
- THE EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.
- A SMALL AMOUNT OF BARRIER SHALL BE STOCKPILED ON-SITE FOR EMERGENCY USE.

NOTES

- THIS PLAN SHALL NOT BE RECORDED OR USED TO ESTABLISH PROPERTY LINES.
- FOR ADDITIONAL PROPERTY LINE INFORMATION REFER TO THE DEED IN BOOK 9742 PAGE 362 RECORDED AT THE MIDDLESEX REGISTRY OF DEEDS.
- THIS PLAN REFERS TO MARLBOROUGH ASSESSOR'S MAP 44, LOT 148.
- ZONING CLASSIFICATION: RESIDENCE A2.
- ALL ELEVATIONS SHOWN HEREON REFER TO N.A.V.D. OF 1988.
- THE PLANIMETRIC SITE FEATURES SHOWN HEREON ARE BASED ON FIELD SURVEY WORK PERFORMED BY THE JILLSON COMPANY IN NOVEMBER 2019 & JANUARY 2020.
- ANY EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY THE CITY AND FIELD SKETCHES AND SHALL BE CONSIDERED APPROXIMATE. FURTHERMORE, THE TOTAL EXTENT OF THE UNDERGROUND UTILITIES IS UNKNOWN.
- THE PROJECT SITE IS LOCATED IN 'ZONE X - AREA OF MINIMAL FLOOD HAZARD' AS SHOWN ON FIRM FLOOD MAP NUMBER 25017C0481F, EFFECTIVE ON 7/7/14.
- ALL EXISTING A & B SOIL HORIZONS AND ALL OTHER DELETERIOUS MATERIAL SHALL BE EXCAVATED & REMOVED BELOW ALL AREAS WHERE GRADES ARE BEING RAISED. IMPORTED FILL MATERIAL SHALL COMPLY WITH NOTE #10 BELOW.
- IMPORTED FILL MATERIAL USED TO RAISE GRADES FOR THE FRONT, SIDE & REAR YARD AREAS SHALL BE LOAMY SAND (70%-85% SAND & NOT MORE THAN 15% CLAY). LOAM USED OVER ALL DISTURBED AREAS SHALL CONTAIN APPROXIMATELY 70% SAND.
- ALL UTILITY LOCATIONS SHALL BE CONFIRMED BY PROJECT PROPONENT PRIOR TO SITE WORK BEING PERFORMED.
- ALL UTILITY INSTALLATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MARLBOROUGH DPW REGULATIONS & REQUIREMENTS.

CONCRETE CHAMBERS
(NOT TO SCALE)

