

Abbreviated Notice of Resource Area Delineation

Prepared For:

Town of Carlisle

Carlisle, Massachusetts

January 12, 2026

Prepared By:

FUSS & O'NEILL

January 12, 2026

Carlisle Conservation Commission
66 Westford Street
Carlisle, MA 01741

Re: Abbreviated Notice of Resource Area Delineation
Carlisle Fire Station
Carlisle, Massachusetts

Dear Members of the Conservation Commission:

On behalf of the Town of Carlisle (Proponent), Fuss & O'Neill is submitting this Abbreviated Notice of Resource Area Delineation (ANRAD) for the Carlisle Fire Station located at 66 Westford Street in the Town of Carlisle. Table 1 below summarizes the delineated lengths of the boundary of resource areas to be reviewed and identified within the Review Area subject to the Massachusetts Wetlands Protection Act (MAWPA: M.G.L. c 131 § 40) and the Carlisle Non-Zoning Wetlands Bylaw. We respectfully request a waiver of the Winter Delineation Policy due to the low probability of error at this particular site, due to the extent of existing development and location of the delineated resource areas at the toe of slope across the Review Area.

Table 1
Summary of Delineated Length of Resource Areas

MAWPA and Holyoke Wetlands Ordinance Resource Areas	Delineated Length
Bordering Vegetated Wetland	455 feet
Inland Bank	275 feet

As part of the ANRAD process, abutters will be notified. A public notice for the ANRAD will be published in The Carlisle Mosquito. Should you have any questions regarding this application, please contact me at April.Doroski@fando.com / (413) 333-5881.

Sincerely,

April Doroski, PWS, CPSS
Water Resources and Climate Resilience Specialist

Copy: MassDEP (NERO) Division of Wetlands and Waterways
Chief Bryan Sorrows, Carlisle Fire Department

Appendix A

WPA Form 4A – Abbreviated Notice of Resource Area Delineation



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 4A – Abbreviated Notice of
Resource Area Delineation
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Carlisle
 City/Town

A. General Information

1. Project Location (**Note:** electronic filers will click on button for GIS locator):

66 Westford Street
 a. Street Address

Carlisle
 b. City/Town

01741
 c. Zip Code

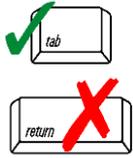
Latitude and Longitude:
 42.52924
 d. Latitude

-71.35225
 e. Longitude

21
 f. Assessors Map/Plat Number

1-0
 g. Parcel /Lot Number

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



2. Applicant:

Bryan
 a. First Name

Somers
 b. Last Name

Carlisle Fire Department
 c. Organization

80 Westford Street P.O. Box 575
 d. Mailing Address

Carlisle
 e. City/Town

MA
 f. State

01741
 g. Zip Code

978-369-2888
 h. Phone Number

chief@carlislefdma.org
 i. Email Address

3. Property owner (if different from applicant):

Check if more than one owner (attach additional sheet with names and contact information)

a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email Address

Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

4. Representative (if any):

April
 a. Contact Person First Name

Doroski
 b. Contact Person Last Name

Fuss & O'Neill
 c. Organization

1550 Main Street, Suite 400
 d. Mailing Address

Springfield
 e. City/Town

MA
 f. State

01103
 g. Zip Code

413-333-5881
 h. Phone Number

april.doroski@fando.com
 i. Fax Number

j. Email Address

5. Total WPA Fee Paid (from attached ANRAD Wetland Fee Transmittal Form):

Fee Exempt
 a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid

Fees will be calculated for online users.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 4A – Abbreviated Notice of
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B. Area(s) Delineated

1. Bordering Vegetated Wetland (BVW) 455
 Linear Feet of Boundary Delineated

2. Check all methods used to delineate the Bordering Vegetated Wetland (BVW) boundary:

- a. MassDEP BVW Field Data Form (attached)
- b. Other Methods for Determining the BVW boundary (attach documentation):
 - 1. 50% or more wetland indicator plants
 - 2. Saturated/inundated conditions exist
 - 3. Groundwater indicators
 - 4. Direct observation
 - 5. Hydric soil indicators
 - 6. Credible evidence of conditions prior to disturbance

3. Indicate any other resource area boundaries that are delineated:

Inland Bank
 a. Resource Area

275
 b. Linear Feet Delineated

 c. Resource Area

 d. Linear Feet Delineated

C. Additional Information

Applicants must include the following plans with this Abbreviated Notice of Resource Area Delineation. See instructions for details. **Online Users:** Attach the Document Transaction Number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. ANRAD (Delineation Plans only)
- 2. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 3. Plans identifying the boundaries of the Bordering Vegetated Wetlands (BVW) (and/or other resource areas, if applicable).
- 4. List the titles and final revision dates for all plans and other materials submitted with this Abbreviated Notice of Resource Area Delineation.

