

Property within 500' of adjoining Town boundary? _____
If so, which town(s)? _____
Date the notice was sent by KIWWC to town clerk of adjoining municipality(ies) _____
Receipt date of copy of Applicants notice to adjoining municipality _____

Application #: 20-1511
Date Submitted: 11/23/20
Date of Receipt by Comm: 12/7/20
Fee: \$ 160 - Pd. 11/23/20
CHECK # 0025415
Staff Initials: dmj

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

A \$100.00 base fee (or, for a proposed subdivision, \$100.00 per lot, whichever is greater) plus \$60.00 state fee must accompany each application (Total fee: \$160.00). THIS FEE IS NON-REFUNDABLE. Checks or money orders should be made payable to the Town of Killingly. Public hearing fee: \$225.00 required in addition to the above fees if a public hearing is required by the commission(s) and not already included.

TO BE COMPLETED BY THE APPLICANT - PLEASE PRINT

Applicant's Name: RICHARD R. O'KEEFE
Day Phone #: 860-949-9099 Evening Phone #: SAME
Mailing Address: PO Box 26 DANIELSON CT 06239
Owner of Record: SAME
Mailing Address: _____ Phone #: _____

Applicant's interest in the land if the applicant is not the property owner: _____

Authorization of property owner: _____

LOCATION OF PROPERTY:

House # and Street: 1496 HARTFORD PIKE (ROUTE 101)
Tax Map Number: 99 Block: - Lot: 1
Zoning District: RD Lot Size: 6.1 ± AC Lot Frontage: 137.81'
Easements and/or deed restrictions: _____

PURPOSE:

Provide the purpose and description of the proposed activity, including a list of all proposed regulated activities:

PROPOSED SINGLE FAMILY RESIDENCE WITH ACTIVITY WITHIN THE UPLAND REVIEW AREA & PROPOSED GRAVEL PATH THROUGH WETLANDS TO WATER'S EDGE FOR DOCK ACCESS

ON-SITE WETLANDS AND WATERCOURSES:

Windham County wetland soil types and areas of each type:

SEE ATTACHED
DELINEATION REPORT

Watercourse(s) – type (pond, stream, marsh, bog, drainage ditch, etc.), manmade or natural, and area of each:

SEE ATTACHED
DELINEATION REPORT

ALTERNATIVES:

List alternatives considered by the applicant and state why the proposal to alter wetlands as set forth in the application is necessary and was chosen:

THATRE ARE NOT AVAILABLE ALTERNATIVES FOR THIS SITE.
USABLE LAND IS LIMITED BY WETLANDS & FLOOD ELEVATION

MATERIALS:

Provide the volume (cubic yard) and nature of materials to be deposited and/or extracted:

APPROXIMATELY 1,500 CUBIC YARDS OF CLEAN FILL MATERIAL
WILL BE REQUIRED TO BRING THE SITE TO FINAL GRADE.

MITIGATIVE MEASURES:

List measures to be taken to minimize or avoid any adverse impact on the regulated area:

SILT FENCE & STACKED HAY BALES

BIOLOGICAL EVALUATION:

Describe the ecological communities and functions of the wetlands or watercourses involved with the application and the effects of the proposed regulated activities on these communities and wetland functions:

WETLANDS IMPACT REPORT TO BE PROVIDED. NO ANTICIPATED
IMPACTS TO THE WETLANDS FUNCTIONS OR ECOLOGICAL COMMUNITY

SITE PLAN*:

Scale 1"=40' showing existing and proposed conditions in relation to wetlands and water courses to include, but not be limited to:

Contours

Buildings

Wells

Driveways

Septic Systems

Drainage Systems (Including Culverts, Footing and Curtain Drains)

Erosion and Sedimentation controls

Wetlands

Watercourses

Areas of Excavation and /or Material Deposit

**Refer to Section 6.0 – Application Information Requirements and Section 7.0 – Application Evaluation Criteria of the Killingly Inland Wetlands & Watercourses Commission Regulations for information the Commission may require. Professionally prepared plans (Licensed Land Surveyor/Professional Engineer registered in the State of Connecticut, Soil Scientist) may be required for significant activities.*

ADDITIONAL INFORMATION:

List additional information submitted by the applicant:

Nitrogen Renovation Calculation for Septic Installation

The applicant understands that this application is to be considered complete only when all information and documents required by the Commission have been submitted. The undersigned warrants the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge and belief. Permission is granted to the Town of Killingly, Killingly Inland Wetlands & Watercourses Commission, and its agent (s) to walk the land, at reasonable times, and perform those tests necessary to properly review the application, both before and after a final decision has been issued.

