

Brooklyn Inland Wetlands Commission
Regular Meeting Agenda
Tuesday, March 12, 2024
Zoom and In-Person Meeting
Clifford B. Green Memorial Center
69 South Main Street
6:00 p.m.

In-Person: Clifford B. Green Memorial Center, 69 South Main Street, Brooklyn, CT	
Online: Click link below: Video call link: https://meet.google.com/mik-vrcf-btd	Dial: (US) +1 484-816-5118 PIN: 898 073 074# OR More Phone numbers: https://tel.meet/mik-vrcf-btd?pin=6348193185163

Call to Order:

Roll Call:

Staff Present:

Seating of Alternates:

Public Commentary:

Additions to Agenda: None.

Approval of Minutes: Regular Meeting Minutes February 13, 2024

Public Hearings:

1. **IWWC 23-015 LAC Properties, owner/applicant; Map 41 Lot 1; Providence Road, PC Zone;** Proposal to fill wetlands to level site for development of a commercial building, driveways and septic system. Proposed fill equals 8,900 sf; total regulated area altered equals 64,000 sf / 1.5 acres.

Old Business:

1. **IWWC 23-015 LAC Properties, owner/applicant; Map 41 Lot 1; Providence Road, PC Zone;** Proposal to fill wetlands to level site for development of a commercial building, driveways and septic system. Proposed fill equals 8,900 sf; total regulated area altered equals 64,000 sf / 1.5 acres.

New Business:

1. **IWWC 24-001 Paul Pagnozzi, owner/applicant; 113 Hartford Road; Map 24, Lot 74, VC Zone;** Proposed concrete slab for a 24' x 32' manufactured home. No work is proposed in the wetlands.
2. **DR 24-001 Brian Meehan, owner; Chris Casadei LLC, applicant; Old Tatnic Hill Road and Tripp Hollow Road ; Map 14 Lots 2, 8, 10, 10-1, 10-19, 10-56, 10-59, and 10-65; RA Zone;** Selective Timber Harvest.
3. **IWWC 24-002 Greg Lehto, owner/applicant; 61 Beecher Road, Map 22 Lot 38-5; RA Zone;** Minor grading for a new single-family dwelling in the upland review area. No work is proposed in the wetlands.

Other Business:

1. **IWWC 23-013 Robert & Teresa Ross, owners/applicants; Map 10 Lot 7; Hartford Road, RA Zone;** Proposal to construct single-family home, garage, pole barn, koi pond, and to repair and stabilize a box culvert over Stony Brook. **SHOW CAUSE HEARING for wetlands violation.**
2. **430 Allen Hill Road – Naomi Regis, Moe Lapierre P.O.A.; Map 32 Lot 138.** Informal discussion about clearcutting 20 acres of woodlands and brush to expand agricultural cropland.
3. **17 Greenway Drive – Town of Brooklyn.** Complaint received about riparian vegetation being removed north of the existing boat launch along the bank of the Quinebaug River.

Communications:

1. Wetlands Agent Monthly Report.
2. Budget Update.

Public Commentary:

Adjourn:

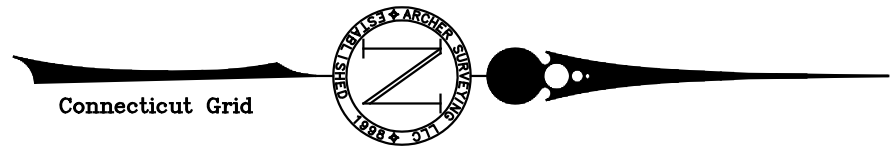
Richard Oliverson, Chairman

LEGEND

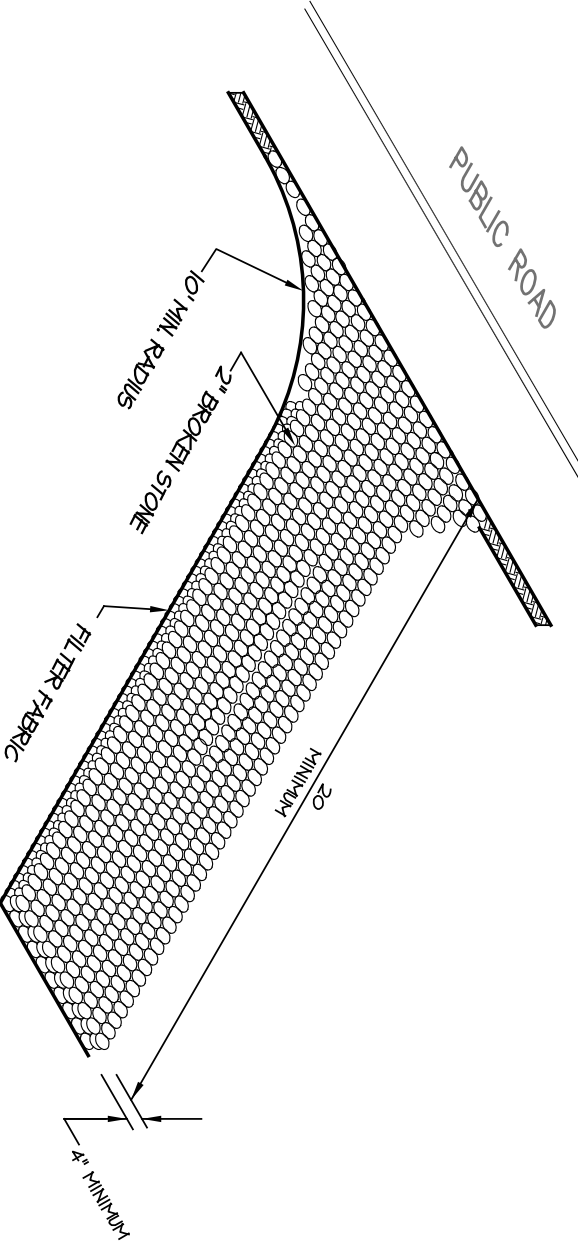
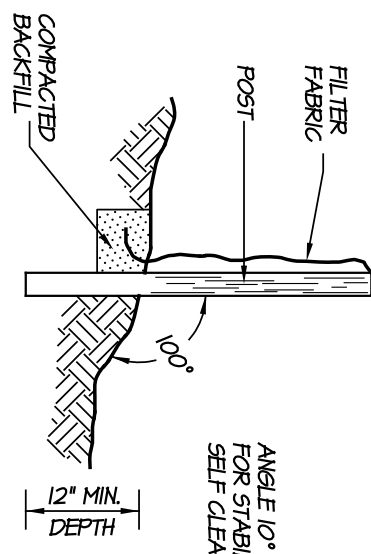
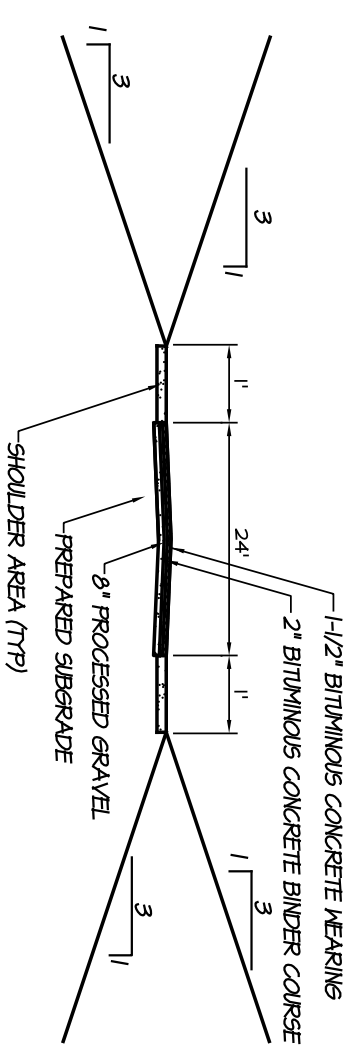
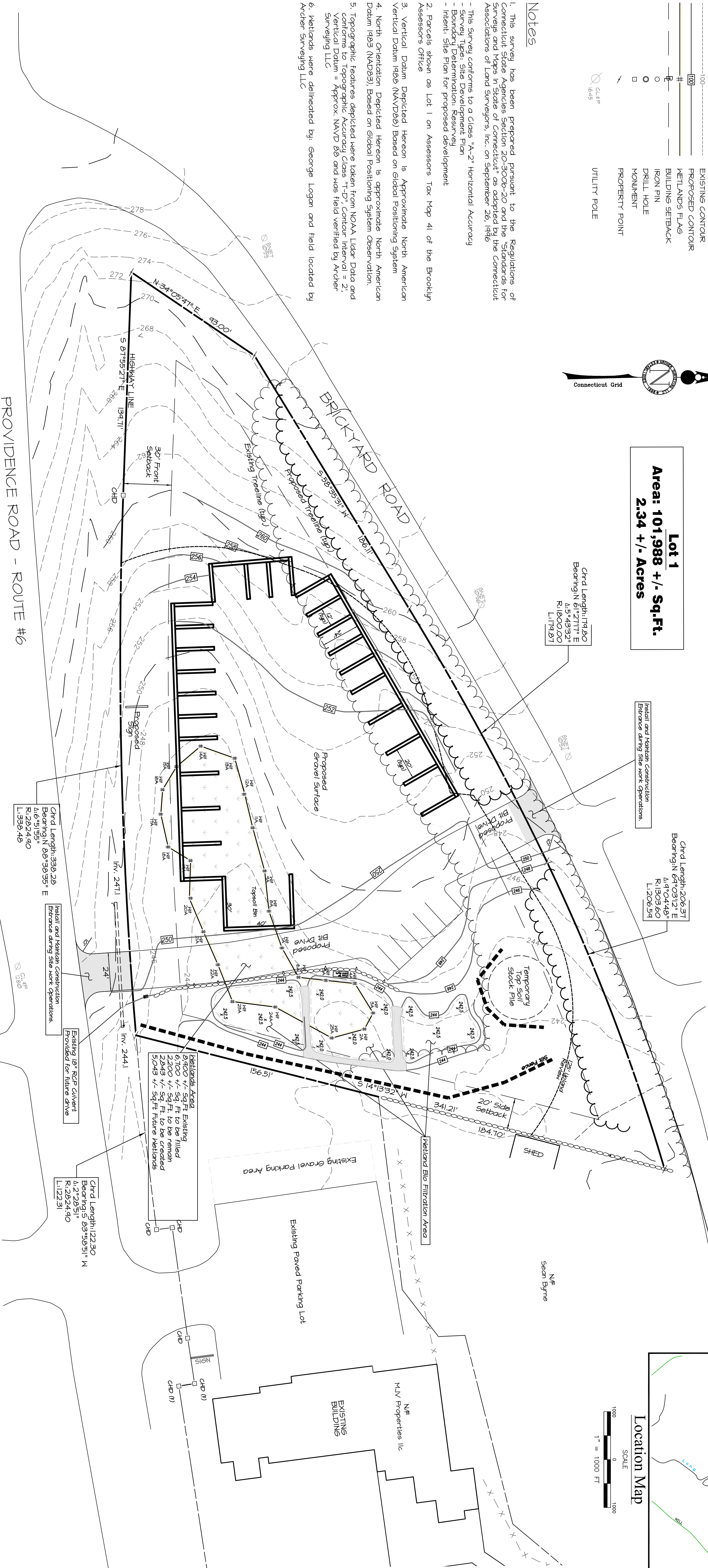
- PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING TREELINE
- PROPOSED CLEARING LIMIT
- SILT FENCE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
- PROPOSED CONTOUR
- KETLANDS FLAG
- BUILDING SETBACK
- IRON PIN
- DRILL HOLE
- MONUMENT
- PROPERTY POINT
- UTILITY POLE

Notes

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Section 20-300b-20 and the "standards for Surveys and Maps in State of Connecticut" as adopted by the Connecticut Associations of Land Surveyors, Inc. on September 26, 1986
 - This Survey conforms to a Class "A-2" Horizontal Accuracy
 - Survey Type: Site Development Plan
 - Boundary Determination: Resurvey
 - Intent: Site Plan for proposed development
- Parcels shown as Lot 1 on Assessors Tax Map 41 of the Brooklyn Assessors Office
- Vertical Datum Depicted Hereon is Approximate North American Vertical Datum 1985 (NAVD85) Based on Global Positioning System
- North Orientation Depicted Hereon is approximate North American Datum 1983 (NAD83). Based on Global Positioning System Observation.
- Topographic features depicted were taken from NOAA Lidar Data and conforms to Topographic Accuracy Class "1-D" Contour Interval = 2' Vertical Datum = Approx NAVD 85 and was field verified by Archer Surveying LLC
- Wetlands were delineated by: George Logan and field located by Archer Surveying LLC



Lot 1
Area: 101,988 +/- Sq.Ft.
2.34 +/- Acres



To my Knowledge and Belief this Map is substantially Correct as stated hereon.