D. Fees



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
**WPA Form 4A – Abbreviated Notice of
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Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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Carlisle
City/Town

The fees for work proposed under each Abbreviated Notice of Resource Area Delineation must be calculated and submitted to the Conservation Commission and the Department (see Instructions and Wetland Fee Transmittal Form).

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to the attached Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name

E. Signatures

I certify under the penalties of perjury that the foregoing Abbreviated Notice of Resource Area Delineation and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
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Provided by MassDEP:

MassDEP File Number _____

Document Transaction Number _____

Carlisle
 City/Town

understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

I hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

I acknowledge that failure to comply with these certification requirements is grounds for the Conservation Commission or the Department to take enforcement action.

Byron Soms

 1. Signature of Applicant

1/12/2026

 2. Date

3. Signature of Property Owner (if different)

4. Date

April Dowski

 5. Signature of Representative (if any)

1/12/26

 6. Date

For Conservation Commission:

Two copies of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; two copies of the ANRAD Wetland Fee Transmittal Form; and the city/town fee payment must be sent to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Abbreviated Notice of Resource Area Delineation (Form 4A), including supporting plans and documents; one copy of the ANRAD Wetland Fee Transmittal Form; and a copy of the state fee payment must be sent to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery. (E-filers may submit these electronically.)

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
ANRAD Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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



A. Applicant Information

1. Location of Project:

66 Westford Street Carlisle
 a. Street Address b. City/Town
 Exempt Exempt
 c. Fee amount d. Check number

2. Applicant:

Bryan Sorrows Carlisle Fire Department
 a. First Name b. Last Name c. Company
 80 Westford Street P.O.Box 575
 d. Mailing Address
Carlisle MA 01741
 e. City/Town f. State g. Zip Code
 978-369-2888
 h. Phone Number

3. Property Owner (if different):

a. First Name b. Last Name c. Company
 d. Mailing Address
 e. City/Town f. State g. Zip Code
 h. Phone Number

B. Fees

The fee is calculated as follows for each Resource Area Delineation included in the ANRAD (check applicable project type). The maximum fee for each ANRAD, regardless of the number of Resource Area Delineations, is \$200 activities associated with a single-family house and \$2,000 for any other activity.

Bordering Vegetated Wetland Delineation Fee:

1. single family house project a. feet of BVW x \$2.00 = b. Fee for BVW
 2. all other projects a. feet of BVW x \$2.00 = b. Fee for BVW

Other Resource Area (e.g., bank, riverfront area, etc.):

3. single family house project a. linear feet x \$2.00 = b. Fee
 4. all other projects a. linear feet x \$2.00 = b. Fee

Total Fee for all Resource Areas: Exempt
 Fee

State share of filing fee: Exempt
 5. 1/2 of total fee **less** \$12.50

City/Town share of filing fee: Exempt
 6. 1/2 of total fee **plus** \$12.50

Online users: check box if fee exempt.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
ANRAD Wetland Fee Transmittal Form
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Submittal Requirements

- a.) Send a copy of this form, with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts, to:

Department of Environmental Protection
Box 4062
Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Abbreviated Notice of Resource Area Delineation; a **copy** of this form; and the city/town fee payment.
- c.) **To DEP Regional Office:** Send one copy of the Abbreviated Notice of Resource Area Delineation (and any additional documentation required as part of a Simplified Review Buffer Zone Project); a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Appendix B

Wetland Delineation Report

July 25, 2025 (revised January 12, 2026)

Mr. Matt Salad
Tecton Architects
34 Sequassen Street, Suite 200
Hartford, Connecticut 06106

RE: Wetland Delineation Report
66 Westford Street, Carlisle, Massachusetts
Fuss & O'Neill Reference No. 2025003.A10

Dear Mr. Salad:

On July 10, 2025 a Fuss & O'Neill, Inc. wetland and soil scientist performed a wetland resource area delineation within a portion of 66 Westford Street directly adjacent to the parking lot ("Review Area") in Carlisle of Middlesex County, Massachusetts.