Applicant's Signature:

Rui O'Neil

Date:

11-17-2020

Owner of Record:

Date:

Parcel Number	GIS Number	Property Address	Owner Name	Co-Owner Name	Owner Address	Owner Address 2	Owner City	Owner State	Owner Zip
096-001-000	096-001-000-000	1480 HARTFORD PIKE	CHESTNUT HILL RESERVOIR CO		PO BOX 742		IMOUNT KISCO	NY	10549
099-007-000	099-007-000-000	1497 HARTFORD PIKE	HAMEL JAMES & LENORE M FELPEL		PO BOX 65		KILLINGLY	CT	06243



GIS CODE #: _____
For DEEP Use Only

79 Elm Street • Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete and mail this form in accordance with the instructions on pages 2 and 3 to:

DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106

Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

- DATE ACTION WAS TAKEN: year: _____ month: _____
- ACTION TAKEN (see instructions, only use one code): _____
- WAS A PUBLIC HEARING HELD (check one)? yes no
- NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:
(print name) _____ (signature) _____

PART II: To Be Completed By The Inland Wetlands Agency Or The Applicant

- TOWN IN WHICH THE ACTION IS OCCURRING (print name): KILLINGLY
does this project cross municipal boundaries (check one)? yes no
if yes, list the other town(s) in which the action is occurring (print name(s)): _____
- LOCATION (see instructions for information): USGS quad name: EAST KILLINGLY or number: 44
subregional drainage basin number: 3404
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): RICHARD R. O'KEEFE
- NAME & ADDRESS / LOCATION OF PROJECT SITE (print information): 1496 HARTFORD PIKE (RT5101)
briefly describe the action/project/activity (check and print information): temporary permanent description: PROPOSED SINGLE FAMILY RESIDENCE WITHIN UPLAND REVIEW AREA
- ACTIVITY PURPOSE CODE (see instructions, only use one code): B
- ACTIVITY TYPE CODE(S) (see instructions for codes): 9, 12, _____, _____
- WETLAND / WATERCOURSE AREA ALTERED (must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
- UPLAND AREA ALTERED (must provide acres): 0.8± acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

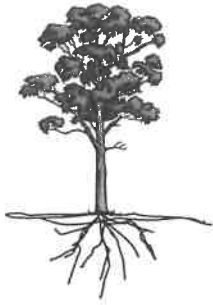
DATE RECEIVED:

PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



Joseph R. Theroux

~ Certified Forester/ Soil Scientist ~

Phone 860-428-7992 ~ Fax 860-376-6842

P.O. Box 32, Voluntown, CT. 06384

Forestry Services ~ Wetland Impact Assessments

Wetland Delineations and Permitting ~ E&S/Site Monitoring

Wetland function and value assessments

3/31/20

Killingly Engineering Associates

P.O. Box 421

Dayville, CT. 06241

Re: Wetland delineation, 1496 Hartford Pike, Killingly, CT.

Dear Mr. Glaude,

At your request I have delineated the inland wetlands on the above referenced property.

These wetlands have been delineated in accordance with the standards of the National Cooperative Soil Survey and the definitions of wetlands as found in the Connecticut Statutes, Chapter 440, Sections 22A-38.

Fluorescent pink flags with a corresponding location number delineate the boundary between the upland soils and the inland wetlands that were found.

Flag numbers WF-1 through WF-22 delineate the high water mark of Middle Reservoir and adjacent inland wetlands along the western property boundary.