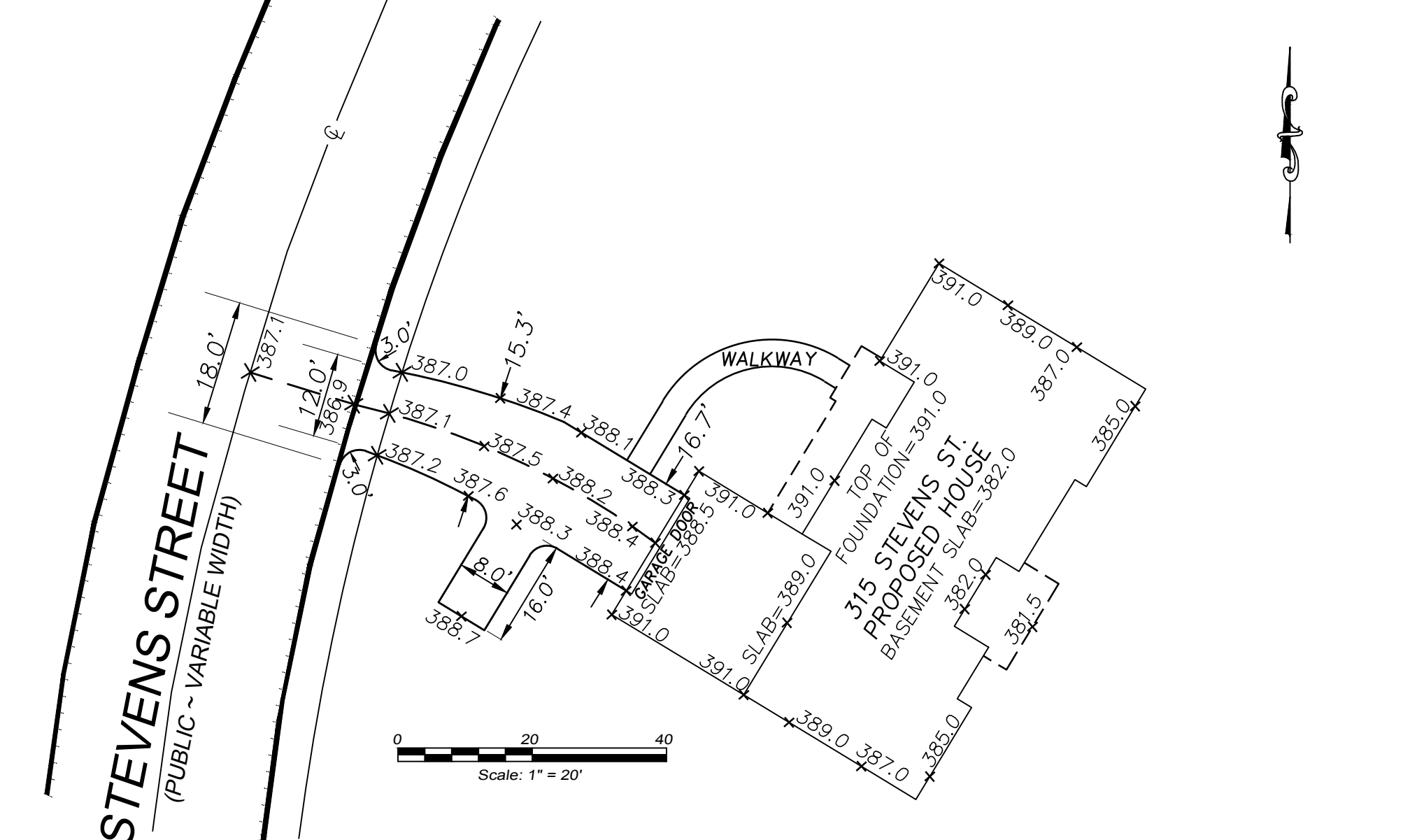
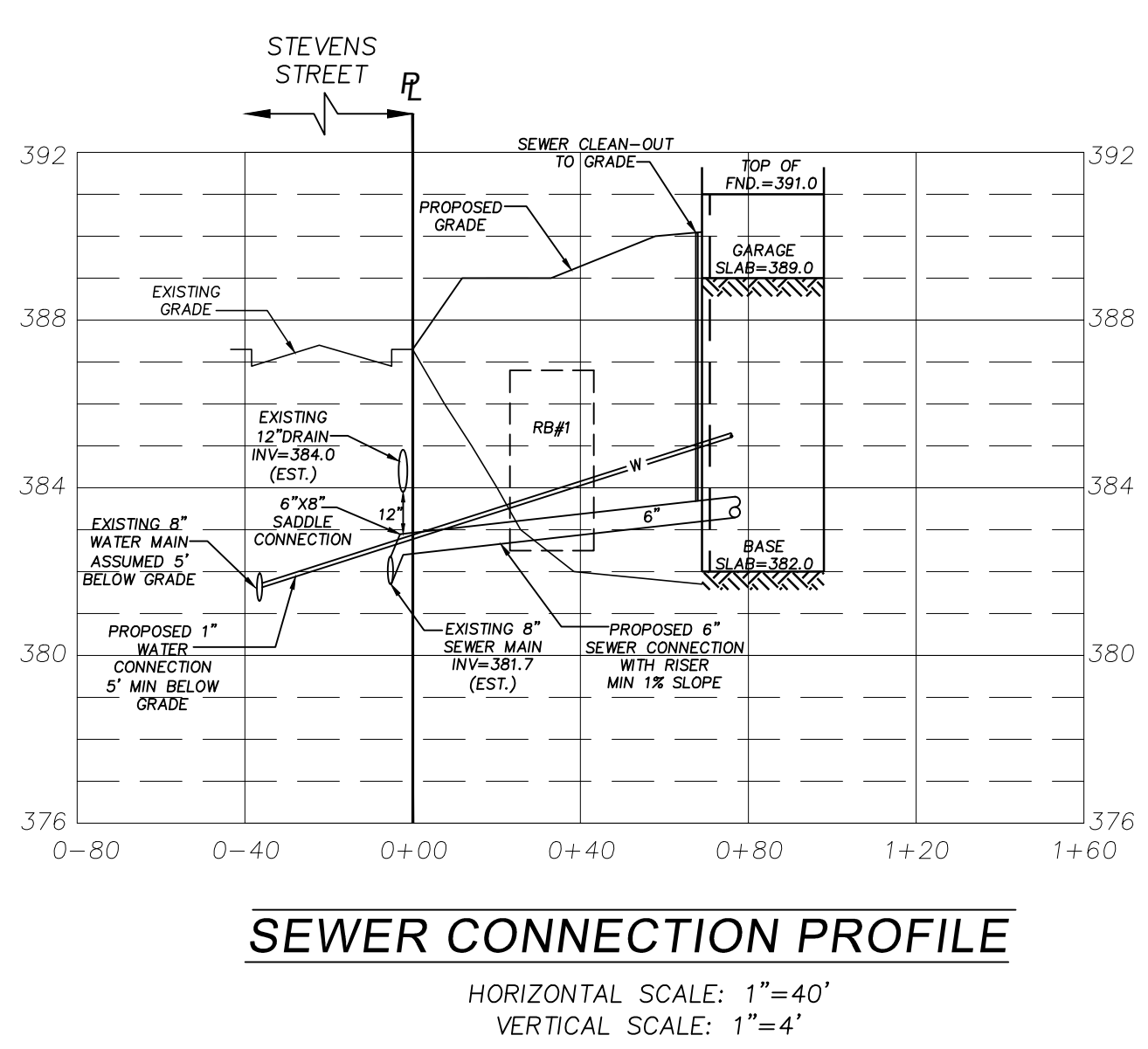


SCHEDULE OF ELEVATIONS & DIMENSIONS

DESCRIPTION	RB#1
# OF UNITS	12
OVERALL FOOTPRINT (WxL)	17.5'±x20.0'
STONE AROUND (X)	2.0'
FINISHED GRADE (MIN.)	387.8±
TOP OF CHAMBER	386.8±
4" INVERT IN	385.8± (x3)
BOTTOM OF CHAMBER	382.5±
BOTTOM OF STONE	381.0±
ESHGW	379.0±

RECHARGE BASIN NOTES

- THE CONCRETE CHAMBERS ARE MANUFACTURED BY E.F. SHEA CONCRETE OF WILMINGTON, MA (978-658-2645) OR EQUIVALENT.
- REFER TO MANUFACTURER(S) FOR RECOMMENDED INSTALLATION GUIDELINES.
- ALL RECHARGE BASINS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- THE SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT THE DRAINAGE INSTALLATION CONFORMS WITH ALL APPROVALS.
- ALL STONE AGGREGATE USED IN CONSTRUCTION OF THE RECHARGE BASIN SHALL BE DOUBLE WASHED.
- THE DRAINAGE SYSTEM(S) SHALL BE INSTALLED IN IMPORTED, WELL DRAINING, FILL SOIL MATERIALS SATISFYING NOTES 9 & 10 ABOVE & RECHARGE BASIN NOTE 7 BELOW.
- RB#1 SHALL BE INSTALLED IN CLEAN, WELL DRAINED SAND & GRAVEL FREE OF ANY ORGANICS & EXCESSIVE FINES (SEE NOTES 9 & 10 ABOVE). ALL DELETERIOUS MATERIAL BELOW OR AROUND THE DRAINAGE STRUCTURES SHALL BE REMOVED. THE EXCAVATION BELOW THE RECHARGE BASIN SHALL EXTEND DOWN TO APPROX. ELEV.=381.5.