This letter provides a summary of regulated and protected resource areas as defined by the Massachusetts Wetlands Protection Act (M.G.L. c. 131 § 40, "MAWPA") and its implementing regulations (310 CMR 10.00), the Massachusetts Endangered Species Act (321 CMR 10.00), the Carlisle Non-Zoning Wetlands Bylaw, and the federal Clean Water Act (33 U.S.C. §1251 et seq., "CWA").

Methodology of Resource Area Delineation

The wetland delineation was conducted in conformance with local, state, and federal regulations and guidelines including:

- MAWPA (M.G.L. c. 131, § 40), its implementing regulations set forth at 310 CMR 10.00
- Massachusetts Department of Environmental Protection (MassDEP) *Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands* (September 2022)
- *Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (January 1987)
- *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (January 2012)
- *Field Indicators for Identifying Hydric Soils in New England* (Version 4, April 2019)
- Carlisle Non-Zoning Wetlands Bylaw

During the delineation, a Fuss & O'Neill wetland and soil scientist assessed the Review Area and observed vegetation and soils to verify the presence or absence of wetlands. Where Bank and BVW were observed, the resource area boundaries were delineated, and information regarding vegetation, soils, and hydrology was collected. Each flag location was named based on an alpha-numeric nomenclature and collected by a professional land surveyor.

Fuss & O'Neill also conducted a desktop review of available online resources within the vicinity of the Review Area prior to performing the wetland delineation including:

- Massachusetts Mapper (MassMapper)
- Town of Carlisle FEMA Flood Insurance Rate Map (FIRM, Map No. 25017C0263F, effective July 7, 2014)
- Natural Heritage & Endangered Species Program (NHESP) database 15th Edition, effective August 1, 2021

Resource Areas

Resource Areas Not Present

The following resource areas subject to MAWPA, Non-zoning Wetland Bylaw, CWA, and MESA are not located within the Review Area according to MassMapper:

- NHESP Estimated Habitats of Rare Wildlife
- NHESP Priority Habitats of Rare Species
- Land Subject to Flooding
- 200-foot Riverfront Area

Resource Areas and Protected Areas Present within the Review Area

- Inland Bank
- Bordering Vegetated Wetlands
- Land Under Water Bodies and Waterways
- NHESP Certified Vernal Pools

Resource Areas Descriptions

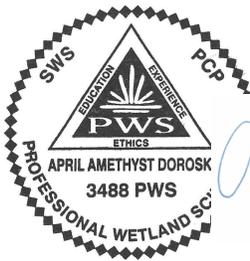
Bordering Vegetated Wetland A and Bank A

Bordering Vegetated Wetland A (BVW A) defined by flags A-100 to A-106 and A-120 through A-130 is best described as a palustrine emergent wetland (PEM) / palustrine scrub shrub wetland (PSS). The upgradient extent of the wetland originates east of the Carlisle Fire Department (FD) parking lot in a low-lying swale that transitions to Bank of an intermittent stream defined by flags A-107 to A-119. This stream generally flows to the north through a cross culvert and into the main portion of BVW A, which is also mapped as a NHESP Certified Vernal Pool generally north of the Carlisle FD parking lot. Land Under Water (LUW) is associated with the unnamed intermittent stream defined by Bank A. Refer to the attached Wetland Sketch for a representation of the delineated boundaries.

BVW A and Bank A are both afforded a 100-foot Buffer Zone per the MAWPA and the Carlisle Non-Zoning Wetlands Bylaw. There are no performance standards for Buffer Zone in the Carlisle Non-Zoning Wetlands Bylaw or MAWPA.

The vernal pool within the main portion of BVW A is also protected under the Title 5 of the Massachusetts Environmental Code, Section 401 of the Federal Clean Water Act, the Massachusetts Surface Water Quality Standards which relate to Section 401, and the Massachusetts Forest Cutting Practices Act.