Flag numbers WF-1A through WF-38A delineate the high water mark of Middle Reservoir and the adjacent marsh/bog along the eastern property boundary.

Within this delineation line, flag numbers WF-8A through WF-20A delineate a vernal pool that has formed in a small cove that receives hydrology from groundwater and surface flows from the adjacent marsh/bog. Two egg masses were observed on the date of the delineation, (3/31/20).

These wetland soils are characterized by shallow redoximorphic features and low chroma colors within 20 inches of the soil surface.

In conclusion, if you have any questions concerning the delineation or this report, please feel free to contact me.

Thank you,

A handwritten signature in black ink, appearing to read 'J. R. Theroux', written in a cursive style.

Joseph R. Theroux
Certified Soil Scientist
Member SSSSNE, NSCSS.

Killingly Engineering Associates

Civil Engineering & Surveying



Engineering – Surveying – Site Planning
P.O. Box 421
Dayville, CT 06241

Telephone (860) 779-3703
Fax (860) 774-3703

SEPTIC SYSTEM NITROGEN RENOVATION ANALYSIS

Client: O'Keefe
Project: 1496 Hartford Pike
Proj. No: 20055

Prepared By: NET
Checked By:

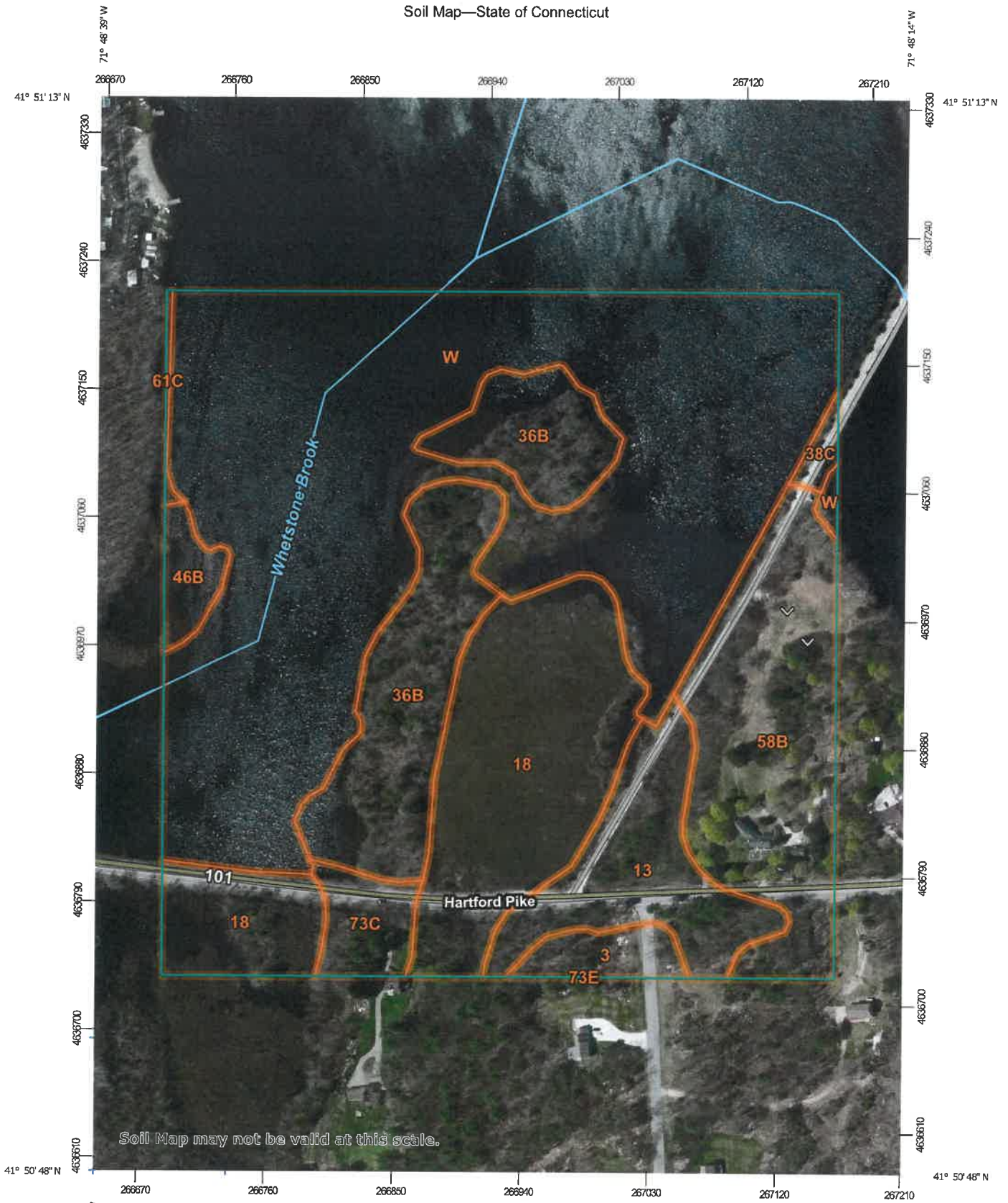
Date: 11/18/2020
Date:

# bedrooms	3	(Each bedroom contributes 150 gpd)
nitrogen concentration in raw wastewater	40 mg/l	(Typical household wastewater = 40 mg/l)
pretreatment nitrogen removal	40 %	(Typical removal in septic tank = 40%)
Average daily precipitation	0.015 ft/ft ²	(CT average precipitation = 0.015 ft/ft ² /day)
Dilution drainage area	9,660 ft ²	(Only areas on the subject property should be included in the drainage area)
Average runoff coefficient	0.2	

Diluted nitrogen concentration **8.2 mg/l** (Drinking water standard is 10 mg/l, max.)

Analysis methodology is taken from "Seepage and Pollutant Revonvation Analysis for Land Treatment Sewage Disposal Systems, CT DEP, Revised 1997"

Soil Map—State of Connecticut






Soil Map may not be valid at this scale.

Map Scale: 1:3,680 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge ticks: UTM Zone 19N WGS84

MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
-  Soils
-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points
- Special Point Features**
 -  Blowout
 -  Borrow Pit
 -  Clay Spot
 -  Closed Depression
 -  Gravel Pit
 -  Gravelly Spot
 -  Landfill
 -  Lava Flow
 -  Marsh or swamp
 -  Mine or Quarry
 -  Miscellaneous Water
 -  Perennial Water
 -  Rock Outcrop
 -  Saline Spot
 -  Sandy Spot
 -  Severely Eroded Spot
 -  Sinkhole
 -  Slide or Slip
 -  Sodic Spot
- Water Features**
 -  Streams and Canals
- Transportation**
 -  Rails
 -  Interstate Highways
 -  US Routes
 -  Major Roads
 -  Local Roads
- Background**
 -  Aerial Photography
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut
 Survey Area Data: Version 20, Jun 9, 2020