01/13/2024

Paul M. Archer LLS #10013

Archer Surveying LLC

DAVID A. SMITH, P.E. #4175

01/13/2024

DATE

Subject Parcel Information

Owner: LAC Properties LLC

Parcel Address: Providence Road, Brooklyn, CT

Mailing Address: LAC Properties LLC

4 Greene Lane, Thompson CT

Parcel ID: Map 41 / Lot 1

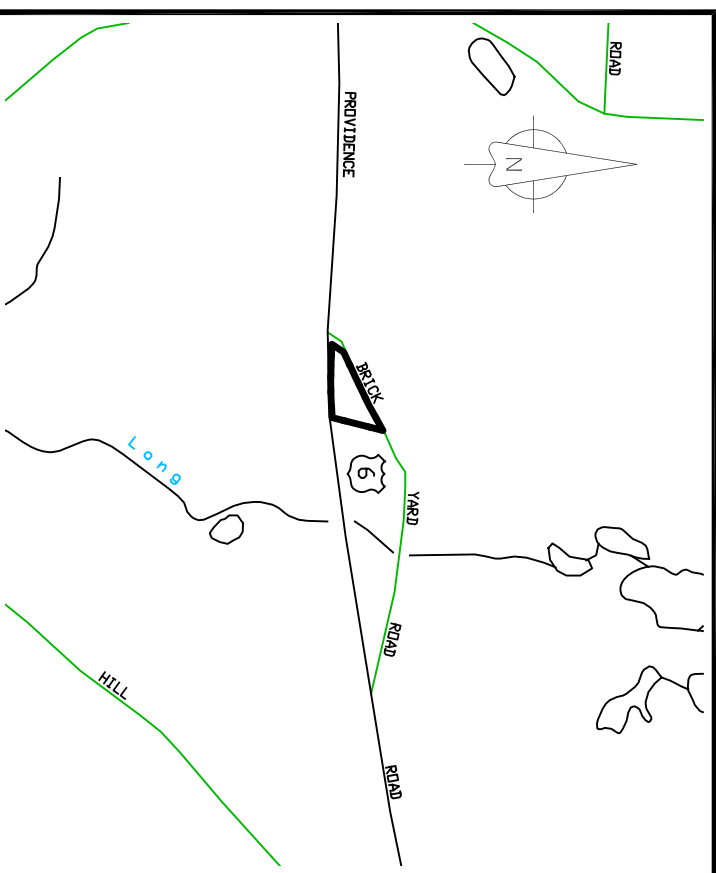
Deed: Vol. 480 / Pg. 21

Zone: FC "Planned Commercial"

I have reviewed the inland-wetlands shown on this plan and believe them to be substantially correct as those which I delineated in the field.

George Logan, MS, PMS, CSE

REVISIONS	
DATE	DESCRIPTION
01/09/24	Misc
01/30/24	Redesign
02/02/24	Comments
02/13/24	Misc.
02/23/24	Misc.



Location Map

SCALE

1" = 1000 FT

Site Development Plan

Prepared For:

LAC Properties LLC

Providence Road

Brooklyn, Connecticut

ARCHER SURVEYING LLC

18 Providence Road, Brooklyn, CT

(860) 779-2240 / (860) 928-1921

LOUIS J. SOJA, JR.

ARCHER - ENGINEER - SITE PLANNER

LAC ARCHER-LAC ENGINEER

Sheet No. 1 OF 2

Project No. AS 202

Date: November 29, 2023



18 Providence Road, Brooklyn CT 06234
Phone: 860-779-2240 / 860-928-1921 Fax: 860-779-2240

DAS 2/16/24

**LAC Outdoor Landscape Products Center
Route 6, Brooklyn, CT**

Proposed Stormwater Management Plan

Overview –

Provide a recharge system consisting of three shallow Wetland Bio-Retention basins located in the easterly portion of the project, with the goal of improving water quality from the runoff generated by the impervious cover and provide addition detention time to aid in ground water recharge. The northerly and southerly basins will be flat bottom basins 6" higher than the central basin. These will be separated by a porous stone berm providing a modest flow restriction to water movement from the outer basins further aiding the filtration and the opportunity for natural groundwater recharge.

The proposed improvements include a paved driveway and parking area totally about 6600 sf. and a gravel yard with pre-cast concrete block bins for the storage and retail sale of landscape materials such as sand, gravel, river rock, compost, bark mulch, topsoil and other related earth products. The grading is such that the bins will function to retain these materials and keep them from being co-mingled.

The property is a localized low spot between Route 6 and Brickyard Road at the westerly intersection of these two roads. The State of Connecticut maintains a swale and culvert that intercepts runoff from the highway. A portion of Brickyard Road flows onto the property at the northeast corner, generally beyond any of the proposed activities.

Drainage –

Using the discharge from the proposed center Bio Retention Basin as point of analysis we have:

A= 2.4 acre watershed

Cp = 0.3 mostly vegetated with grass and some woody shrub and trees

Cf = 0.48 {weighted composite of 0.2 ac paved @ 0.9, 0.8 ac gravel @ 0.7, 1.4 ac remaining grass, vegetated wetlands @0.3}

Using available rainfall intensity / duration charts, we can calculate the potential increase in runoff related to the change in cover type from pre to post development as

$$\Delta Q = \Delta C \times I \times A$$

For intense short duration storms such as 10 min 2-year storm, we expect

$$\Delta Q = 0.18 \times 3.39 \text{ iph} \times 2.4 \text{ ac} = 1.46 \text{ cfs or a net of 878 cu. ft. for this event}$$

We use this data to size components such as piping and channels, but this project has neither of these elements.

Longer duration storms such as 24 hour storms provide a better insight into the anticipated condition due to slow moving fronts. The lesser intensity but over the extended duration provide sizing requirement for storage and recharge features.

2 yr – 24 hour duration Storm – 3.37” in 24 hours or 0.140 iph

$$\Delta Q = 0.18 \times 0.140 \text{ iph} \times 2.4 \text{ ac} = 0.06 \text{ cfs or 5225 cu. ft. for this event}$$

25 yr – 24 hour duration Storm – 6.09” in 24 hours or 0.254 iph

$$\Delta Q = 0.18 \times 0.254 \text{ iph} \times 2.4 \text{ ac} = 0.110 \text{ cfs or 9504 cu. ft. for this event}$$

100 yr – 24 hour duration Storm – 7.70” in 24 hours or 0.321 iph

$$\Delta Q = 0.18 \times 0.321 \text{ iph} \times 2.4 \text{ ac} = 0.139 \text{ cfs or 12,010 cu. ft. for this event}$$

Storage –

Volume provided in Basin C1 = 900 sf x 1.5ft = 1350 cu ft.

Volume provided in Basin C2 = 1400 sf x 1.5ft = 2100 cu. ft.

Volume provided in Basin A = 2200 sf x 2.0ft = 4400 cu. ft

Total 7850 cu ft.

Straight comparison of the volume generated and the volume required without infiltration we see, the 2 year is acceptable, the 25 year is almost fully accommodated but the 100 year storm will be in sufficient without some accounting for infiltration. These basins are not intended to be water tight. They are located in Hinckley Soils with permeabilities ranging from 6 to greater than 20 inches per hour.

Recharge -

The 100 year storm will be our worst case scenario. Converting the 0.139 cfs to 500 cf per hour and applying that over the 4500 sf of bottom area for the three basins we need to infiltrate approximately 0.11 ft or 1.3” per hour. This is clearly less than the most conservative permeability rate for these soils.

Water Quality –

Using the Stormwater Manual we find particular emphasis on the first 1" of precipitation regardless of how fast it is delivered is a good indicator that the 'first flush' has been accommodated. Suspended solids, dissolved solids, organic and inorganic materials are generally captured in the flow and if not delivered directly to a receiving stream can be filtered, absorbed and adsorbed onto intermediate media. This process is similar to the natural cleansing provided by naturally occurring wetlands. On this site this wetland function has been severely reduced if not eliminated due to its history as a construction staging area. The proposed wetland Bio – Retention areas have been provided to help improve this function, as well as groundwater recharge and retainage.

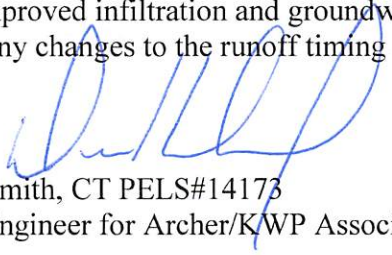
1" of rainfall delivered to the 1.0 acre that will be converted from existing grass to pavement or gravel surface will result in a water quality volume of 3630 cu. ft which will be directed to Area C1 and C2 with an available volume of 3450 cu.ft. which is 95% of the calculated water quality volume. Recharge and flow into Area A is significant and easily accommodate the 5% excess.

The soil media for all three Bio-Retention areas is specified to be loamy topsoil with a minimum of 25% composted organic matter. This provides excellent nutrient removal and solid retention. The vegetation specified further include a wide variety of wetland and wet soil tolerant plants and shrubs, with the expectation that regardless of the specific micro-climate and variation of the water regime, each of these species will thrive in their unique habitats making a strong colony of desirable species and prevent undesirable plant species from invading this newly environment.

This project does not have any directly connected impervious surfaces to the Municipal Separate Storm Sewer System, and provides measures to retain and improve run-off before it leaves the property. There are no existing illicit discharges and of course, none are anticipated.

Conclusion –

The current proposal includes provision to enhance retention, recharge, habitat and cleansing function of a low functioning wetland impacted by the creation of this retail facility. It is my professional opinion that there will be no off-site environmental impacts resulting from the installation of temporary control measures during construction, such as anti-track construction entrances, topsoil stockpile(s), siltation barriers and attendance to the construction sequencing provide. Additionally, the permanent enhancements provided by the Bio-Retention basin will result in improved infiltration and groundwater recharge over the current condition and will moderate any changes to the runoff timing and quality due to this new use.


David A. Smith, CT PELS#14173
Principal Engineer for Archer/KWP Associates



NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEERING REVIEW PERTAINING TO WETLANDS PERMIT APPLICATION FOR LAC PROPERTIES, LLC PROVIDENCE ROAD (ROUTE 6) (ASSESSOR'S MAP 41, LOT 1) BROOKLYN, CT (January 30, 2024)

The comments contained herein pertain to my review of plans (2 sheets) and supporting documentation, which is for the construction of onsite storage bins and removal of 7,700 square feet of wetland for a driveway and storage bin area. The plan was prepared by Archer Surveying, dated November 29, 2023, with revision date of January 30, 2024, for LAC Properties, LLC.

Sheet 1 of 2 – Site Development Plan

1. If large construction type equipment is to be parked overnight on the property an adequate number of parking spaces need to be added to the plan to accommodate them. Where will commercial heavy vehicles park, e.g. 10-wheel dump trucks, tri-axes, etc.? **Equipment can be parked in front of Bins** As submitted, the plan only shows parking spaces deep enough for automobiles and pickup trucks. **For Staff & Customer Parking**
2. Additional plantings are needed along Brickyard Road where the existing natural buffer will be reduced and also along the side property line of the Byrne property. This is to compensate for removal of low bush varieties that currently provide a visual and aural buffer to residential properties abutting the proposed development. Additionally, a landscape buffer is needed along Route 6 to screen the view of the bays and materials that will be stockpiled there. **Keeping existing tree line along Brickyard Road between bins and road**
3. What is the daily estimated number of trips in and out of the proposed development? **Estimate 20-50 average, but actual will vary throughout the week and of course seasonally**
4. What will be the daily hours of operation and days of week that the site will be open for business? **7 Days per Week 7am to 7pm**
5. What materials will be stored and sold on site? **Earth materials such as Stone, Compost, Top Soil, Mulch and similar products**
6. How will on-site employees and surrounding neighbors be protected from dust that is generated from dumping landscape materials and the vehicles operating on unpaved earth product surfaces? **Paved driveway and parking, gravel surfaced central area, Existing trees, grass areas and wetland plantings surrounding the active area.**
7. A detail for construction of a typical bay needs to be included in the plan showing components to construct it, maximum height, etc. **Bins will be precast units set on prepared base and stacked as per manufacturers design.**
8. How will sanitary facilities and drinking water be provided to employees working at this business? **If a building is not part of the initial site plan submission to PZC, sanitary facilities such as a Port-o-Let will be provided**
9. The "Paved Driveway Detail" shows 2" bituminous concrete for a wearing surface. This is insufficient for heavy construction equipment and the thickness needs to be increased to resist tearing, rutting, cracking, etc. that can be caused by such vehicles. Special precautions must be exercised where the driveway will be constructed over wetland soils, if it is actually built there. **detail revised**
10. Where will a business sign be located and will it be illuminated? **Shown on Plan not illuminated**

11. In the Overview section of the “Proposed Storm Water Management Plan,” it is stated that there are two (2) rain gardens in the proposed development; however, there are no rain gardens noted on the plan. Where are they located? **report has been revised**
12. The “Wetland Area” note is confusing. The impacted wetland area needs to be delineated with a cross-hatch symbol and, additionally, the note be made more precise on what it is supposed to communicate. Furthermore, the “expanded wetland” area needs to be delineated on the plan with a different cross-hatch symbol to establish its location. **Shown on Plan**
13. The area of the wetland needs to have the flagging shown on the plan in place on the site for any site visit that may be scheduled. **Shown on Plan**
14. The “Wetland Bio Filtration Area” needs to be labeled properly with the aggregate area and storage volume added to the plan. **Shown on Plan**
15. Each “Rain Garden” needs to be labeled on the plan along with the bottom areas. **No Rain Garden**
16. A portion of the “Modified Rip Rap Stone Berm” and two of the storm water management basins are shown constructed within the 20’ side yard setback. This portion of the berm and basins need to be moved out of the setback area since they are a permanent structure no different than the walls of a cement block bin having to be outside of a setback area. The setback line in this area needs to be identified in the field during construction with multiple stakes to avoid intrusion into it. **Not a Structure**
17. Access to the property should be restricted to the Brickyard Road entrance to eliminate the danger of a vehicular accident involving heavy vehicles slowing down and stopping to enter this property from Providence Road (Route 6). **Commercial Building in the Planned Commercial District should be entering & exiting from State Highway**
18. Will the entrance to the property be gated? If so, the gate needs to be added to the plan. **No Gate**
19. CT DOT District 2 will need to review this plan for the entrance/exit onto Route 6. Has this been submitted for their review and approval? **Plans will be sent to DOT, driveway entrance exists**
20. The professional engineer’s and land surveyor’s seals need to be affixed to the plan. **Done**