Sincerely,



April Doroski

April Doroski, PWS, CPSS
Senior Wetland Scientist | Permitting Specialist

Attachments

Figures

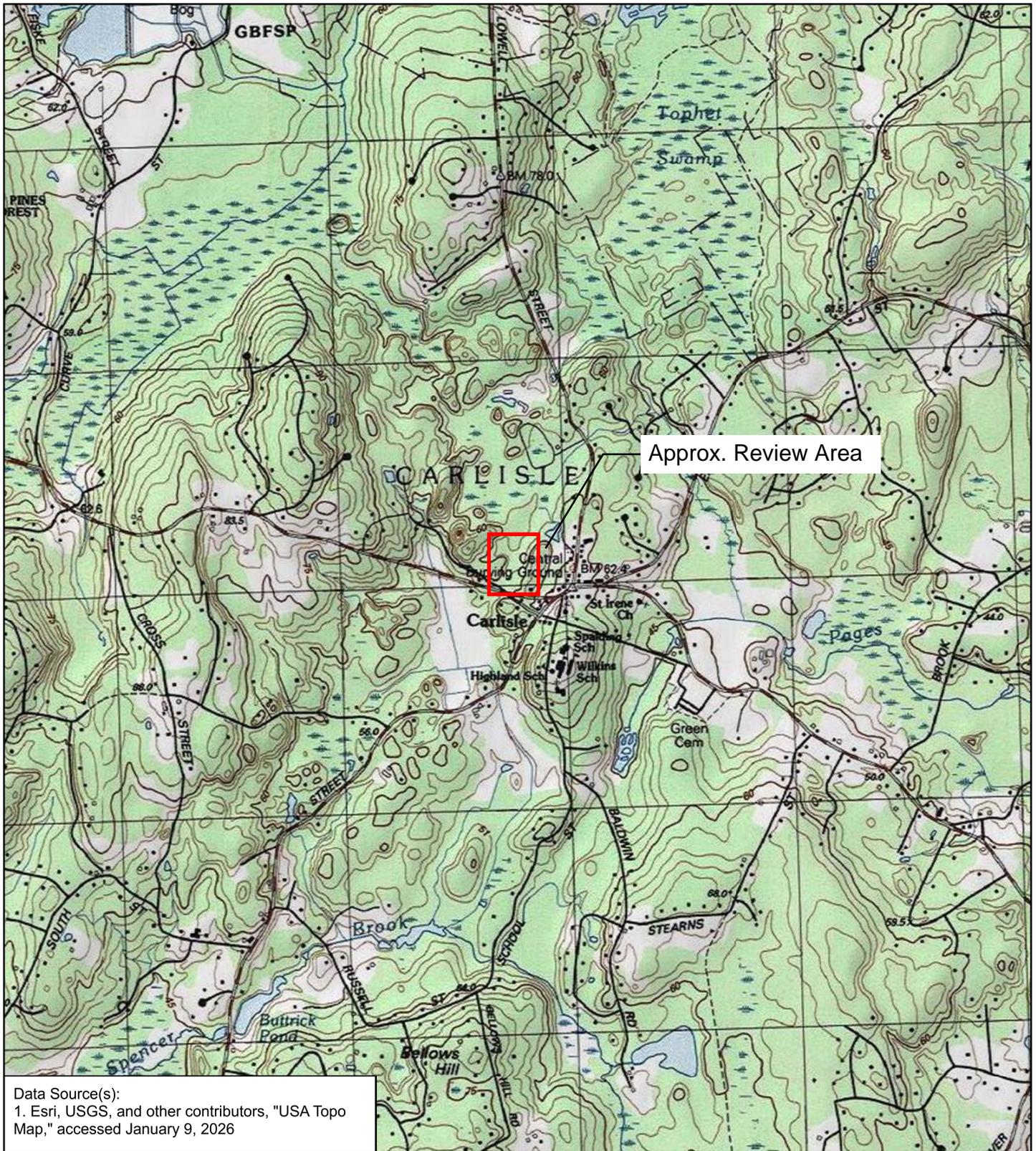
USGS Topographic Map (Figure 1)
Wetland Delineation Sketch (Figure 2)
FEMA FIRM (Map No. 25017C0263, effective July 7, 2014; Figure 3)

A Site Photographs

B U.S. Army Corps Wetland Delineation Data Forms – Northcentral and Northeast BVW A