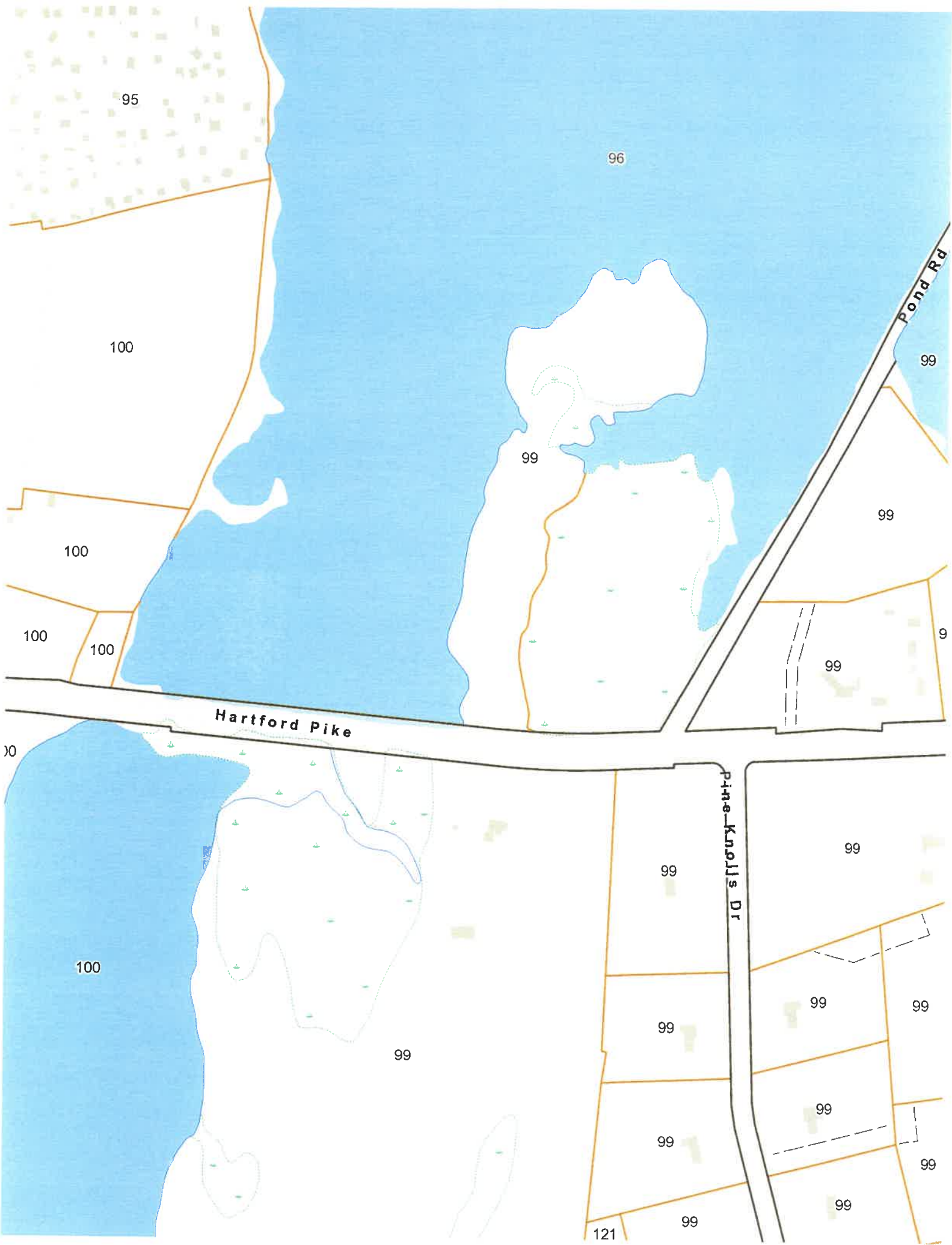
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2011—Aug 27, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	0.9	1.6%
13	Walpole sandy loam, 0 to 3 percent slopes	3.8	6.7%
18	Catden and Freetown soils, 0 to 2 percent slopes	9.2	16.2%
36B	Windsor loamy sand, 3 to 8 percent slopes	6.7	11.9%
38C	Hinckley loamy sand, 3 to 15 percent slopes	0.3	0.5%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	0.8	1.3%
58B	Gloucester gravelly sandy loam, 3 to 8 percent slopes, very stony	7.0	12.3%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	0.1	0.2%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	1.2	2.1%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	0.0	0.0%
W	Water	26.7	47.1%
Totals for Area of Interest		56.7	100.0%



95

96

100

Pond Rd

99

99

99

100

100

100

99

9

Hartford Pike

100

Pine Knolls Dr

99

99

100

99

99

99

99

99

99

99

121

99

99



Killingly Engineering Associates

P.O. Box 421 Killingly, CT 06241
Phone: 860-779-7299
www.killinglyengineering.com

November 17, 2020

Proposed Residential Development

Richard R. O'Keefe
1496 Hartford Pike (Route 101)
Killingly, CT

Per Section 7.10 of the Regulations for the Protection and Preservation of Inland Wetland and Watercourses
The applicant certifies that:

- a. The property on which the regulated activity is proposed is not located within 500 feet of the boundary of an adjoining municipality;
- b. Traffic attributable to the completed project on the site will not use streets within an adjoining municipality to enter or exit the site;
- c. Sewer or water drainage from the project site will not flow through and impact the sewage or drainage system within an adjoining municipality;
- d. Water run-off from the improved site will not impact streets or other municipal or private property within an adjoining municipality.