REVISIONS

REV	DATE	DESCRIPTION
1	06/25/20	ECB ADDED

Scott Parmenter

From: Susan Brown
Sent: Tuesday, July 21, 2020 1:03 PM
To: irishclanc; Priscilla Ryder; Groundsmgmt; karinmpaquin; wfdunbar; dhw6599; afwhiteexcav; dcima1971
Subject: Conservation Letter from abutter for our July 23,2020 meeting

Below is an email from an abutter for our 315 Sudbury St. hearing on Thursday night. Ed, he tried sending it as an attachment, but I could not open it. So, I told him to type it within the body of the his email. So he did. Please read it into the record at Thursday night's meeting.

Susan Brown
Conservation
sbrown@marlborough-ma.gov

From: parts583@verizon.net <parts583@verizon.net>
Sent: Tuesday, July 21, 2020 12:49 PM
To: Susan Brown <sbrown@marlborough-ma.gov>
Subject: Conservation Letter July 23,2020 meeting

Dear Conservation Commission ,

We are writing in reference to the upcoming Public Meeting Dated for July 23,2020 at 7:15 in regards to 315 Stevens street -The Charles Company . The proposed construction of new housing on a vacant lot . The Bordering Vegetated Wetland (BVW) is contained on an adjacent lot and the (BVW) 100ft. Buffer zone extends onto a portion of 315 Stevens Street . We Roland and Kathleen Lachapelle are concerned about several matters and therefore we Oppose the Request for Determination Applicability.

Our concerns are as follows: The Water Table being disrupted due to filling in and cutting of the trees that are at present holding and helping to control the water of the wetlands . This area is Wetlands and at anytime the level of Water is a concern . By disruption of the Table , cutting trees and backfilling We have a concern of water seeping into the houses causing problems to the integrity of houses, As well as once trees are cut down the Natural absorption of any water is now compromised , and troublesome. We feel that the 5 or 6 feet of fill is not the answers This area is well known to be called Duck Harbor because of the Wetlands .Feeling the Quality of living on such a Natural Resource will be taken away once trees and disruption of the water table is compromised in this matter .

We also are concerned with the Traffic flow that is already a difficult and unsafe situation . With the new parking lot across from Oakcrest Ave. that is very often used for all parking not just the Handicap parking it is supposed to be , causing the Quality of Life and Safety to the neighborhood dangerous and unpredictable. Often times I myself have just made it across the road when I was trying to pull out of the road due to fast moving , cars from several directions etc. many close calls of accidents potential . Right now we are experiencing extreme heat, and along with that we may not be thinking of winter storms . What happens to the snow removal process and high snow banks , we already struggle with , with yet another obstruction of view trying to access Stevens Street from Oakcrest Ave . Hazards Hazards Hazzards . It is a very dry period of weather we are having at this moment but this is not going to always be the case as I have witnessed for many years living here . Often times you see the water ,wetlands in its full glory .So the issues that come with seasonal changes and now the potential of messing with the natural water table this is very concerning to us and many of our neighbors.

Our Natural Resources of the Wildlife we presently see daily will be disturbed and disrupted . We understand this land to have some beautiful wildlife and to have that taken away is very concerning .

Thank you for taking the time to read / listen to our concerns for the Public Safety , Quality of Life and disruptions of the possible harm to our homes.

Sincerely ;
Roland R. Lachapelle
Kathleen M. Lachapelle
73 Oakcrest Ave.
Marlboro, Ma

Scott Parmenter

From: Aura Gauthier <aura@auragauthier.com>
Sent: Wednesday, July 22, 2020 10:08 PM
To: Susan Brown
Subject: Fwd: 321 Stevens St. vacant lot

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Susan,

Please see email below that I sent to both Priscilla Ryder and Ed Clancy. I realize Priscilla is out and won't be at the meeting but please make sure my concerns are voiced at the meeting. Thank you!

Begin forwarded message:

From: Aura Gauthier <aura@auragauthier.com>
Date: July 22, 2020 at 10:03:26 PM EDT
To: Conservation officer Priscilla Ryder <Pryder@marlborough-mass.gov>
Subject: **321 Stevens St. vacant lot**

Dear Priscilla,

I'm writing to you to express my concerns regarding the above project. I am also planning to attend the virtual meeting as well but wanted to make sure that you receive this email as well and present it at the meeting. I have cc'd Mr. Ed Clancy as well.

There are several concerns:

1. First and foremost the wetlands-Many of our wetlands have disappeared or have been encroached by construction. How will you protect them?
2. Trees- trees will have to be destroyed to erect the structure- trees help with erosion
How will this be handled so that we can ensure that the abutting homes will not be affected by run off-flooding
3. Where will the buffer be for the abutters? We have lots of wildlife in those woods and we have displaced so many already how will you protect them?
3. The residents of Oakcrest Ave have already been impacted by the parking lot across the street with people illegally parking in that lot that was added to the new ball field from vehicles stopping to pick up or drop off players! Oakcrest entrance is directly across from the parking lot and is a blind corner. Our quality of life, safety and quiet enjoyment has already been impacted tremendously. What will be the plan to minimize the danger?

I would have loved to see this builder donate this land to the City and it declared conservation Land. There is another portion of the land further up the road that can be responsibly developed without detriment to wildlife and abutting residents. We don't need to develop every single inch of Marlborough.