Sheet 2 of 2 – Site Development Plan

1. The “Rain Gardens” and “Wetland Bio Filtration Area” need to be labeled properly on this plan and the bottom area noted, to avoid confusion. As presented, the entire area is mistakenly labeled as the filtration area. **Done**
2. A detail is needed for the “Modified Rip Rap Stone Berm” to see how it is to be constructed. **Additional details have been provided, location is approximate and will be 'field fit' at the time of construction.**
3. If the “Berm” is constructed without a solid high impermeability core, how will the adjacent property to the east be impacted from the concentrated overflow of ponded water? **Side Basin will flow into center basin, center basin to existing discharge point. No change to flow path is anticipated**
4. The section lines in the plan view of the storm water collection areas need to be labeled more precisely to key into the “Section: Enhanced Wetlands Recharge Area” at the bottom of the sheet, e.g., Section A – A. **Details provided, section lines not necessary**
5. The professional engineer’s seal needs to be affixed to the plan. **Done**

Proposed Storm Water Management Plan

1. Why is there a distinction made between the “Rain Gardens” and the “Wetland Bio Filtration Area?” Why not just call for a retention basin to infiltrate collected water into the underlying ground or call for one huge rain garden? **Reference removed from revised report**
2. In the “Rain Garden Considerations” section of the “Plan,” the second paragraph states it includes *roof surfaces*. There are no building roofs shown on the site plan, Sheet 1 of 2. Does the 9,000 square foot impervious area noted in this paragraph include a roof surface? **Revised to remove reference to roof areas**

3. In the "Rain Garden Considerations" section of the "Plan," the second paragraph also states that there are two (2) rain gardens (750 square feet each) included in the proposed development to manage storm water containing suspended solids and nutrients. The rain gardens need to be labeled properly with bottom area on Sheets 1 & 2 of 9 to avoid confusion as to where they are to be located. **See Revised report**
4. If the "Rain Gardens" are incorporated into the site design to help filter suspended solids from storm water runoff, how is the "Wetland Bio Filtration Area" protected from unimpeded flow of suspended solids from a site that is likely to have stockpiles of landscaping materials that may shed suspended solids? This is not made clear in the "Plan." Is a permanent silt sock needed across its entire western edge to protect it? **Areas c1 and c2 will capture any suspended solids**
5. The Professional Engineer who prepared this report needs to add his seal to the cover page of this document. **Done**

Additional Comments

1. A professional engineer's "Drainage Report" is required for this project to show the adequacy of the storage volumes of the "Rain Gardens" and "Wetland Bio Filtration Area" for different storm frequencies and impact on the wetland. No drainage report was submitted for review. **Done**
2. The "Drainage Report" needs to include what is required in Zoning Regulation 7.H.3. **Done**
3. The "Drainage Report" shall include a statement regarding the project's impact with respect to MS4. **Done**

By: *Syl Pauley, Jr., P.E.*
Syl Pauley, Jr., P.E., NECCOG Regional Engineer

Margaret Washburn

From: George Logan <rema8@aol.com>
Sent: Tuesday, March 05, 2024 10:28 AM
To: Margaret Washburn
Cc: PAUL ARCHER; Dave Smith
Subject: Re: LAC property Route 6 Brooklyn
Attachments: PhotoLog-1and2.pdf; PhotoLog-3and4.pdf; LAC Site Plan Rev 2-23-24.pdf

Margaret,

Yes! Did three pits. One in roughly in the middle "cell," one in the left (northern), and also went to the young woods within the northeast corner.

The first had saturation to the surface and very dense fill at 18 inches or so (this is from memory).

The next had newer fill (topsoil) over older mix of topsoil and subsoil fill, very dark/gray, with some angular coarse fragments (remnant "gravel" from DOT?), with some redox at 39-40 inches, moist (not surprising after the rain the previous day). The woods pit was interesting. Loamy fine to medium sand at depth, with prominent redox (HCM and LCM) beginning at about 38 (?). So this is well drained, and the surface is at about the same elevation as TH-1. This leads to believe (and confirm) that the existing wetlands are perched on dense/compacted fill materials left behind after this area was used by DOT.

So, the moral of the story is that in order to create wetlands in the three cells we need to create a new perched water table. This I have done successfully before at several locations, inducing at the Tractor Supply Center (Windham, Route 6), by bringing in 12 inches of loamy topsoil with no less than 15% OM. We laid the first six inches down and tracked to compact with heavy equipment. Then laid the next six inches on top, no tracking. It has worked like a charm. The actual water table is 3.5 feet below the bottom of this "basin", which was determine by piezometers and data logging. I can provide data and pics for that one.

I also did one in Enfield (in process; to be planted this year). Again, perched water table on well drained outwash soils (see attached photos). In this case we used a silty clay loam liner. This actually might be a better way to ensure hydrology, and with the higher OM topsoil, but not tracked.

Paul will not be at the meeting this coming week, and I am not sure if his assistants (daughter?) will be able to revise the plans with my edits/additions. However, I will generate a report, detailed mitigation implementation notes, and planting materials tables, and include the data from the three soil Test Pits, at least by Friday (hopefully by tomorrow), so you can pass along. Dave Smith should be there and so will I, hopefully in person.

I also attach an annotation (not official) of the plans with my take on what will be created (green shaded) as wetlands. The total impact to wetlands is the 8,900 sf, while total wetland creation is +/- 5,380 sf. We also have X-sf of "wetland buffer habitat", which is the hatched area on the plan (Area B).

Best,
George

George T. Logan, MS, PWS, CSE

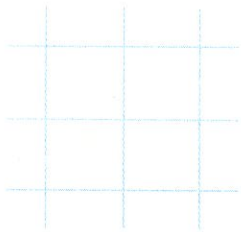
REMA Ecological Services, LLC

43 Blue Ridge Drive, Vernon, CT 06066

860-649-REMA (7362) (O) 860-883-8690 (C)

NOTE: Our office has moved from Manchester to Vernon, CT

On Tuesday, March 5, 2024 at 08:56:04 AM EST, Margaret Washburn <m.washburn@brooklynct.org> wrote:



Hi George,

Were you able to do any additional field work since we spoke last week, please?

Margaret Washburn

ZEO/WEO/Blight Enforcement Officer

69 South Main Street, Suite 23


Brooklyn, CT 06234

(860) 779-3411 ext. 31

Mon. – Thurs. 8:00 am – 3:30 pm

m.washburn@brooklynct.org

	SITE/LOCATION: Providence Road & Brickyard Road Brooklyn, CT	REMA JOB NO.: 23-2658-BKY3	ANNOTATED PHOTO LOG
	INVESTIGATOR(S): George T. Logan, MS, PWS, CSE		
DATE: October 2, 2023	FACING: SOUTHERLY	PHOTO NO.: 1	
		Comments: Preparation for the creation of a wetland on well drained soils at 29 Moody Road, Enfield, CT, by providing for a perched water table	

DATE: October 2, 2023	FACING: N/A	PHOTO NO.: 2	
		Comments: To create the perched water table, 10 inches of silty clay loam were utilized below the topsoil layer for the created wetland	

	SITE/LOCATION: Providence Road & Brickyard Road Brooklyn, CT	REMA JOB NO.: 23-2658-BKY3	ANNOTATED PHOTO LOG
	INVESTIGATOR(S): George T. Logan, MS, PWS, CSE		
DATE: October 12, 2023	FACING: NORTHERLY	PHOTO NO.: 3	
		Comments: Wetland basin after completion and before planting, at 29 Moody Road, Enfield, CT; inundation is about 5 to 6 inches in depth; maximum depth of 8 inches is controlled by the underlying silty clay loam liner.	

DATE: March 4, 2024	FACING: N/A	PHOTO NO.: 4
		Comments: T

Killingly Engineering Associates

Civil Engineering & Surveying



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

February 15, 2024

Proposed Single Family Home

Paul Pagnozzi
113 Hartford Road (Route 6)
Brooklyn, CT

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:
 \$150 (Base fee)
 \$ 60 (State fee)
 \$210 Total
2. 5- full sized sets of plans dated 2/06/2024
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Web Soil Survey Map
7. GIS mapping
8. Applicant's Certification





INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

8152 App
\$60 State
CK# 0028 \$210.00
Application # IWWC 24-001

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT Paul Pagnozzi MAILING ADDRESS 3 Grove St. North Providence, RI
APPLICANT'S INTEREST IN PROPERTY _____ PHONE: CELL 401-874-1101 HOME: _____
E-MAIL _____

PROPERTY OWNER IF DIFFERENT Same PHONE: CELL: _____ HOME: _____
MAILING ADDRESS _____ EMAIL _____

ENGINEER/SURVEYOR (IF ANY) _____
Killingly Engineering Associates
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS) 113 Hartford Road (Route 6)

MAP # 24 LOT # 74 ZONE VCD TOTAL ACRES 0.914 ACRES OF WETLANDS ON PROPERTY 0.15

PURPOSE AND DESCRIPTION OF THE ACTIVITY
Proposed construction of a concrete slab for a modular home

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED 0 CUBIC YDS _____ SQ FT _____
EXCAVATION PROPOSED 0 CUBIC YDS _____ SQ FT _____
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE ☒ OFF SITE ☐ * STOCKPILE
TOTAL REGULATED AREA ALTERED: SQ FT 6,000 ACRES 0.137

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED):
None Considered - No Wetlands Disturbance is Proposed

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY 0 SQ FT 0 ACRES 0
IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? NO IF YES, WHICH TOWN(S) _____

IS THE ACTIVITY LOCATED WITHIN THE WATERSHED OF A WATER COMPANY AS DEFINED IN CT GENERAL STATUTES 25-32A? No

THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.

NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION.

APPLICANT: Paul Paguzzo DATE _____

OWNER: _____ DATE _____

REQUIREMENTS

☒ STANDARD APPLICATION FEE \$ (\$150) ☒ STATE FEE (\$60) ☒ CHECK # _____

☐ NOTICE OF ACTION PUBLICATION FEE \$ _____ CHECK # _____

☐ PUBLIC HEARING PUBLICATION FEE (\$100) \$ _____ (SUBJECT TO CHANGE DEPENDING ON PAPER) CHECK# _____

☐ SIGNIFICANT ACTIVITY FEE (PUBLIC HEARING) (\$250) \$ _____ CHECK # _____

☒ COMPLETION OF CT DEEP REPORTING FORM

☒ ORIGINAL PLUS COPIES OF ALL MATERIALS REQUIRED - **NUMBER TO BE DETERMINED BY STAFF**

☒ PRE-APPLICATION MEETING WITH THE WETLANDS AGENT IS RECOMMENDED TO EXAMINE THE SCOPE OF THE ACTIVITY

☒ SITE PLAN SHOWING LOCATION OF THE WETLANDS WITH EXISTING AND PROPOSED CONDITIONS.
APPLICANT MAY BE REQUIRED TO HAVE A CERTIFIED **SOIL SCIENTIST IDENTIFY THE WETLANDS.**

☒ COMPLIANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL MANUAL

IF THE PROPOSED ACTIVITY IS DEEMED TO BE A "SIGNIFICANT IMPACT ACTIVITY" A PUBLIC HEARING IS REQUIRED ALONG WITH THE FOLLOWING INFORMATION:

- NAMES AND ADDRESSES OF ABUTTING PROPERTY OWNERS
- ADDITIONAL INFORMATION AS CONTAINED IN IWWC REGULATIONS ARTICLE 7.6

ADDITIONAL INFORMATION/ACTION NEEDED:

APPLICANT REQUESTS AGENT APPROVAL. HOUSE THAT WAS PREVIOUSLY ON THE PROPERTY WAS DEMOLISHED. SEAS ON GRADE REQUIRES MINIMAL DISTURBANCE

OTHER APPLICATIONS MAY BE REQUIRED. CONTACT THESE AGENCIES FOR FURTHER INFORMATION:
APPLICATION TO STATE OF CONNECTICUT DEEP

INLAND WATER RESOURCES DIVISION
79 ELM ST.
HARTFORD, CT. 06106
1-860-424-3019

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MA. 01742
1-860-343-4789

STAFF USE ONLY:

_____ DECLARATORY RULING: AS OF RIGHT & NON-REGULATED USES (SEE IWWC REGULATIONS SECTION 4)

_____ PERMIT REQUIRED:

_____ AUTHORIZED BY STAFF/CHAIR (NO ACTIVITY IN WETLANDS/WATERCOURSE AND MINIMAL IMPACT)

_____ CHAIR, BROOKLYN IWWC

_____ WETLANDS OFFICER

_____ AUTHORIZED BY IWWC

_____ SIGNIFICANT ACTIVITY/PUBLIC HEARING

_____ NO PERMIT REQUIRED

_____ OUTSIDE OF UPLAND REVIEW AREA

_____ NO IMPACT

_____ CHAIR, BROOKLYN IWWC

_____ WETLANDS OFFICER

_____ TIMBER HARVEST

LIST OF AJACENT LAND OWNERS as of 02/15/2024 GIS

**Paul Pagnozzi
113 Hartford Road (Route 6)
Brooklyn, CT**

Job No. 24017

MAP/BLOCK/LOT BROOKLYN	NAME
Map 24, Lot 73	GREGORY MICHAELIDIS 4300 ROSEA LANE MYRTLE BEACH, SC 29588
Map 24, Lot 72B	KYLE Z. SKILLINGS 19 HARRIS AVE. BROOKLYN, CT 06234
Map 24, Lot 68	MICHAEL P. BEVENOUR & CHRISTINE M. BEVENOUR 16 GUNNAR DRIVE BROOKLYN, CT 06234
Map 24, Lot 66	STATE OF CONNECTICUT 450 CAPITOL AVE. HARTFORD, CT 06106
Map 24, Lot 24	TOWN OF BROOKLYN 4 WOLF DEN ROAD BROOKLYN, CT 06234



Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

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 this form in accordance with the instructions on pages 2 and 3 and mail 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

1. DATE ACTION WAS TAKEN: year: _____ month: _____

2. ACTION TAKEN (see instructions - one code only): _____

3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐

4. 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

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Brooklyn

does this project cross municipal boundaries (check one)? yes ☐ no ☐

if yes, list the other town(s) in which the activity is occurring (print name(s)): _____

6. LOCATION (see instructions for information): USGS quad name: Dunston or number: 43

subregional drainage basin number: _____

7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Paul Pagnuzzi

8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 113 Hartford Road (Route 6)

briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: Proposed

construction of a concrete slab for a modular home

9. ACTIVITY PURPOSE CODE (see instructions - one code only): A

10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14

11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):

wetlands: 0 acres open water body: 0 acres stream: 0 linear feet

12. UPLAND AREA ALTERED (must provide acres): 0.1 acres

13. 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



Killingly Engineering Associates

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



February 15, 2024

Paul Pagnozzi
113 Hartford Road (Route 6) & Gunnar Drive
Brooklyn, CT

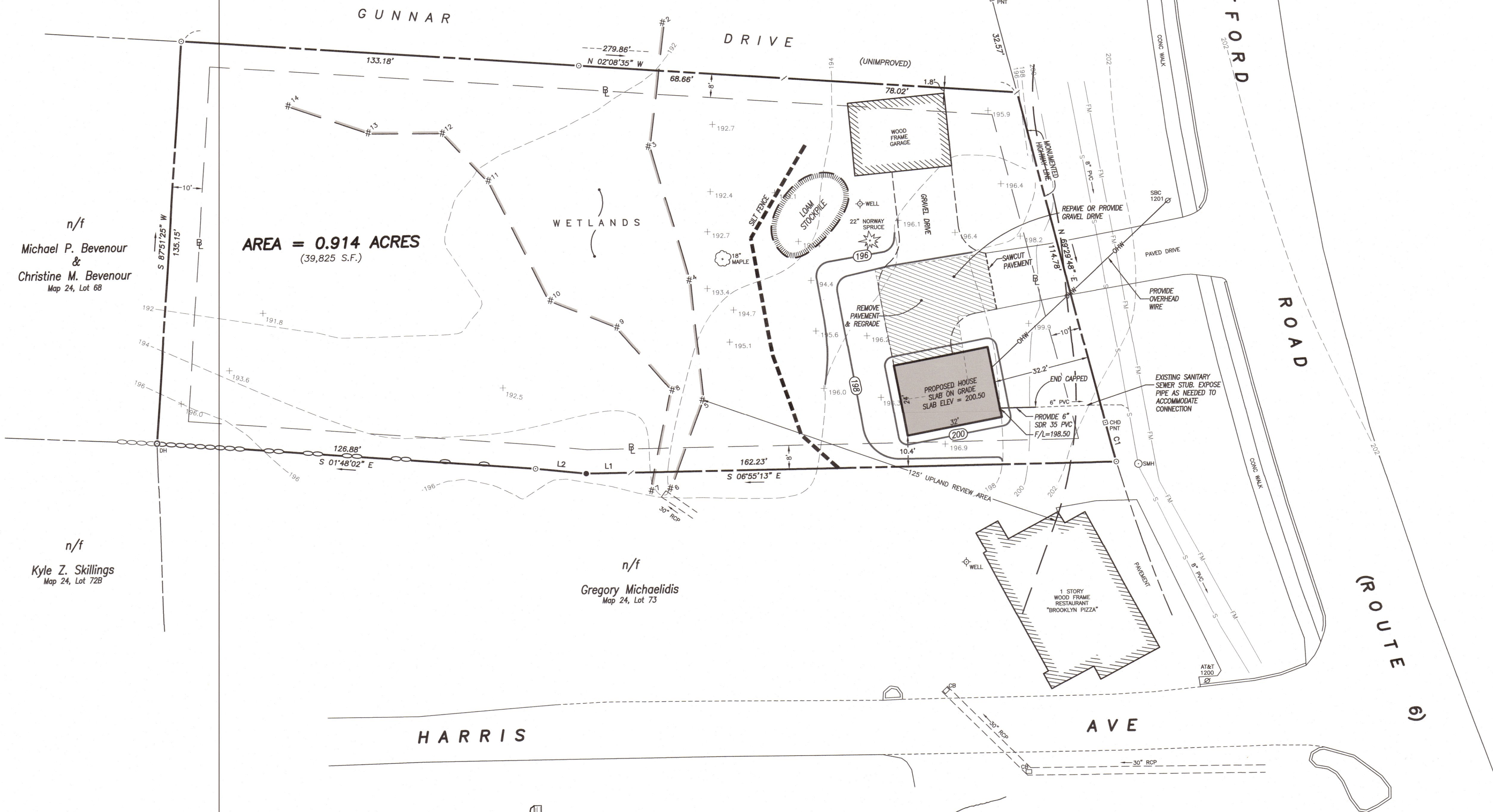
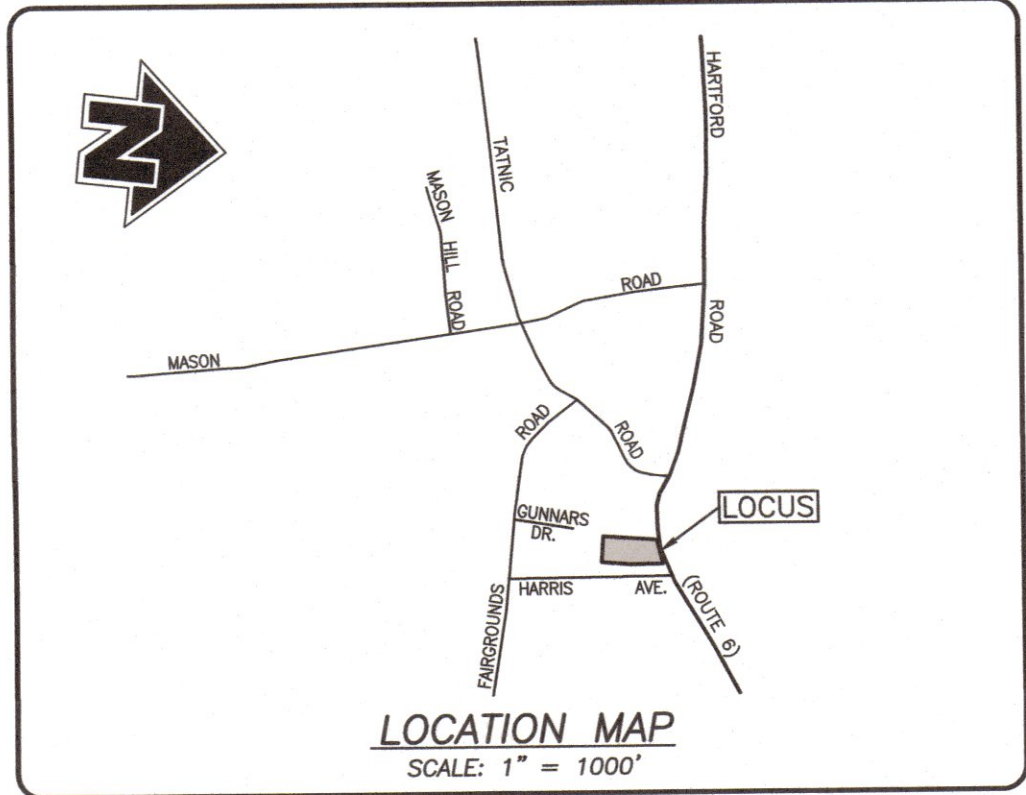
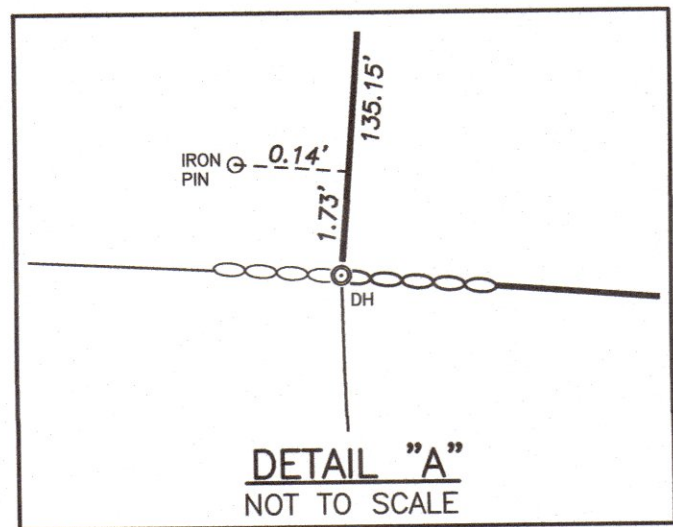
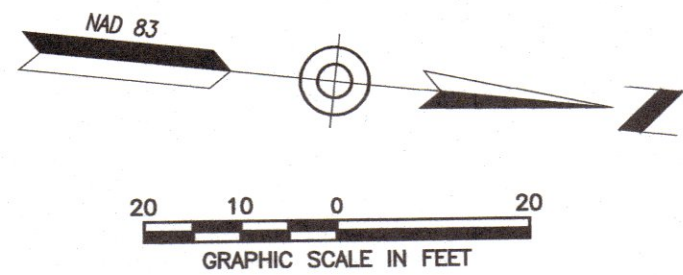
Per Section 7.7 of the Inland Wetland and Watercourses regulations

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 the 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 the adjoining municipality;
- d. Water run-off from the improved site will not impact streets of other municipal or private property within the adjoining municipality.

Applicant

Date



NOTES:

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Resurvey
- Zone = VCD.
- Owner of record: Paul Pagnozzi.
3 Grove St.
North Providence, RI 02911
See Volume 720, Page 250
- Parcel is shown as Lot #74 Assessors Map #24.
- Parcel lies within Flood Hazard Zone "X" (areas of minimal flooding) as shown on FIRM Map #09015C Panel 0237F Effective Date: 9/7/2023.
- Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were delineated in the field by Ian Cole, Certified Soil Scientist, on April/15/2011.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
- Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

MAP REFERENCE:

- "Property Survey - Showing Boundary Line Adjustment and Lot Consolidation Between Lots 67, 73 & 74 - Prepared for - Gregory Michaelidis - Hartford Road (Rte. 6), Harris Ave. & Gunnar Drive - Brooklyn, Connecticut - Scale: 1" = 20' - Date: 2/17/2021 - Prepared by: Killingly Engineering Associates". On file in the Brooklyn Land Records as Map Book 23, Pg. 47.

02/22/2024	PER STAFF REVIEW
DATE	DESCRIPTION
	REVISIONS

LEGEND

- F.F. FINISHED FLOOR
DH IRON PIN FOUND
CHD DRILL HOLE FOUND
PNT CHD MONUMENT POINT
UTILITY POLE
CB CATCH BASIN
MH MANHOLE
SMH SANITARY SEWER MANHOLE
EXISTING CONTOURS
PROPOSED CONTOURS
INLAND WETLANDS FLAG
BUILDING SETBACK LINE
SANITARY SEWER LINE
STONE WALL
STONE WALL REMAINS
SILT FENCE

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE BROOKLYN INLAND WETLANDS COMMISSION.

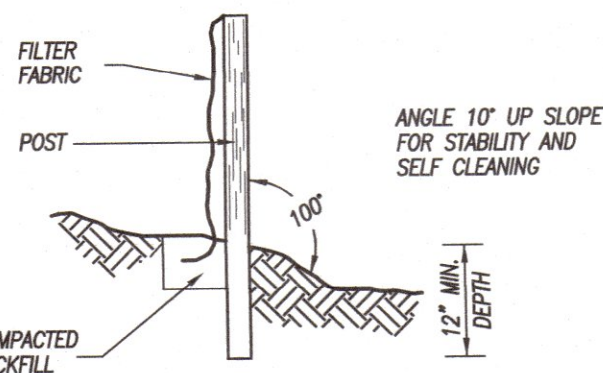
THE APPLICANT WILL CONTACT THE BROOKLYN INLAND WETLANDS COMMISSION OR ITS AGENT AFTER ALL EROSION AND SEDIMENT CONTROL MEASURES ARE INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION ON THE PROPERTY.