Figures

USGS Topographic Map (Figure 1)
Wetland Delineation Sketch (Figure 2)
FEMA FIRM (Figure 3)



Approx. Review Area

Data Source(s):
 1. Esri, USGS, and other contributors, "USA Topo Map," accessed January 9, 2026



Legend

Approximate Review Area

Scale: 1:24,000



USGS Topographic Map

66 Westford Street

Carlisle

Massachusetts

FUSS & O'NEILL

1550 Main Street, Suite 400
 Springfield, MA 01103
 413.452.0445 | www.fando.com

Figure
1

Wetland Delineation Sketch



Figure 2

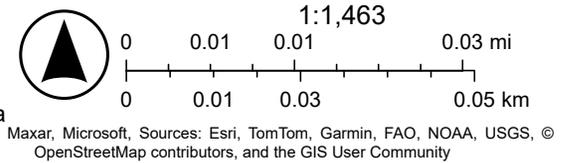
7/11/2025

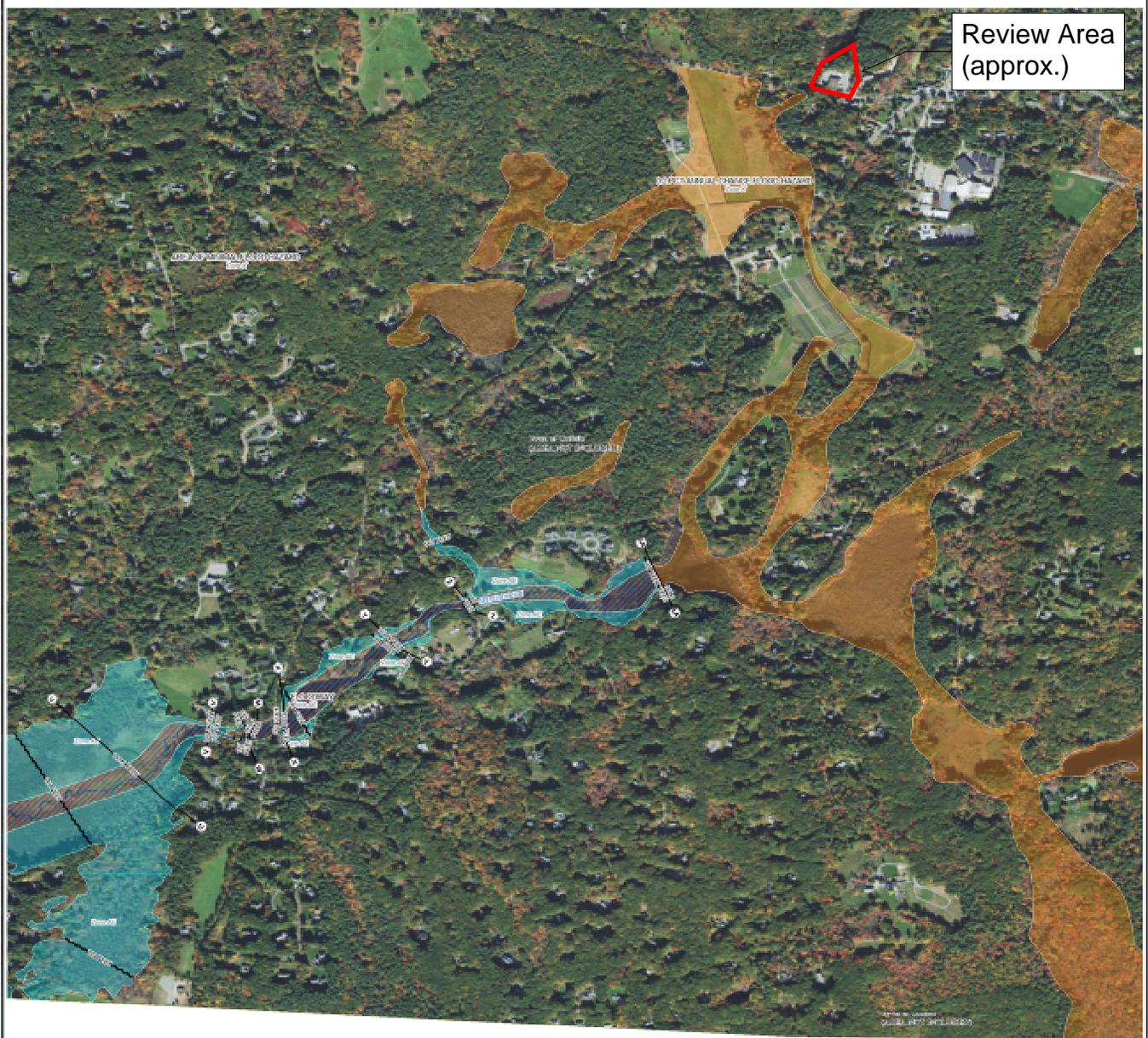
-  Parcel Boundry
-  BVW Flag
-  Bank Flag