Regards,

Aura and Bob Gauthier
[65 Oakcrest Ave.](#)
Marlborough, Ma 01752

July 23, 2020

Marlborough Conservation Commission
Marlborough City Hall
140 Main St.
Marlborough, MA 01752

Re: Meadow Planting Plan & Isolated Vegetated Wetland Replication Plan (DEP # 212-1216)
339 Boston Post Road East Marlborough, MA 01752

Dear Conservation Commission:

Attached please find the Meadow Planting Plan supplemental to the Notice of Intent application for the property addressed as 339 Boston Post Rd. East Marlborough, MA. The following Planting Plan will replace Goddard Consulting's previously submitted *Isolated Vegetated Wetland Replication Plan (5/7/20)* and *Bordering Land Subject to Flooding Replication Plan (5/7/20)*. Both upland and wetland meadow habitats are declining and becoming more scarce in Massachusetts, largely as a result of the abandonment of agricultural activities throughout the commonwealth to regions of more fertile soils such as in the mid-west. The goal of this Meadow Planting Plan is to maintain and expand existing upland and wetland meadows on-site.

Existing Conditions

The ±25.7-acre site currently consists of a horse farm off of Boston Post Road (see Figure 1). An existing gravel driveway runs south leading to a single-family house and several barns associated with the boarding and care of horses. A gravel path formerly used as a horse-riding rink forms a large oval running along a large portion of the site, providing access to several sparsely vegetated horse pastures. Resource areas on-site include the Perennial Stream Broad Meadow Brook and associated Riverfront Area (RFA), Isolated Vegetated Wetland (IVW), Bordering Vegetated Wetland (BVW), and Bordering Land Subject to Flooding (BLSF) (see Figure 2).



Figure 1. An orthophoto view of the locus site.

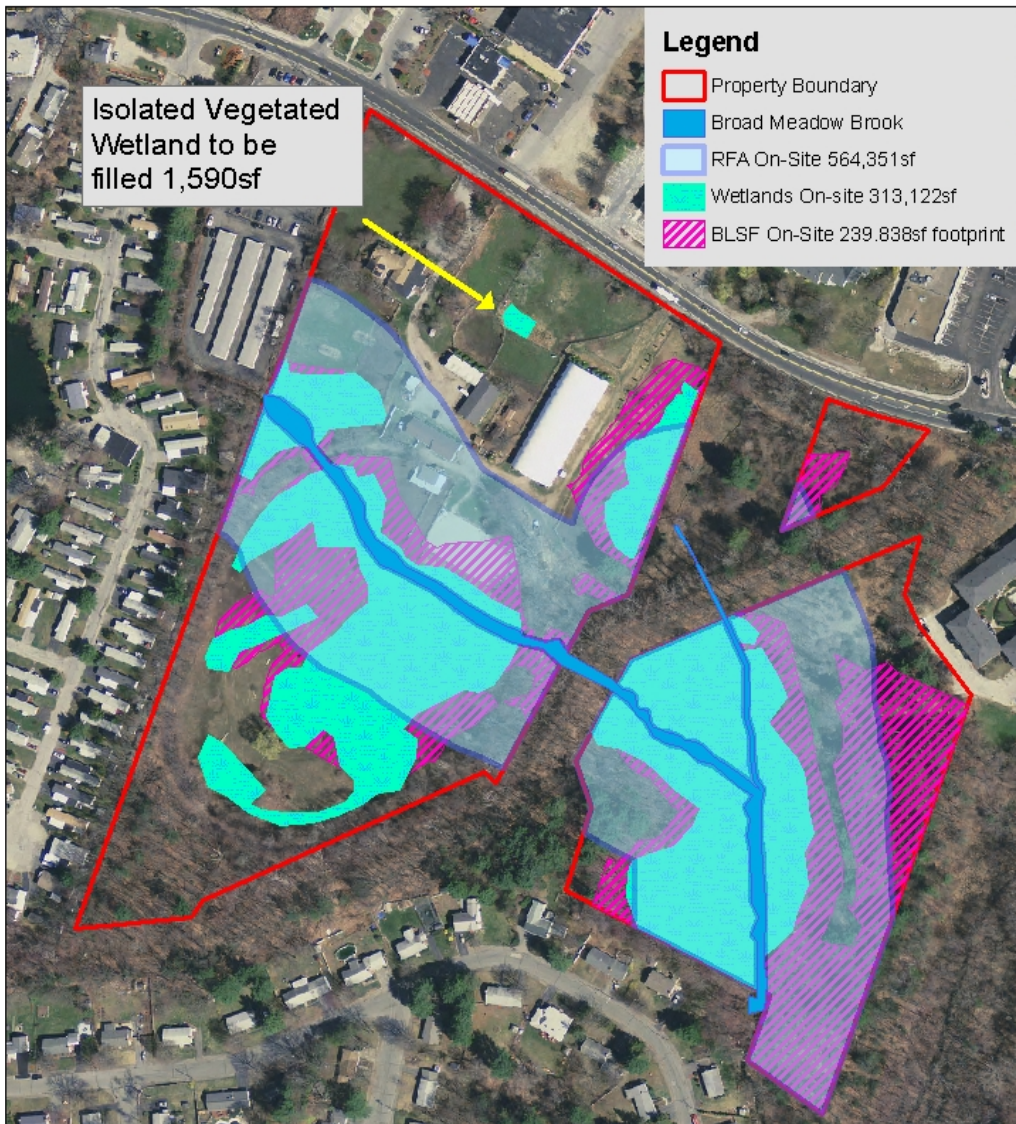


Figure 2. The existing resource areas on-site.

The project proposes the fill of $\pm 1,590$ sf of Isolated Vegetated Wetland on the northern portion of the site (see Figures 2 & 3). This IVW is located in the center of a paddock and is currently impacted by the grazing of horses (see Figure 3.). Dominant vegetation in this area currently consists of purple loosestrife, goldenrod, soft rush, and hydrophilic grasses and sedges. Saturation at ground surface can be found in the northeastern corner of the IVW, comprising approximately 5-10% of the IVW. Seasonally high ground water was found to be approximately 20" deep. Soils from the surface down to approximately 20" were categorized to be 7.5YR 2.5/1. Refusal was achieved at 20". The IVW exists within an Outstanding Resource Waters (ORW) area, and its current location facilitates horse feces to enter Broad Meadow Brook.