ENDORSED BY THE BROOKLYN INLAND WETLANDS COMMISSION

CHAIRMAN DATE

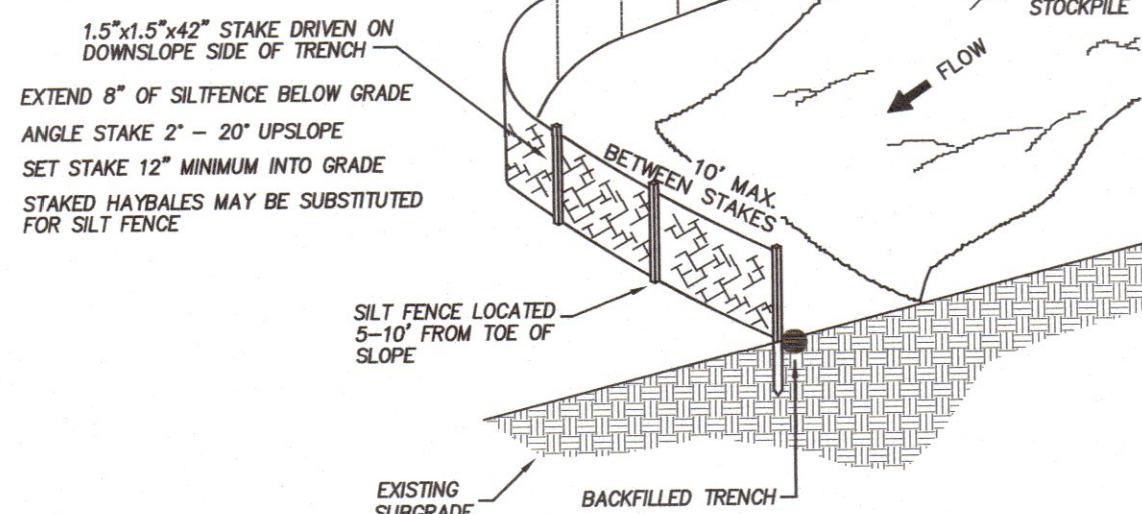
LINE DATA		
LINE	BEARING	DISTANCE
L1	S 06°55'13" E	15.00'
L2	S 00°13'19" E	16.98'

CURVE DATA					
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	480.00'	13.52'	1°36'51"	N 68°40'56" E	13.52'



SILT FENCE

NOT TO SCALE



SILT FENCE @ TOE OF SLOPE APPLICATION

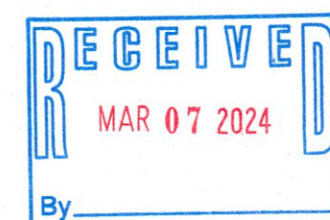
NOT TO SCALE

Normand E. Thibault, Jr.
NORMAND E. THIBAUT, JR., P.E.
LIC #PEN 0022834

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

Greg A. Glaude
GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 2-22-2024

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.



IMPROVEMENT LOCATION SURVEY
SITE DEVELOPMENT PLAN
PREPARED FOR

PAUL PAGNOZZI

113 HARTFORD ROAD (ROUTE 6)
BROOKLYN, CONNECTICUT

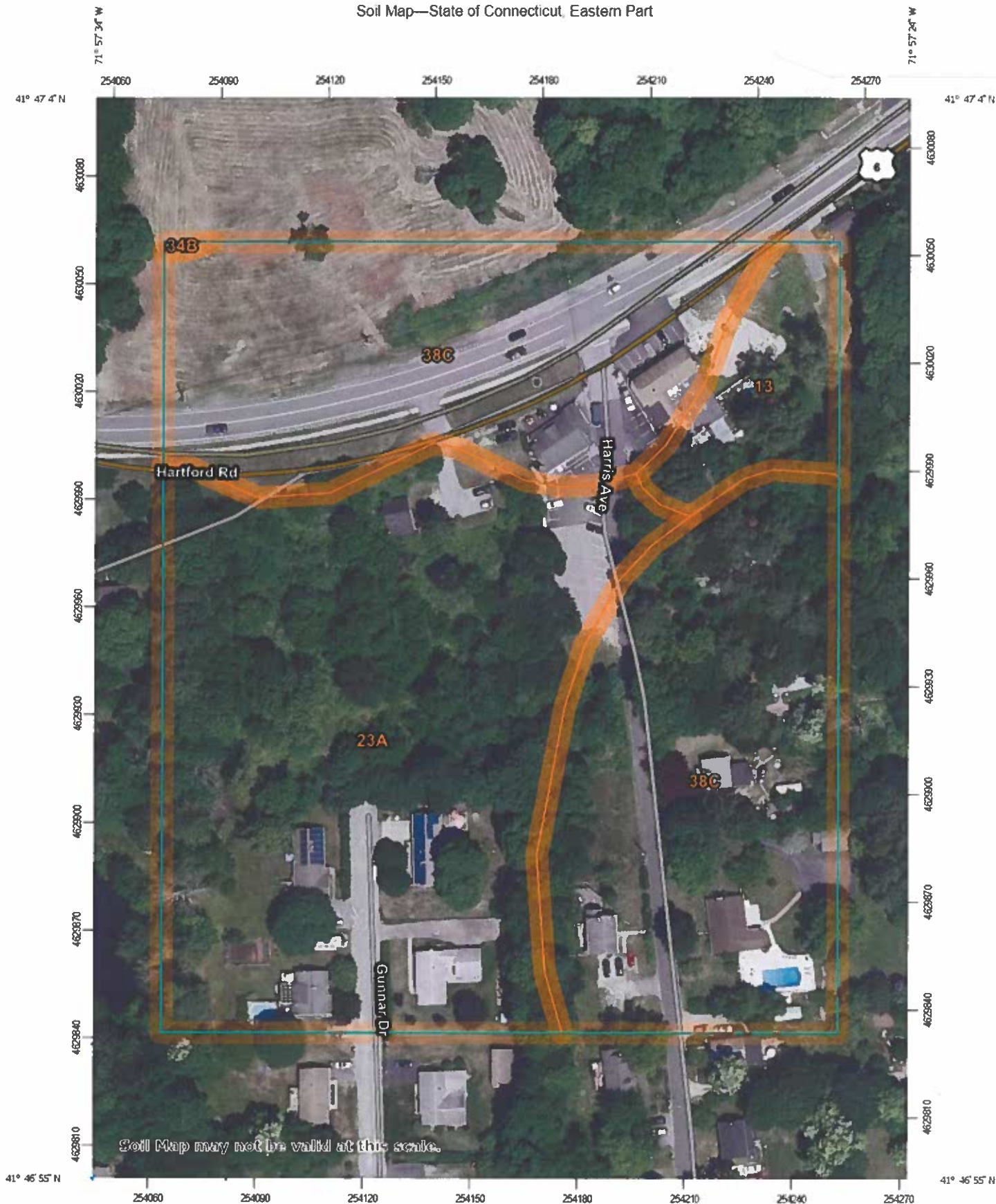


Killingly Engineering Associates
Civil Engineering & Surveying

114 Westcott Road
P.O. Box 42
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 2/06/2024	DRAWN: RGS
SCALE: 1" = 20'	DESIGN: NET
SHEET: 1 OF 1	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 24017

Soil Map—State of Connecticut, Eastern Part



Map Scale: 1:1,470 if printed on A portrait (8.5" x 11") sheet.

0 20 40 80 120 Meters

0 50 100 200 300 Feet

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











































































Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

2/8/2024
Page 1 of 3

MAP LEGEND

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

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, Eastern Part

Survey Area Date: Version 1, Sep 15, 2023

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

Date(s) aerial images were photographed: Jun 14, 2022—Jul 1, 2022

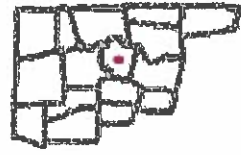
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
13	Walpole sandy loam, 0 to 3 percent slopes	0.6	6.1%
23A	Sudbury sandy loam, 0 to 5 percent slopes	4.5	43.2%
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	0.0	0.1%
38C	Hinckley loamy sand, 3 to 15 percent slopes	5.2	50.7%
Totals for Area of Interest		10.3	100.0%



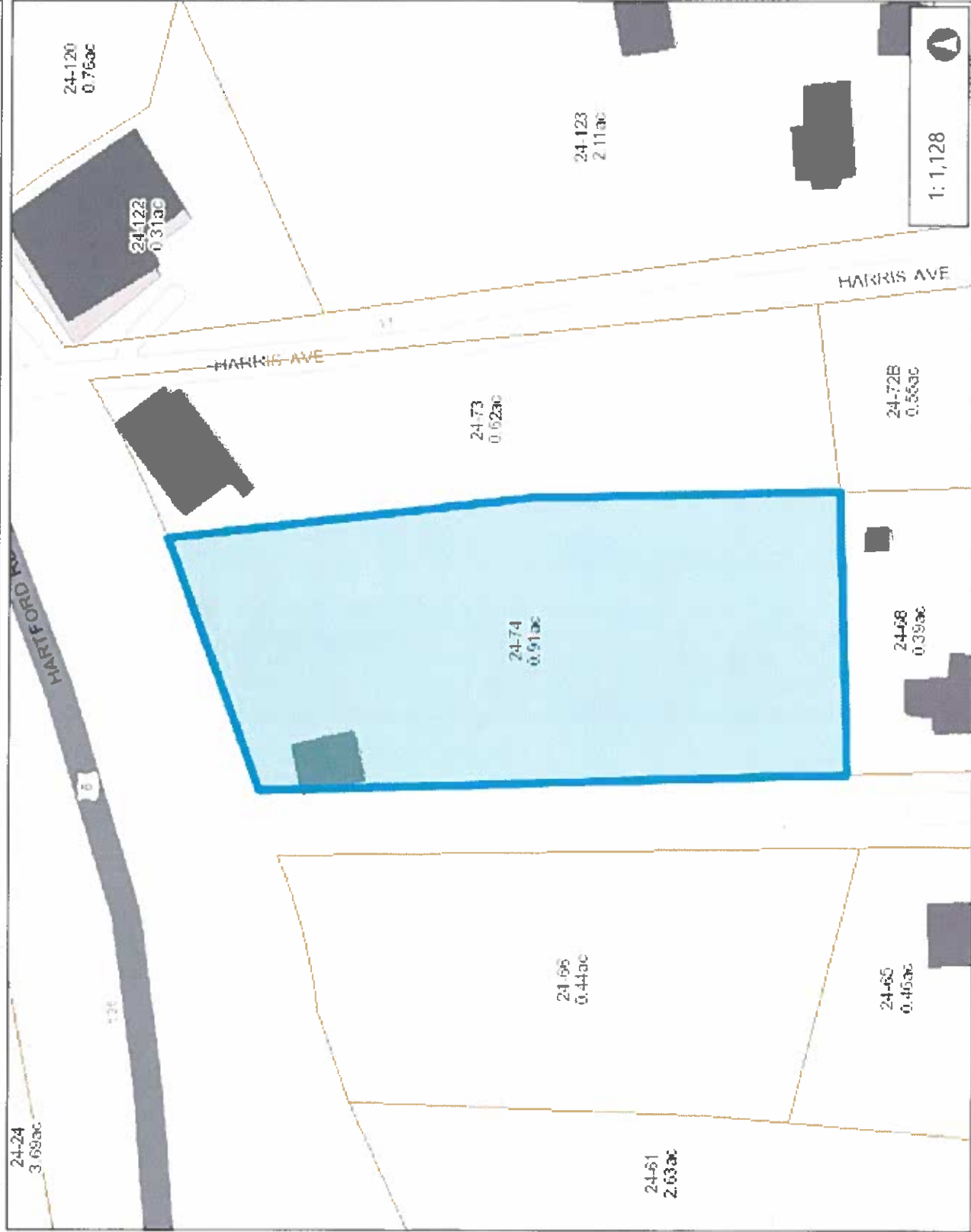
Necog GIS Site



- Legend
- Town
 - Buildings 2012
 - Parcels

Notes

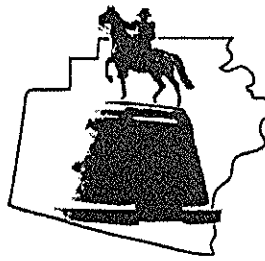
Enter Map Description



This map is a vector generalised state compiled from an internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS 1984 Web Mercator Auxiliary Sphere
© Latitude Geographics Group Ltd



Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands ☒ Zoning Enforcement _____ Blight Enforcement _____

SITE INSPECTION NUMBER

1 2 3 4 5

113 Hartford Rd. 2/21/24
Address Date

I inspected and took photos after
receiving an FWWC application.

The plan does not show the 125'
upland review area properly.