-  Culvert
-  Wetland Plot
- World Imagery

Low Resolution 15m Imagery
 High Resolution 60cm Imagery
 High Resolution 30cm Imagery

Citations
 30cm Resolution Metadata





Review Area
(approx.)

Figure 3

FLOOD HAZARD INFORMATION
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, AE, AO, AH, VE, AR
	With BFE or Depth
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 5% Annual Chance Flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee Zone D
	Area with Flood Risk due to Levee Zone D
OTHER AREAS	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMs
	Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall
OTHER FEATURES	20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
	17.5 Coastal Transsect
	Coastal Transsect Baseline
	Profile Baseline
	Hydrographic Feature
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eExchange at 1-877-FEMA-Map (1-877-368-6277) or visit the FEMA Flood Map Service Center website at [Map.fema.gov](http://map.fema.gov). Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Communities receiving land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be created directly from the Flood Map Service Center at the number listed above.

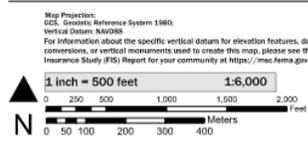
For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-433-9282.

Accuracy information about this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAD83, dated April 11, 2010.

This map was reported from FEMA's National Flood Hazard Layer (NFHL) on 7/8/2013 8:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and elevation information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Update Overview Fact Sheet at <http://www.fema.gov/media/document/fhs130413>.

This map complies with FEMA's standards for the use of digital flood maps. It is not used as described below. The base map shown complies with FEMA's base map accuracy standards. This map is not used if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, county identifiers, FIRM panel number, and FIRM effective date.

SCALE



NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
PANEL 263 OF 654

Panel Contains:
COMMUNITY NUMBER TOWN OF CARLISLE 250187 PANEL 0263

FEMA
National Flood Insurance Program

MAP NUMBER 25017C0263F
EFFECTIVE DATE July 07, 2014

Attachment A

Site Photographs



Photo 1: Overview of BVW A on eastern side of the fire station from flag A-105.



Photo 2: Overview of BVW A data plot near flag A-103.



Photo 3: Overview of BVW A, north of the fire station.



Photo 4: Overview of delineated Bank A on the eastern side of the fire station.



Photo 5: View of the cross culvert conveying the intermittent stream associated with Bank A near flag A-115.



Photo 6: View upstream from the cross culvert that conveys the stream associated with Bank.

Attachment B

U.S. Army Corps Wetland Determination Data Sheet – Northcentral and Northeast

Project/Site: 66 Westford Street City/County: Carlisle Sampling Date: 7/10/2025
 Applicant/Owner: Town of Carlisle State: MA Sampling Point: Wet A
 Investigator(s): April Doroski, PWS, CPSS, Fuss & O'Neill Section, Township, Range: Carlisle
 Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 42.52920292506102, Long: -71.35217273568567 Datum: NAD83 State Plane
 Soil Map Unit Name: Hollis-Rock outcrop-Charlton complex, 0 to 15 percent slopes NWI classification: PSS, Freshwater Pond
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>BVW A</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: Wet A

<u>Tree Stratum</u> (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Total % Cover of:</th> <th style="width:50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>60</u></td> <td>x 2 = <u>120</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>75</u> (A)</td> <td><u>165</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.20</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>60</u>	x 2 = <u>120</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>75</u> (A)	<u>165</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
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Prevalence Index = B/A = <u>2.20</u>																				
=Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
=Total Cover				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> <u>2</u> - Dominance Test is >50% <input checked="" type="checkbox"/> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
<u>Herb Stratum</u> (Plot size: <u>5</u>)																				
1. <u>Onoclea sensibilis</u>	<u>60</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Toxicodendron radicans</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
<u>75</u> =Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
=Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.) Other vegetation observed outside of the data plot includes skunk cabbage and jewelweed.																				