A goal of this Meadow Planting Plan is to replicate the IVW in a different, more productive on-site location to improve its ability to function as a wetland meadow and avoid negative impacts to the ORW. The proposed location for the IVW Replication area is shown in Figure 4. Further information regarding the seeding and management of the IVW Replication Area can be found below.



Figure 3. The Isolated Vegetated Wetland proposed to be filled. This wetland is surrounded entirely by horse pasture (5/6/20).

In addition to IVW fill, the project proposes the alteration of BLSF within the footprint of a $\pm 10,105$ sf area from elevations 269-277. Approximately $\pm 35,509$ sf of BLSF Restoration Area will be constructed at the same elevations that will be altered, as referenced in the Notice of Intent. A large portion of the BLSF area that is proposed to be impacted occurs within the footprint of degraded surfaces, including the gravel horse-riding area, roads, and manure piles.

In order to improve the buffers of existing on-site resource areas, and expand upon existing on-site meadow habitat, seeding of the BLSF areas is proposed. The proposed location for the BLSF Restoration Area is shown in Figure 4. Further information regarding the seeding and management of the BLSF Restoration Area can be found below.

Along with seeding the BLSF Restoration Area and IVW Restoration Area, meadow management protocol involving mowing is proposed in order to ensure that the proposed and existing meadow areas will be maintained as such within a large preserved open space area on-site. The locations of the meadow area to be mowed and the proposed BLSF Restoration and IVW Replication Areas will be demarcated in the field through the installation of placards as shown below (see Figure 4).

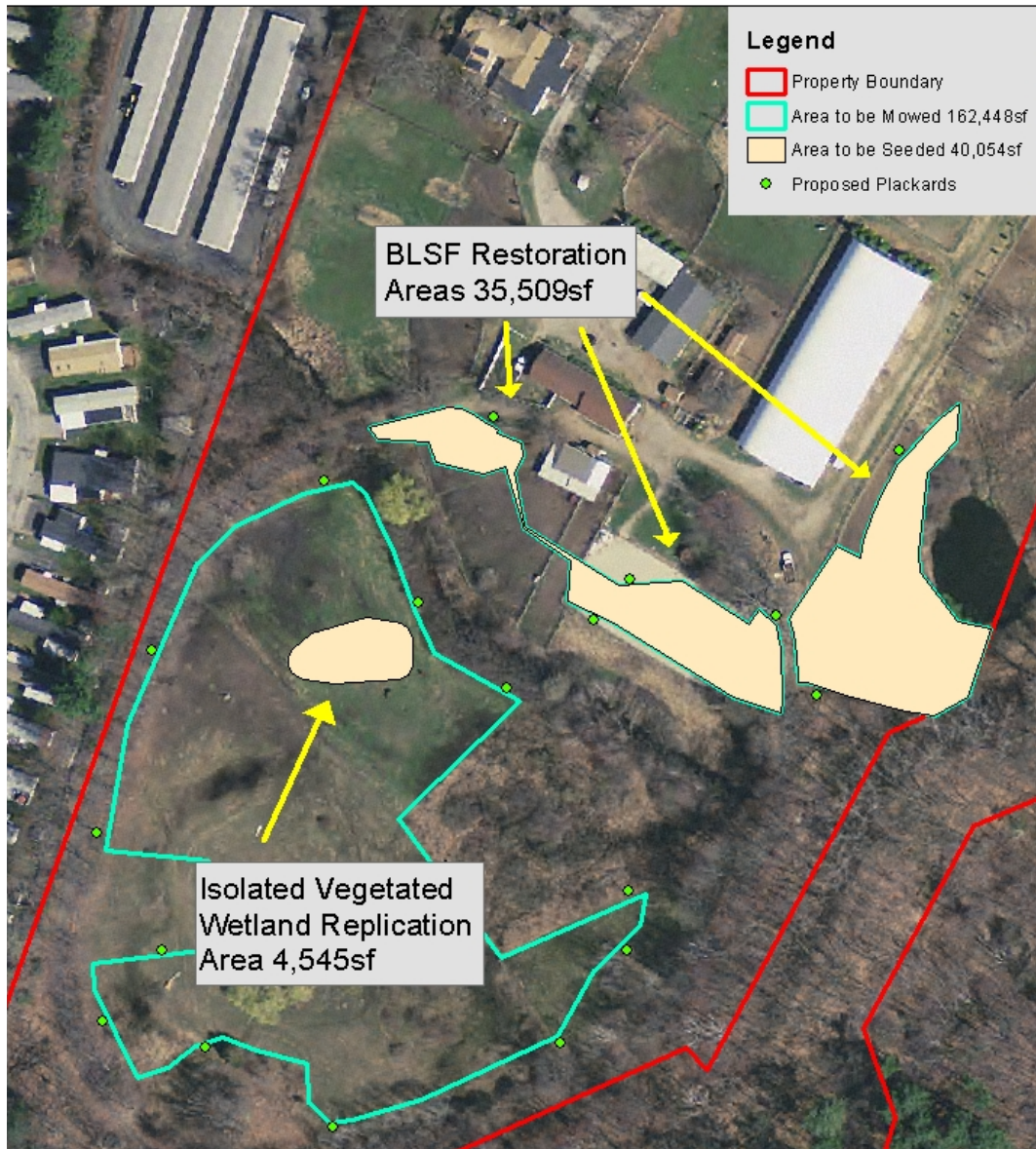


Figure 4. An orthophoto view of the proposed areas to be seeded and maintained as meadow within the open space area on-site.

As shown below, the proposed area to be mowed occurs within Bordering Vegetated Wetland (BVW), Riverfront Area (RFA), BLSF, and upland area (see Figures 5, 6 & 7).