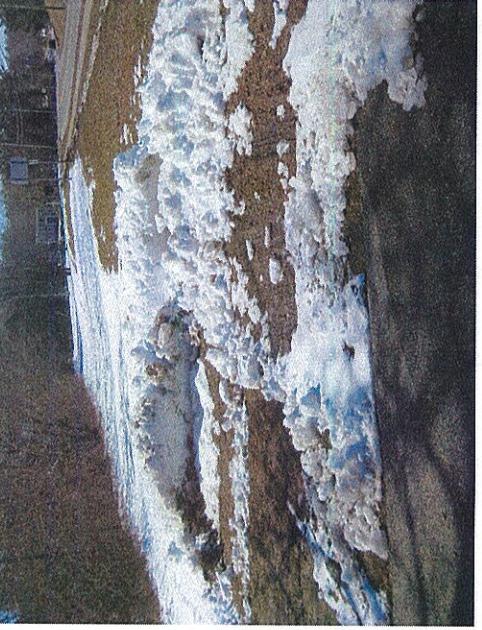
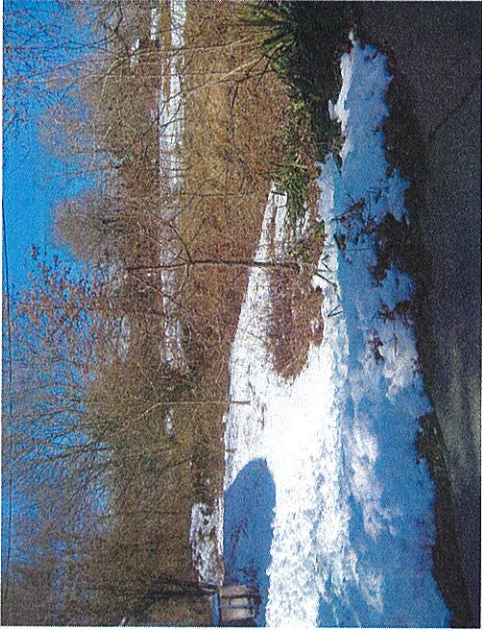
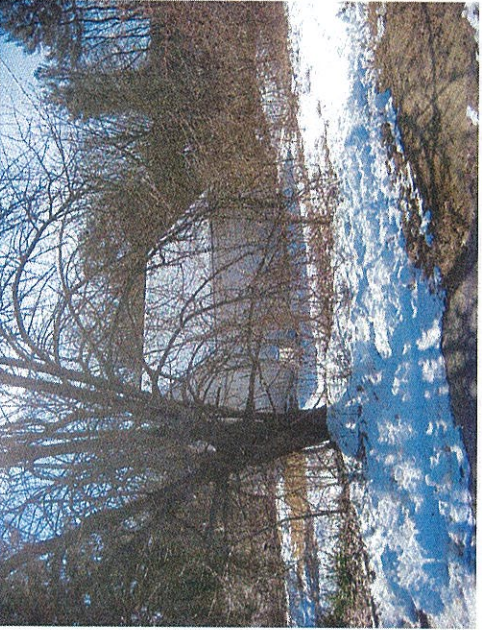
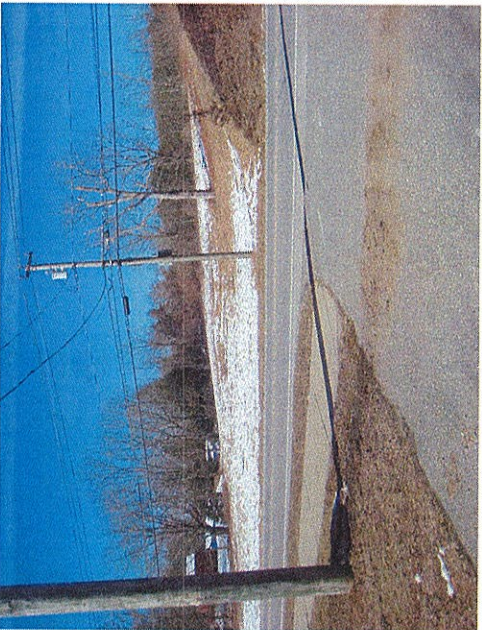
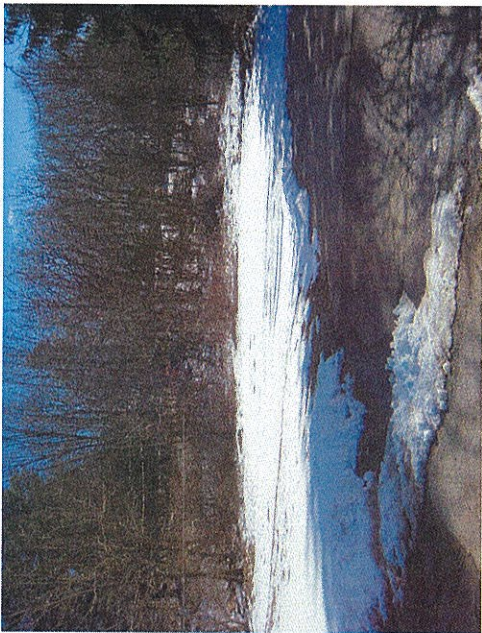
Also, a big tree shown on the plan as a
"15" Hemlock" is a 22" dbh
Norway Spruce.

Email this report to Norm Thibeault.

There are no other FWWC issues.

Commission Representative M. Washburn

Owner or Authorized Signature _____





1111 15 12 11 11

FEB 20 2024

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date February 14, 2024

Application # DR 24-002

APPLICATION -- INLAND WETLANDS & WATERCOURSES

CK #1025 \$110.00
\$50.00 Pub
\$60.00 State

APPLICANT Chris Casadei, LLC

MAILING ADDRESS 360 Bloomfield Ave, Ste 301, Windsor, CT 06095

APPLICANT'S INTEREST IN PROPERTY Timber Harvest

PHONE: CELL 603-309-7819

HOME: _____

E-MAIL chrstercasadei@gmail.com

PROPERTY OWNER IF DIFFERENT Brian Meehan

PHONE: CELL: 401-374-6543 HOME: _____

MAILING ADDRESS 89 Wauregan Rd, Brooklyn, CT 06234

EMAIL bmeehan4@yahoo.com

ENGINEER/SURVEYOR (IF ANY) _____

ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS Old Tatnic Hill Road and Tripp Hollow Road

MAP # _____ LOT # _____ ZONE RA TOTAL ACRES 194.53 ACRES OF WETLANDS ON PROPERTY 33 +/-

m14 Lots 2, 8, 10, 10-1, 10-19, 10-56, 10-59, 10-65

PURPOSE AND DESCRIPTION OF THE ACTIVITY

Selective Timber Harvest

WETLANDS EXCAVATION AND FILL:

FILL PROPOSED 0 CUBIC YDS 0 SQ FT 0

EXCAVATION PROPOSED 0 CUBIC YDS 0 SQ FT 0

LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE n/a OFF SITE _____

TOTAL REGULATED AREA ALTERED: SQ FT 0 ACRES _____

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED):

n/a

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY 0 SQ FT _____ ACRES _____

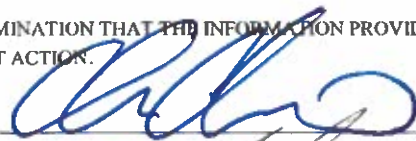
IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? No IF YES, WHICH TOWN(S) _____

IS THE ACTIVITY LOCATED WITHIN THE WATERSHED OF A WATER COMPANY AS DEFINED IN CT GENERAL STATUTES 25-32A? No

THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.

NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION.

APPLICANT:



DATE

2/14/24

OWNER:



DATE

2-21-24

REQUIREMENTS

STANDARD APPLICATION FEE \$ (\$150) STATE FEE (\$60) CHECK #

NOTICE OF ACTION PUBLICATION FEE \$ CHECK #

PUBLIC HEARING PUBLICATION FEE (\$100) \$ (SUBJECT TO CHANGE DEPENDING ON PAPER) CHECK#

SIGNIFICANT ACTIVITY FEE (PUBLIC HEARING) (\$250) \$ CHECK #

COMPLETION OF CT DEEP REPORTING FORM

ORIGINAL PLUS COPIES OF ALL MATERIALS REQUIRED - NUMBER TO BE DETERMINED BY STAFF

PRE-APPLICATION MEETING WITH THE WETLANDS AGENT IS RECOMMENDED TO EXAMINE THE SCOPE OF THE ACTIVITY

SITE PLAN SHOWING LOCATION OF THE WETLANDS WITH EXISTING AND PROPOSED CONDITIONS.
APPLICANT MAY BE REQUIRED TO HAVE A CERTIFIED SOIL SCIENTIST IDENTIFY THE WETLANDS.

COMPLIANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL MANUAL

IF THE PROPOSED ACTIVITY IS DEEMED TO BE A "SIGNIFICANT IMPACT ACTIVITY" A PUBLIC HEARING IS REQUIRED ALONG WITH THE FOLLOWING INFORMATION:

- NAMES AND ADDRESSES OF ABUTTING PROPERTY OWNERS
- ADDITIONAL INFORMATION AS CONTAINED IN IWWC REGULATIONS ARTICLE 7.6

ADDITIONAL INFORMATION/ACTION NEEDED:

OTHER APPLICATIONS MAY BE REQUIRED. CONTACT THESE AGENCIES FOR FURTHER INFORMATION:
APPLICATION TO STATE OF CONNECTICUT DEEP

INLAND WATER RESOURCES DIVISION
79 ELM ST.
HARTFORD, CT. 06106
1-860-424-3019

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MA. 01742
1-860-343-4789

STAFF USE ONLY:

____ DECLARATORY RULING: AS OF RIGHT & NON-REGULATED USES (SEE IWWC REGULATIONS SECTION 4)

____ PERMIT REQUIRED:

____ AUTHORIZED BY STAFF/CHAIR (NO ACTIVITY IN WETLANDS/WATERCOURSE AND MINIMAL IMPACT)

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ AUTHORIZED BY IWWC

____ SIGNIFICANT ACTIVITY/PUBLIC HEARING

____ NO PERMIT REQUIRED

____ OUTSIDE OF UPLAND REVIEW AREA

____ NO IMPACT

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ TIMBER HARVEST

NOTIFICATION OF TIMBER HARVEST

Town: Brooklyn

Date: 2/14/2024

Property Location: Old Tatnic Hill Road and Tripp Hollow Road

List all parcels:

Assessor's Info:

Map	Block	Lot
14		2, 8, 10, 10-1, 10-19, 10-56, 10-65, 10-59

OR:

Unique ID

Total acreage of property(s): 194

Total acreage of harvest area: 154

Landowner(s) of Record: Brian Meehan

Mailing Address: 89 Wauregan Road

Town: Brooklyn Zip 06234

Phone (401) 374-6543

E-mail: bmeehan4@yahoo.com

Primary Contact: Chris Casadei

Mailing Address: see below

Town: _____ Zip _____

Phone () _____

E-mail: _____

Note: Timber harvesting is a *Permitted as of Right Activity* pursuant to the Inland Wetlands and Watercourses Act, except for those practices regulated under Section 22a-36 through 22a-45 of the Connecticut General Statutes.

Is there a current forest management/stewardship plan for this property? ☐ Yes ☒ No

This timber harvest has been prepared by a State of Connecticut certified:

(Check one): ☒ Forester OR ☐ Supervising Forest Products Harvester

Forest Practitioner Certificate #: F-463

Name: Chris Casadei

Address: 360 Bloomfield Ave, Ste. 301, Windsor, CT 06095

E-mail: christercasadei@gmail.com

Phone #: (Business) _____ (Cell) 603-309-7819

Property Boundaries:

Bounds are marked: ☒ Yes ☐ No

Timber Harvest Boundaries:

Have been marked or flagged: ☒ Yes ☐ No

Have owners of all lands within 100 feet of the harvest area been notified via first-class mail prior to filing this "Notification of Timber Harvest"? ☐ Yes ☒ No

Estimated starting date of timber harvesting operations: 3 / 15 / 24

Description of Timber Harvest:

Objective: Remove unacceptable growing stock and establish natural regeneration

Treatment: Selection Harvest

Amount of forest products to be harvested:

250mbf

Board feet

150

Cords

Cubic feet

Tons

How have the trees to be harvested been designated?

☐ They have been marked with paint at eye level and at ground level. Paint color(s): blue

☐ They have not been marked

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.

SOIL, WATER AND INLAND WETLANDS RESOURCES

Actions Being Performed On This Land

(Check all that apply and locate on attached Timber Harvest Area map -- see information below on maps.)

<u>Crossings / Clearing</u> <input checked="" type="checkbox"/> Temporary stream/drainage crossing <input type="checkbox"/> Temporary wetlands crossing <input type="checkbox"/> Removal of trees in wetlands <input type="checkbox"/> Removal of trees in upland review area	<u>Erosion and Sedimentation Control Measures:</u> <input type="checkbox"/> Installation of water bars <input type="checkbox"/> Grading <input type="checkbox"/> Seeding <input type="checkbox"/> Other (describe below)
<u>Log landing area:</u> <input type="checkbox"/> anti-tracking pad <input type="checkbox"/> curb cut <input checked="" type="checkbox"/> existing access	<u>Roads</u> Are new roads, other than skid trails, to be constructed for transport of logs or other activities associated with this harvest? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Describe in further detail as necessary:

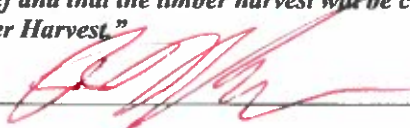
This property was harvested approximately 25 years ago and the network of skid trails used then will be utilized again for this operation. There are 5 intermittent drainage crossings and 1 crossing of wetland soils that will be stabilized with portable timber bridge mats and/or corduroy during the operation and removed upon completion. All best management practices regarding timber harvesting as adopted by the CTDEEP shall be strictly adhered to.

The following maps are attached to this "Notification" (Check all that apply)

- ☐ Copy of USGS topographic map with property outlined
- ☐ Copy of Assessor's map with property outlined
- ☒ Timber Harvest Area map showing outline of harvest area, main skid road locations, log landing area, truck access roads, inland wetlands, watercourses and any crossings

The undersigned hereby swear that the information contained in this application is true, accurate and complete to the best of my (our) knowledge and belief and that the timber harvest will be conducted in accordance with the specifications outlined in this "Notification of Timber Harvest."

Signature of Landowner(s):



Date:

2-21-24

Print/Type Name: Brian Meehan

Signature of Landowner(s):

Date:

Print/Type Name:

Signature of Certified Forest Practitioner:



Date:

2/14/24

Print Name: Chris Casadei

Certificate #: F-463

Expiration Date: 11 / 1 / 24

Complete and Submit to:

- The Municipal Inland Wetlands Agency/ies in which the property is located, and
- A courtesy copy of this Notification Form should also be sent to The Department of Environmental Protection, Division of Forestry 79 Elm Street, Hartford, CT, Tel: (860) 424-3630

This is not an official CT DEP form but it has been endorsed for town usage by: CT Farm Bureau Assoc., CT Forest & Park Assoc., CT Professional Timber Producers, Society of American Foresters - CT Chapter, and others.