Appendix B

Existing Conditions Plan

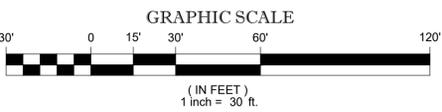


LEGEND	
---	EXISTING CONTOUR
x	EXISTING SPOT ELEVATION
x TC	EXISTING TOP OF CURB ELEVATION
x BC	EXISTING BOTTOM OF CURB ELEVATION
x TW	EXISTING TOP OF WALL ELEVATION
x BW	EXISTING BOTTOM OF WALL ELEVATION
x FF	EXISTING FINISHED FLOOR ELEVATION
x DS	EXISTING DOOR SILL ELEVATION
⊕	HYDRANT
⊕	WATER VALVE
⊕	PRESSURE INDICATOR VALVE
⊕	GROUND FLOOD LIGHT
⊕	BORING
⊕	VENT & NUMBER OF VENTS
⊕	FIRE DEPARTMENT CONNECTION (F.D.C.)
⊕	GAS VALVE
⊕	GAS METER
⊕	ELECTRIC METER
—	OVERHEAD WIRES
—	APPROX. LOC. UNDERGROUND GAS LINE
—	APPROX. LOC. UNDERGROUND ELECTRIC LINE
—	APPROX. LOC. UNDERGROUND ELECTRIC & TELEPHONE LINE
—	APPROX. LOC. UNDERGROUND DRAINAGE LINE
—	APPROX. LOC. UNDERGROUND SANITARY / SEWER LINE
UP #	UTILITY POLE
UPLP #	UTILITY POLE/LIGHT POLE
GW	GUY WIRE
MW	MONITORING WELL
—	SIGN
Po	POST
•	BOLLARD
—	METAL GUIDE RAIL
⊕	DRAINAGE/STORM MANHOLE
⊕	UNKNOWN MANHOLE
⊕	SANITARY/SEWER MANHOLE
⊕	CATCH BASIN OR INLET
⊕	TREE & TRUNK SIZE
⊕	CONIFEROUS TREE & TRUNK SIZE
⊕	SHRUBS
UG	UNDER GROUND
CLF	CHAIN LINK FENCE
EDC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
LSA	LANDSCAPED AREA
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
DYL	DOUBLE YELLOW LINE
HT	HEIGHT
BLDG	BUILDING
BFFPA	BUILDING FOOTPRINT AREA
NVP	NO VISIBLE PIPE
EL	ELEVATION
PVC	POLYVINYL CHLORIDE PIPE
CI	CAST IRON PIPE
RCP	REINFORCED CONCRETE PIPE
INV	INVERT ELEVATION
GRT	GRATE ELEVATION
-C-	SUBSURFACE UTILITY QUALITY LEVEL C
-D-	SUBSURFACE UTILITY QUALITY LEVEL D
⊕	WATER WELL

SEE SHEET 1 OF 2 FOR NOTES AND REFERENCES

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

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GERRY L. HOLDRIGHT, PLS
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

08-08-2025
DATE

FIELD DATE	07-18-2025	BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY FUSS & O'NEILL, INC. 66 WESTFORD STREET MAP 21, LOT 1 TOWN OF CARLISLE, MIDDLESEX COUNTY COMMONWEALTH OF MASSACHUSETTS							
FIELD BOOK NO.	25-5-MA								
FIELD BOOK PG.	91	CONTROL POINT ASSOCIATES, INC. 35 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 508.945.3000 WWW.CPASURVEY.COM							
FIELD CREW	J.D.O.								
DRAWN	R.A.B.	WARREN, NJ 08063-0000 871 L. BERRY, JR. 08005-2000 MANHATTAN, NY 10805-2000 LONG BEACH, NY 11560-2000 BROOKFIELD, NY 14815-2000 ALBANY, NY 12212-2000 PITTSBURGH, PA 15212-2000 ELIZABETH, NJ 07208-2000 FT. LAUDERDALE, FL 33408-2000							
APPROVED	G.L.H.	DATE	08-08-2025	SCALE	1"=30'	FILE NO.	03-250196-00	DWG. NO.	2 OF 2

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