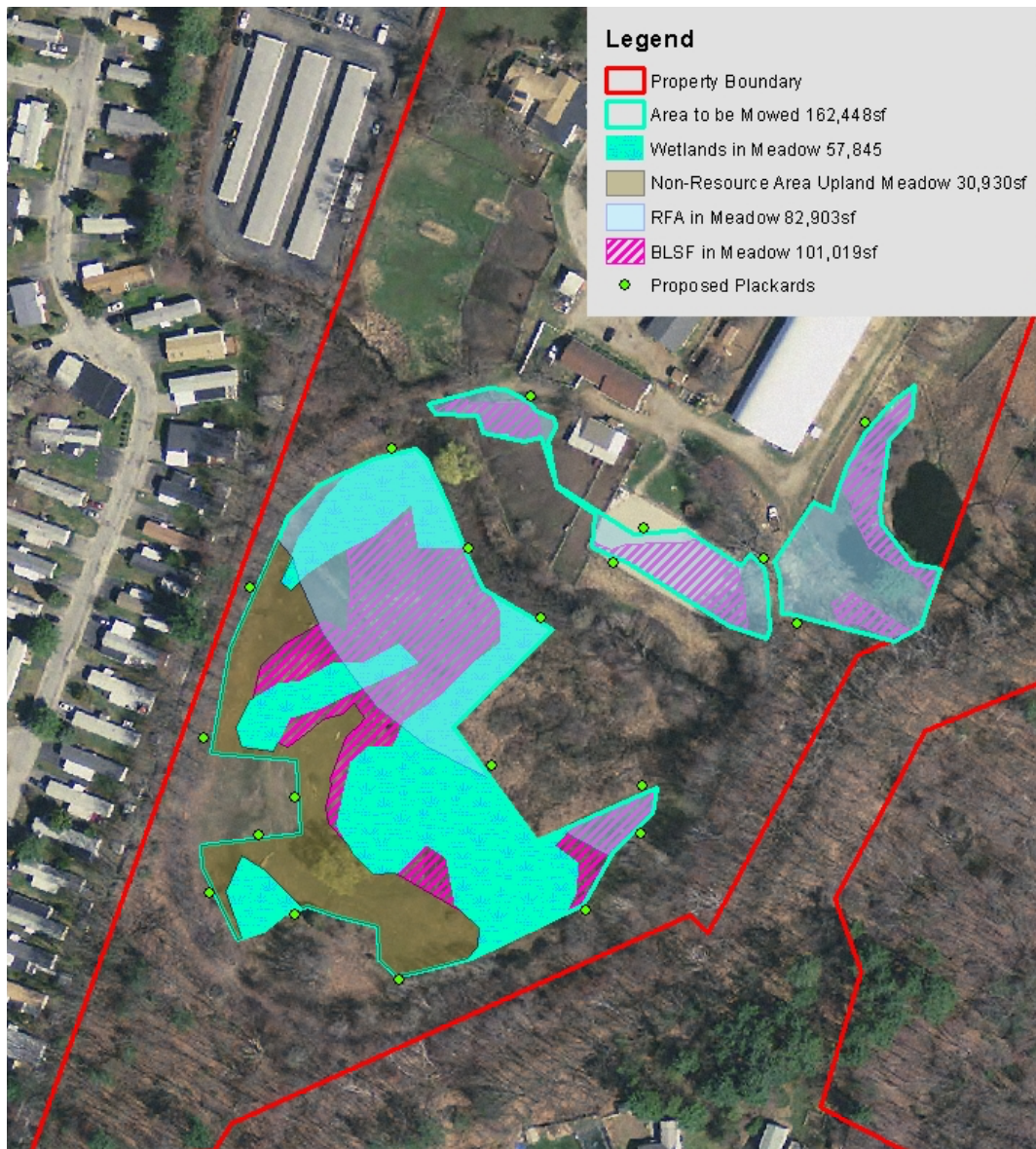


Figure 5. The existing resource areas within the proposed area of meadow management.

Isolated Vegetated Wetland Replication Area

The proposed 4,545sf IVW Replication Area is on the southern portion of the site between the “J-series” and “K-series” wetland (see Figure 6). This proposed area is currently at elevation 276 and consists of upland soils (7.5YR 6/4 at 20-36in). Indicators of hydrology such as redoxification and seasonally high ground water can be found approximately 2-3ft. down, so the area will be graded to elevation 272.5 to function as a wetland. Approximately 6” of organic rich topsoil will be added at to the planting area to make the bottom elevation 273. The rest of the area will be graded up gradually to 276. 2lbs of New England Wetland Seed Mix will be spread across the Replication Area (see Table 1.). This replication plan proposes only native seed

selections that will thrive in the Replication Area and are reflective of the existing plant community. This will provide enhanced wildlife habitat and aesthetic value.



Figure 6. The proposed location for the IVW Replication Area.

Table 1: IVW Replication Area Planting Schedule

Quantity	Common Name	Scientific Name
21b	New England Wetland Mix	var.



Figure 7. The back pasture proposed to be maintained as a meadow. This area consists of uplands, BVW, RFA, and BLSF.

Bordering Land Subject to Flooding Restoration Area

Proposed plantings within the BLSF Restoration Area will be composed of both wetland and upland species that are representative of the native plants within the surrounding area. The majority of the BLSF Restoration Area will consist of both upland and wetland meadow species from a mix of the New England Wetland Mix and New England Conservation Mix. Within the BLSF Restoration Area there will be a total of 13lbs of Conservation mix and 7lbs of Wetland mix to be spread across the Restoration Area (see Table 2). Native seed selections have been selected as plants that will thrive in the BLSF Restoration Area and are reflective of the existing plant community. This will provide enhanced wildlife habitat and aesthetic value. The following table provides the quantity of each species proposed in the attached Planting Plan:

Table 2: BLSF Restoration Area Planting Schedule

Quantity	Common Name	Scientific Name
13lb	New England Conservation Mix	var.
7lb	New England Wetland Mix	var.