Statewide Inland Wetlands & Watercourses Activity Reporting Form

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

1. DATE ACTION WAS TAKEN: year: _____ month: _____

2. ACTION TAKEN (see instructions - one code only): _____

3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐

4. 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

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Brooklyn

does this project cross municipal boundaries (check one)? yes ☐ no ☒

if yes, list the other town(s) in which the activity is occurring (print name(s)): _____

6. LOCATION (see instructions for information): USGS quad name: Danielson or number: 43

subregional drainage basin number: 3711

7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Chris Casadei

8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): Brian Meehan, Old Tatnic Hill and Tripp Hollow Rd

briefly describe the action/project/activity (check and print information): temporary ☒ permanent ☐ description: _____

Selective Timber Harvest with temporary drainage crossings

9. ACTIVITY PURPOSE CODE (see instructions - one code only): G

10. ACTIVITY TYPE CODE(S) (see instructions for codes): 12, 14, _____

11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):

wetlands: 0 acres open water body: 0 acres stream: 0 linear feet

12. UPLAND AREA ALTERED (must provide acres): 0 acres

13. 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

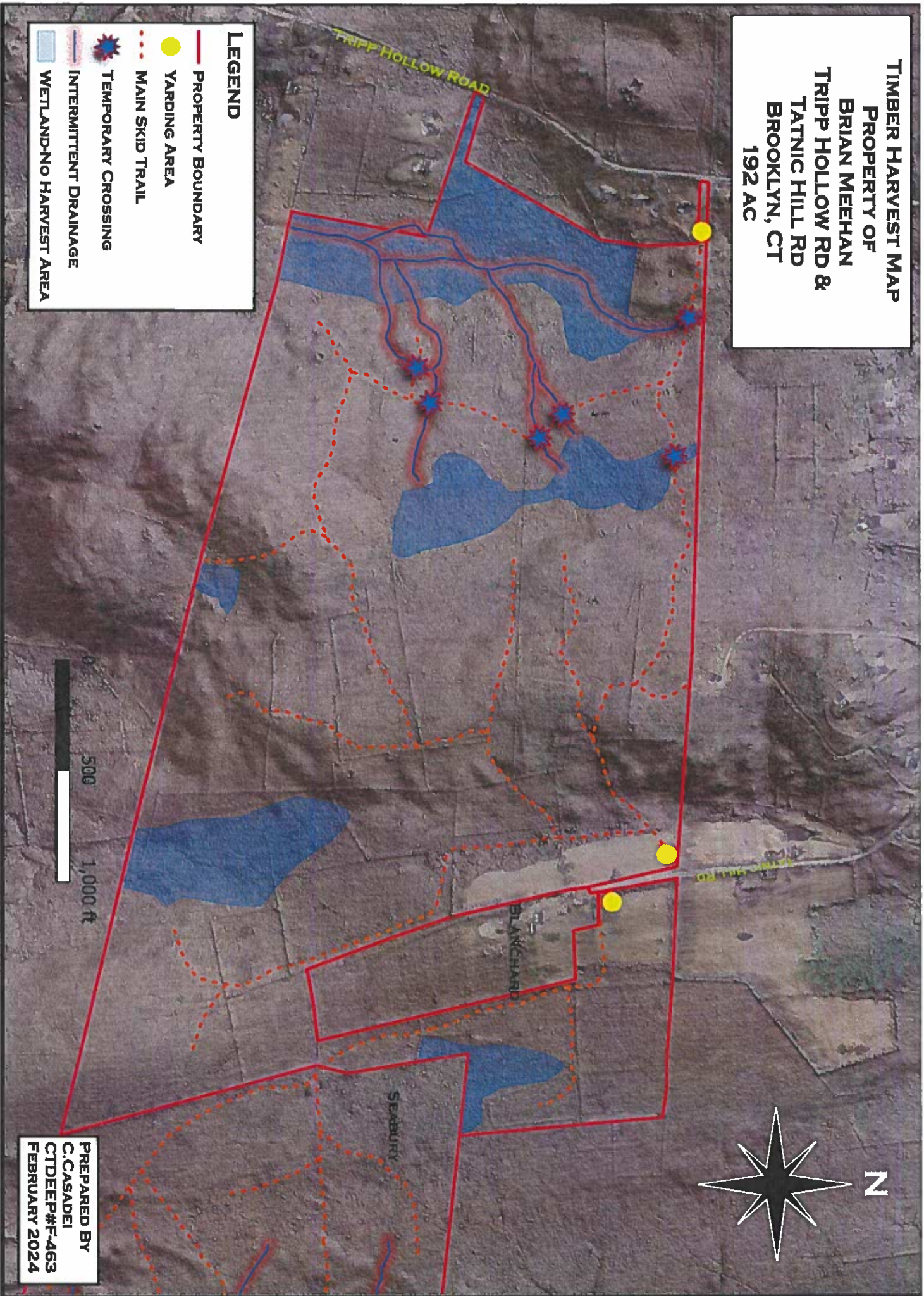
TIMBER HARVEST MAP
PROPERTY OF
BRIAN MEEHAN
TRIPP HOLLOW RD &
TATNIC HILL RD
BROOKLYN, CT
192 AC

LEGEND

- PROPERTY BOUNDARY
- YARDING AREA
- ... MAIN SKID TRAIL
- ✱ TEMPORARY CROSSING
- INTERMITTENT DRAINAGE
- WETLAND-NO HARVEST AREA



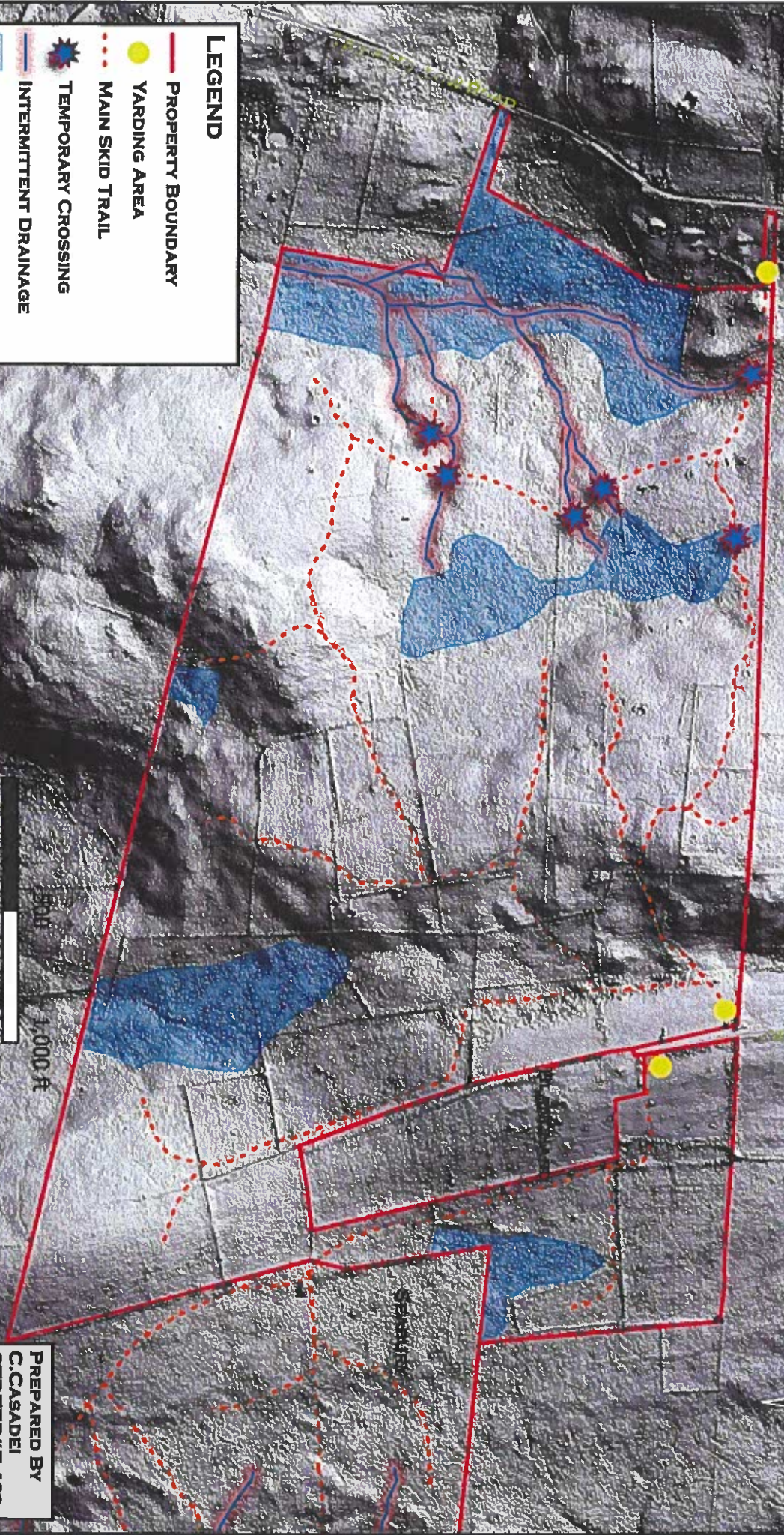
PREPARED BY
C. CASADEI
CTDEEP#F-463
FEBRUARY 2024



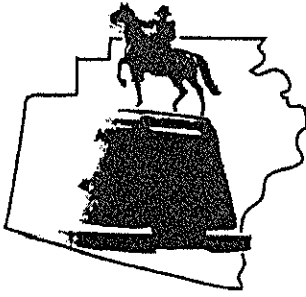
TIMBER HARVEST MAP
PROPERTY OF
BRIAN MEEHAN
TRIPP HOLLOW RD &
TATNIC HILL RD
BROOKLYN, CT

LEGEND

- PROPERTY BOUNDARY
- YARDING AREA
- MAIN SKID TRAIL
- ★ TEMPORARY CROSSING
- INTERMITTENT DRAINAGE
- WETLAND-NO HARVEST AREA



PREPARED BY
C.CASADEI
CTDEEP#F-463
FEBRUARY 2024



TOWN OF BROOKLYN
Land Use Department
69 South Main Street • Suite 22
BROOKLYN, CONNECTICUT 06234
860-779-3411 Ext. 12

**CEASE AND DESIST ORDER AND
NOTICE OF SHOW CAUSE HEARING
IWWC #23-013 – Hartford Road – Map 10 Lot 7**

CERTIFIED # 7022 2410 0001 4699 3721

Robert Ross
24 Plaza Street
Brooklyn, CT 06234

March 7, 2024

Re: Violation of Inland Wetlands Permit for 630 Hartford Road – Map 10 Lot 7

Dear Mr. Ross,

You are hereby required to **CEASE AND DESIST** from all site work affecting the wetlands at your property at 630 Hartford Road (Map 10 Lot 7). On 2/28/24, I inspected the subject property. It appeared that vegetation had been removed from wetlands and/or upland review area both on the subject property and on abutting land to the south, owned by others. You also appear to have done digging on land owned by others to drain and/or direct water towards the existing driveway on land owned by others.

In addition, I observed that you had installed a 36-inch pipe under the existing driveway, beside a perennial stream. This pipe was not shown on the approved site plans. **The installation of the pipe, digging and/or draining and/or redirecting water and removal of vegetation from wetlands both on your property and on property belonging to others are in violation of your IWWC permit, IWWC #23-013, issued on 12/12/23.**

There is reason for concern that the unpermitted work may have increased the rate and amount of water entering your property, as well as increasing the rate and amount of water flowing off your property, onto other properties downstream, which could result in downstream flooding.

Please refer to the attached copy of the CT Wetlands Statutes, Section 22a – 44(b) which enables municipalities to assess civil penalties for violations.

Please refer to the attached copy of Section 6 of the Town of Brooklyn IWWC Regulations, which states that any person violating provisions of these regulations shall be subject to enforcement proceedings and penalties.

The IWWC may require that all the pipe be removed from the wetlands. They may require a remediation plan showing work that was done on property belonging to others. They may require that the remediation plan shows mitigation for the unpermitted work. They may require that the Town review engineer review and comment on the remediation plan.

You are hereby required to attend the IWWC meeting at 6:00 p.m. on Tuesday, March 12, 2024 at the Clifford B. Green Meeting Center at 69 South Main Street, Brooklyn, CT. At that meeting, a hearing will take place to provide you the opportunity to be heard and show cause why the Cease and Desist Order should not remain in effect.

This Cease & Desist Order serves as a report to the Brooklyn IWWC, First Selectman, Town Planner and Town Review Engineer.

Issued by:



Margaret Washburn
ZEO/WEO/Blight Enforcement Officer
69 South Main Street, Suite 23
Brooklyn, CT 06234
(860) 779-3411 ext. 31
Mon. – Thurs. 8:00 am – 3:30 pm
m.washburn@brooklynct.org

CC: Austin Tanner, Manuel Medina, Normand Thibeault, Syl Pauley

Attached: CT Wetlands Statutes, Section 22a – 44(b), Section 6 of the Town of Brooklyn IWWC Regulations, map showing approximate area where work was done on property owned by others, site photographs and the field card for one of the owners of property (Mailhot) where unpermitted work in wetlands appears to have been done.

its inland wetlands regulations, or (2) for which an approval is required under sections 22a-36 to 22a-45, inclusive, and for which such approval has not been obtained.