Applicant

Date

11-17-2020



Federal Emergency Management Agency

Washington, D.C. 20472

November 09, 2020

MR. GREG A. GLAUDE
KILLINGLY ENGINEERING ASSOCIATES,
LLC
P.O. BOX 421
DAYVILLE, CT 06241

CASE NO.: 20-01-1608A
COMMUNITY: TOWN OF KILLINGLY, WINDHAM
COUNTY, CONNECTICUT
COMMUNITY NO.: 090136

DEAR MR. GLAUDE:

This is in reference to a request that the Federal Emergency Management Agency (FEMA) determine if the property described in the enclosed document is located within an identified Special Flood Hazard Area, the area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), on the effective National Flood Insurance Program (NFIP) map. Using the information submitted and the effective NFIP map, our determination is shown on the attached Letter of Map Amendment (LOMA) Determination Document. This determination document provides additional information regarding the effective NFIP map, the legal description of the property and our determination.

Additional documents are enclosed which provide information regarding the subject property and LOMAs. Please see the List of Enclosures below to determine which documents are enclosed. Other attachments specific to this request may be included as referenced in the Determination/Comment document. If you have any questions about this letter or any of the enclosures, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Sincerely,

Luis V. Rodriguez, P.E., Director
Engineering and Modeling Division
Federal Insurance and Mitigation Administration

LIST OF ENCLOSURES:

LOMA DETERMINATION DOCUMENT (REMOVAL)

cc: State/Commonwealth NFIP Coordinator
Community Map Repository
Region



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL)

COMMUNITY AND MAP PANEL INFORMATION		LEGAL PROPERTY DESCRIPTION
COMMUNITY	TOWN OF KILLINGLY, WINDHAM COUNTY, CONNECTICUT	A portion of a parcel of land, as described in the Trustee's Deed recorded in Volume 1370, Page 372, in the Office of the Town Clerk, Killingly, Connecticut The portion of property is more particularly described by the following metes and bounds:
	COMMUNITY NO.: 090136	
AFFECTED MAP PANEL	NUMBER: 0901360010B	
	DATE: 1/3/1985	
FLOODING SOURCE: MIDDLE RESERVOIR		APPROXIMATE LATITUDE & LONGITUDE OF PROPERTY: 41.849730, -71.808295 SOURCE OF LAT & LONG: LOMA LOGIC DATUM: NAD 83

DETERMINATION

LOT	BLOCK/ SECTION	SUBDIVISION	STREET	OUTCOME WHAT IS REMOVED FROM THE SFHA	FLOOD ZONE	1% ANNUAL CHANCE FLOOD ELEVATION (NGVD 29)	LOWEST ADJACENT GRADE ELEVATION (NGVD 29)	LOWEST LOT ELEVATION (NGVD 29)
--	--	--	1496 Hartford Pike	Portion of Property	C	--	--	566.4 feet

Special Flood Hazard Area (SFHA) - The SFHA is an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood).

ADDITIONAL CONSIDERATIONS (Please refer to the appropriate section on Attachment 1 for the additional considerations listed below.)

LEGAL PROPERTY DESCRIPTION PORTIONS REMAIN IN THE SFHA ZONE A	STATE LOCAL CONSIDERATIONS

This document provides the Federal Emergency Management Agency's determination regarding a request for a Letter of Map Amendment for the property described above. Using the information submitted and the effective National Flood Insurance Program (NFIP) map, we have determined that the described portion(s) of the property(ies) is/are not located in the SFHA, an area inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood). This document amends the effective NFIP map to remove the subject property from the SFHA located on the effective NFIP map; therefore, the Federal mandatory flood insurance requirement does not apply. However, the lender has the option to continue the flood insurance requirement to protect its financial risk on the loan. A Preferred Risk Policy (PRP) is available for buildings located outside the SFHA. Information about the PRP and how one can apply is enclosed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Luis V. Rodriguez, P.E., Director
Engineering and Modeling Division
Federal Insurance and Mitigation Administration