General Installation Procedures

Supervision: All work within the IVW Replication and BLSF Restoration Areas shall be supervised by a qualified wetland scientist with a minimum of five years of experience. The supervisor shall submit monitoring reports to the Conservation Commission as described below. Reports shall contain details of all work performed and photographs of completed conditions.

Step 1: Install Erosion Control Barriers

Prior to any work, erosion control barriers will be installed at the downgradient edge of the limit of work.

Step 2: Match Elevation of Disturbed Areas

All areas within the IVW Replication and BLSF Restoration Area will be dug out to match the appropriate elevation as indicated within the site plans *Site Development Plans for Walcott Heritage Farms 339 Boston post Road East Marlborough, MA* dated 7/8/2020.

Step 3: Add Appropriate Soil

A wetland scientist will ensure that at least 6in. of this soil is organic rich topsoil is added to the areas prior to planting.

Step 4: Seeding

New England Conservation and New England Wetland Seed Mixes shall be scattered evenly by hand throughout the BLSF Restoration Areas. Only New England Wetland Mix will be spread in the IVW Replication Area. Following seeding a light application of weed free hay mulch shall be applied to each area to encourage seed germination and reduce water loss.

Step 5: Meadow Management Protocol

Mowing shall be restricted to the area shown in Figure 4. to be demarcated in the field by placards. Within these areas, mowing shall be restricted to once every 2 years. Mowing equipment will be restricted to a mowing height of more than 4” above the ground surface. The naturalized meadow areas that are proposed to be seeded along with the areas proposed to be mowed and maintained shall be demarcated with placards along the outer edges of the area demarcating it as such (see Figure 4).

Timing & Frequency

- October 1st – October 31st
- Once every 2 years

Equipment Restrictions:

- Mowing Height of 4” or higher from ground surface

Use of fertilizers and pesticides in the naturalized meadow areas is PROHIBITED

In order to maintain the natural meadow habitat areas covered by this plan, fertilizers and pesticides shall NOT be used in these areas, except as the Marlborough Conservation Commission may approve.

*Changes to this Wetland Meadow Management Protocol must be approved by the Marlborough Conservation Commission under the Wetlands Protection Act Ref. (DEP File #212-1216). All work shall be done by hand with no motorized equipment. Mowing of any kind is prohibited within this area.

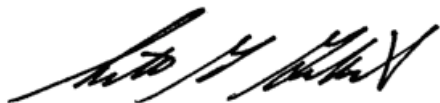
Step 6: Meadow Planting Monitoring

a. **Seasonal monitoring reports** shall be prepared for the IVW Replication Area and BLSF Restoration Area by a qualified wetland scientist for a period of two additional years after the completion of planting. This monitoring program will consist of early summer and early fall inspections and will include photographs and details about the vitality of the BLSF Restoration Area. Monitoring reports shall be submitted to the Commission by November 15th of each year. Monitoring reports shall describe, using narratives, plans, and color photographs, the physical characteristics of the BLSF Restoration Area with respect to stability, survival of vegetation and plant mortality, aerial extent and distribution, species diversity and vertical stratification (i.e. herb, shrub and tree layers). Invasive species will be documented if present within areas impacted by the project, monitored and removed.

b. **At least 75% survival of installed native plants** shall be observed by the end of the second growing season. If the BLSF Restoration Area does not meet the 75% survival requirement by the end of the second growing season after installation, the Applicant shall submit a remediation plan to the Commission for approval that will achieve, under the supervision of a Wetland Specialist, the goals of this plan. This plan must include an analysis of why the areas have not been successful and how the Applicant intends to resolve the problem.