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP AMENDMENT DETERMINATION DOCUMENT (REMOVAL) ATTACHMENT 1 (ADDITIONAL CONSIDERATIONS)

LEGAL PROPERTY DESCRIPTION (CONTINUED)

BEGINNING at a Concrete monument in the northerly highway line of Hartford Pike (Route 101), said monument being the southwest corner of the herein described parcel; Thence N 19°32'49" E for a distance of 48.93' to a point; Thence N 14°15'47" W for a distance of 71.94' to a point; Thence N 31°04'48" W for a distance of 129.31' to a point; Thence N 04°57'39" E for a distance of 232.92' to a point; Thence N 18°56'12" E for a distance of 99.96' to a point; Thence S 71°26'08" E for a distance of 57.20' to a point; Thence S 05°41'46" W for a distance of 138.82' to a point; Thence S 13°24'09" E for a distance of 53.67' to a point; Thence S 17°09'15" W for a distance of 162.85' to a point; Thence S 22°37'59" E for a distance of 40.42' to a point; Thence S 35°03'13" E for a distance of 47.20' to a point; Thence S 15°26'09" E for a distance of 65.16' to a point; Thence S 22°02'00" W for a distance of 56.84' to a point in the northerly highway line of Hartford Pike (Route 101); Thence in a westerly direction 28.17' along a curve to the right having a radius of 1,870.08', (the chord of said curve being N 85°01'55" W, 28.17') to the POINT OF BEGINNING

PORTIONS OF THE PROPERTY REMAIN IN THE SFHA (This Additional Consideration applies to the preceding 1 Property.)

Portions of this property, but not the subject of the Determination/Comment document, may remain in the Special Flood Hazard Area. Therefore, any future construction or substantial improvement on the property remains subject to Federal, State/Commonwealth, and local regulations for floodplain management.

ZONE A (This Additional Consideration applies to the preceding 1 Property.)

The National Flood Insurance Program map affecting this property depicts a Special Flood Hazard Area that was determined using the best flood hazard data available to FEMA, but without performing a detailed engineering analysis. The flood elevation used to make this determination is based on approximate methods and has not been formalized through the standard process for establishing base flood elevations published in the Flood Insurance Study. This flood elevation is subject to change.

STATE AND LOCAL CONSIDERATIONS (This Additional Consideration applies to all properties in the LOMA DETERMINATION DOCUMENT (REMOVAL))

Please note that this document does not override or supersede any State or local procedural or substantive provisions which may apply to floodplain management requirements associated with amendments to State or local floodplain zoning ordinances, maps, or State or local procedures adopted under the National Flood Insurance Program.

This attachment provides additional information regarding this request. If you have any questions about this attachment, please contact the FEMA Map Information eXchange (FMIX) toll free at (877) 336-2627 (877-FEMA MAP) or by letter addressed to the Federal Emergency Management Agency, Engineering Library, 3601 Eisenhower Ave Ste 500, Alexandria, VA 22304-6426.

Luis V. Rodriguez, P.E., Director
Engineering and Modeling Division
Federal Insurance and Mitigation Administration

Killingly Engineering Associates

Civil Engineering & Surveying



P.O. Box 421 Killingly, CT 06241
Phone: 860-779-7299
www.killinglengineering.com

November 18, 2020

Proposed Residential Development

Richard R. O'Keefe
1496 Hartford Pike (Route 101)
Killingly, CT

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:

\$100.00 (base fee)

\$ 60.00 (State fee)

\$160.00 Total Fee

2. 3- full sized sets of plans & 1- 11 x 17 reduction set– Dated: 11/17/2020
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Soil Scientist Delineation Report
7. Nitrogen renovation calculation and drainage area map
8. Web Soil Survey Map
9. GIS mapping
10. Applicant's Certification
11. Letter of Map Amendment (LOMA) dated: 11/9/2020