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

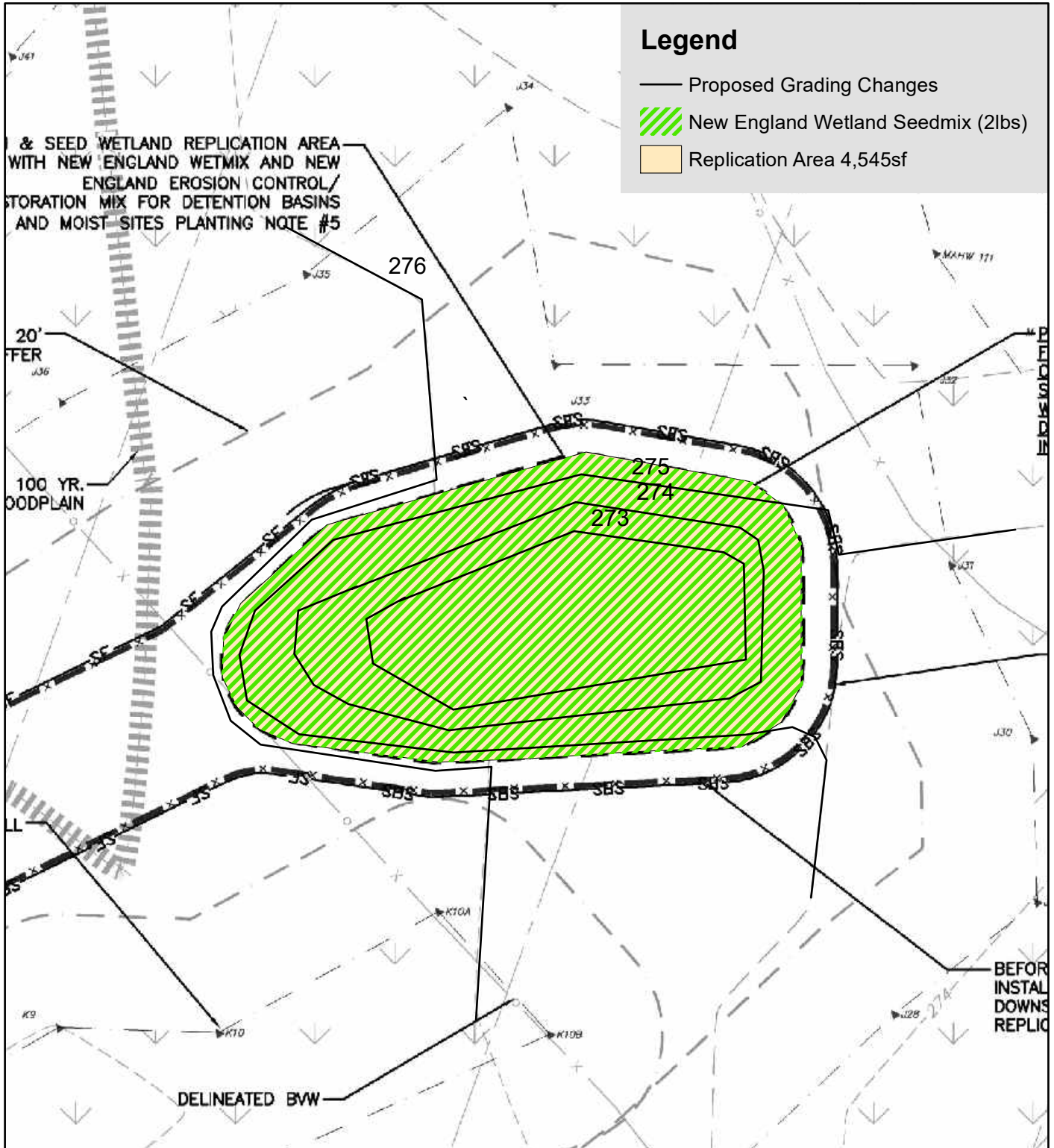
Very truly yours,



Scott Goddard,
Principal & PWS

CC:

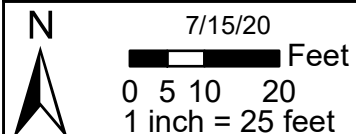
- James Driscoll, WP Marlborough MA Owner, LLC, 9 West Broad St. Stamford, CT 06092
- Valthea Fry, Heritage Farm LLC, One Financial Center Boston, MA 02111
- MassDEP Wetlands Division Central Regional Office, 8 New Bond St., Worcester, MA 01606



Wetland Meadow Replication Area

339 Boston Post Rd.- Marlborough, MA

(Map: 73, Lot: 28)



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

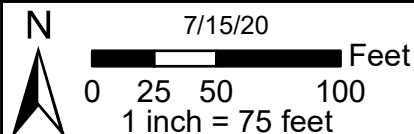




Legend

-  Property Boundary
-  New England Wetland & Conservation Mix
-  BLSF Restoration Area 34,509sf

BLSF Restoration Plan
 339 Boston Post Rd.- Marlborough, MA
 (Map: 73, Lot: 28)



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



NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002

PHONE: 413-548-8000 FAX 413-549-4000

EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Conservation/Wildlife Mix

Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Desmodium canadense</i>	Showy Tick Trefoil	FAC
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Eupatorium purpureum (Eutrochium maculatum)</i>	Purple Joe Pye Weed	FAC
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Aster pilosus (Symphyotrichum pilosum)</i>	Heath (or Hairy) Aster	UPL
<i>Solidago juncea</i>	Early Goldenrod	

PRICE PER LB. \$39.50 MIN. QUANTITY 2 LBS. **TOTAL:** \$79.00

APPLY: 25 LBS/ACRE :1750 sq ft/lb

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers, and legumes

For both good erosion control and wildlife habitat value. The mix is designed to be a no maintenance seeding, and is appropriate for cut and fill slopes, detention basin side slopes, and disturbed areas adjacent to commercial and residential projects.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.

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New England Wetmix (Wetland Seed Mix)

Botanical Name	Common Name	Indicator
<i>Carex vulpinoidea</i>	Fox Sedge	OBL
<i>Carex scoparia</i>	Blunt Broom Sedge	FACW
<i>Carex lurida</i>	Lurid Sedge	OBL
<i>Carex lupulina</i>	Hop Sedge	OBL
<i>Poa palustris</i>	Fowl Bluegrass	FACW
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Scirpus atrovirens</i>	Green Bulrush	OBL
<i>Asclepias incarnata</i>	Swamp Milkweed	OBL
<i>Carex crinita</i>	Fringed Sedge	OBL
<i>Vernonia noveboracensis</i>	New York Ironweed	FACW+
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Aster lateriflorus (Symphyotrichum lateriflorum)</i>	Starved/Calico Aster	FACW
<i>Iris versicolor</i>	Blue Flag	OBL
<i>Glyceria grandis</i>	American Mannagrass	OBL
<i>Mimulus ringens</i>	Square Stemmed Monkey Flower	OBL
<i>Eupatorium maculatum (Eutrochium maculatum)</i>	Spotted Joe Pye Weed	OBL

PRICE PER LB. \$135.00 MIN. QUANTITY 1 LBS. TOTAL: \$135.00

APPLY: 18 LBS/ACRE :2500 sq ft/lb

The New England Wetmix (Wetland Seed Mix) contains a wide variety of native seeds that are suitable for most wetland restoration sites that are not permanently flooded. All species are best suited to moist ground as found in most wet meadows, scrub shrub, or forested wetland restoration areas. The mix is well suited for detention basin borders and the bottom of detention basins not generally under standing water. The seeds will not germinate under inundated conditions. If planted during the fall months the seed mix will germinate the following spring. During the first season of growth several species will produce seeds while other species will produce seeds after the second growing season. Not all species will grow in all wetland situations. This mix is comprised of the wetland species most likely to grow in created/restored wetlands and should produce more than 75% ground cover in two full growing seasons.

The wetland seeds in this mix can be sown by hand, with a hand-held spreader, or hydro-seeded on large or hard to reach sites. Lightly rake to insure good seed-to-soil contact. Seeding can take place on frozen soil, as the freezing and thawing weather of late fall and late winter will work the seed into the soil. If spring conditions are drier than usual watering may be required. If sowing during the summer months supplemental watering will likely be required until germination. A light mulch of clean, weed free straw is recommended.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus SH and applicable taxes.