* (b) Any person who commits, takes part in, or assists in any violation of any provision of sections 22a-36 to 22a-45, inclusive, including regulations adopted by the commissioner and ordinances and regulations promulgated by municipalities or districts pursuant to the grant of authority herein contained, shall be assessed a civil penalty of not more than one thousand dollars for each offense. Each violation of said sections shall be a separate and distinct offense, and, in the case of a continuing violation, each day's continuance thereof shall be deemed to be a separate and distinct offense. The Superior Court, in an action brought by the commissioner, municipality, district or any person, shall have jurisdiction to restrain a continuing violation of said sections, to issue orders directing that the violation be corrected or removed and to assess civil penalties pursuant to this section. All costs, fees and expenses in connection with such action shall be assessed as damages against the violator together with reasonable attorney's fees which may be allowed, all of which shall be awarded to the commissioner, municipality, district or person which brought such action. All penalties collected pursuant to this section shall be used solely by the Commissioner of Energy and Environmental Protection (1) to restore the affected wetlands or watercourses to their condition prior to the violation, wherever possible, (2) to restore other degraded wetlands or watercourses, (3) to inventory or index wetlands and watercourses of the state, or (4) to implement a comprehensive training program for inland wetlands agency members.

(c) Any person who wilfully or knowingly violates any provision of sections 22a-36 to 22a-45, inclusive, shall be fined not more than one thousand dollars for each day during which such violation continues or be imprisoned not more than six months or both. For a subsequent violation, such person shall be fined not more than two thousand dollars for each day during which such violation continues or be imprisoned not more than one year or both. For the purposes of this subsection, "person" shall be construed to include any responsible corporate officer.

(1972, P.A. 155, S. 9; P.A. 75-387, S. 2; P.A. 76-330; P.A. 77-599, S. 4, 7; P.A. 81-125, S. 1; P.A. 87-338, S. 9, 11; P.A. 95-151, S. 2; 95-218, S. 13, 24; P.A. 96-269, S. 2; P.A. 11-80, S. 1.)

History: P.A. 75-387 made previous provisions Subsec. (b) and inserted new Subsec. (a) re orders issued upon discovery of violation of Secs. 22a-36 to 22a-45 or regulations of inland wetlands agency; P.A. 76-330 allowed assessment of attorneys fees against violator and required that all costs, etc. be awarded to the initiator of the action; P.A. 77-599 amended Subsec. (a) to allow issuance of orders to cease an activity as well as orders to correct facilities or conditions; P.A. 81-125 amended Subsec. (a) to authorize

Section **6****Regulated Activities
to be Licensed**

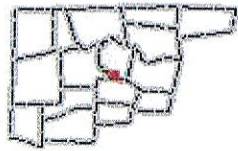
6.1 No person shall conduct or maintain a regulated activity without first obtaining a permit for such activity from the Brooklyn Inland Wetlands and Watercourses Commission of the Town of Brooklyn.

6.2 Any person found to be conducting or maintaining a regulated activity without the prior authorization of the Commission, or violating any other provision of these regulations, shall be subject to the enforcement proceedings and penalties prescribed in section 14 of these regulations and any other remedies as provided by law.



necog

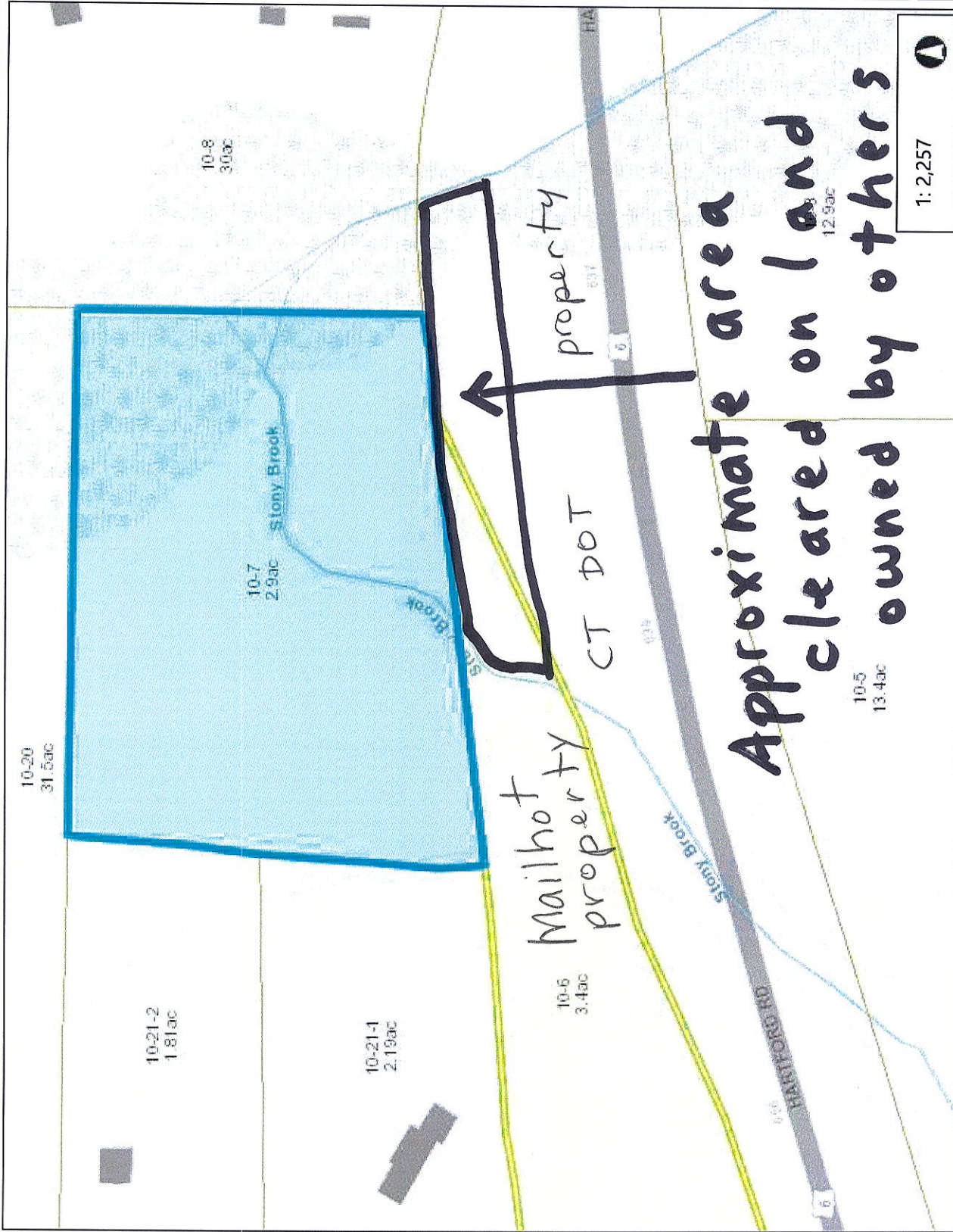
Necog GIS Site



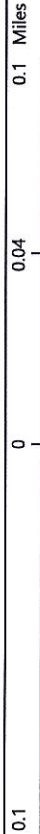
- Legend
- Town
 - Buildings 2012
 - Parcels
 - Rivers and Streams
 - Lakes and Ponds

Notes

Approximate area cleared on land owned by others



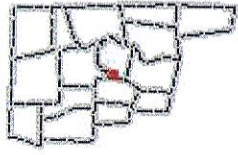
1:2,257



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

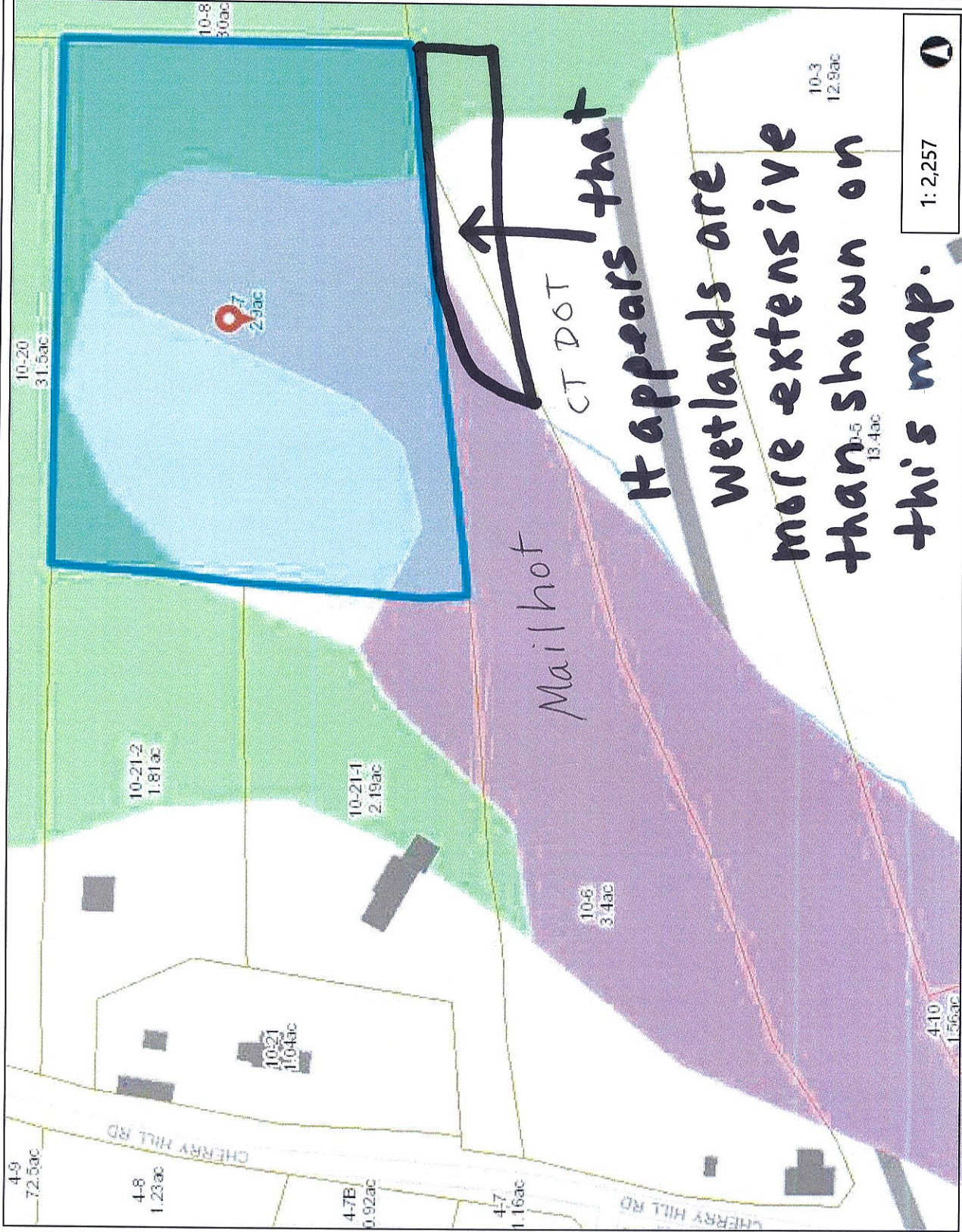
THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.



Legend

- Town
- Buildings 2012
- Parcels
- Wetlands
 - Alluvial and Floodplain Soils
 - Poorly Drained and Very Poorly Dre
- Rivers and Streams
- Lakes and Ponds



1:2,257



Notes

NECCOG wetlands

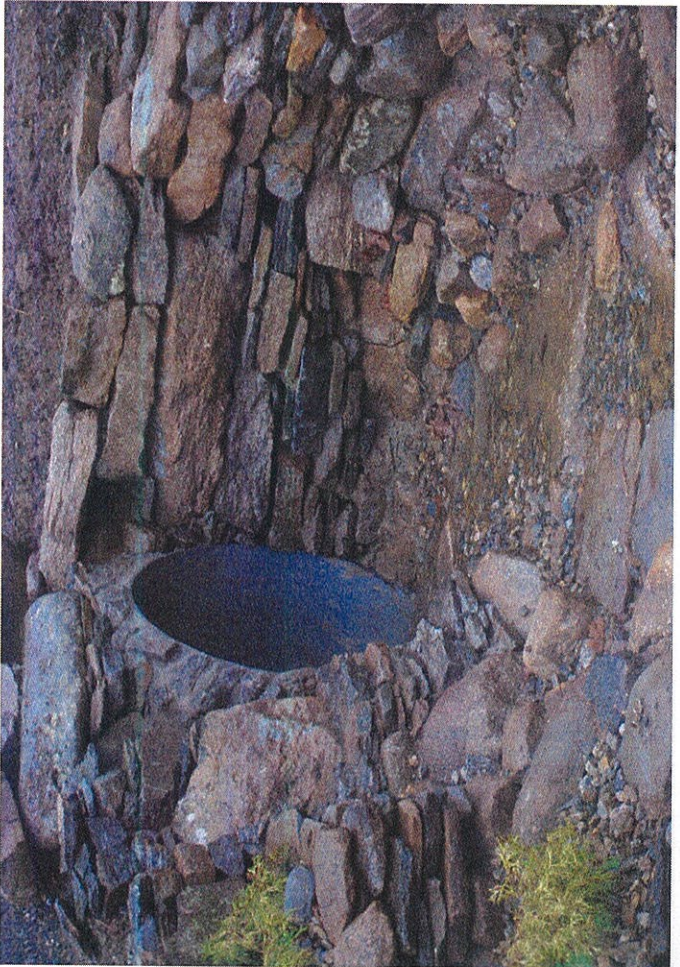
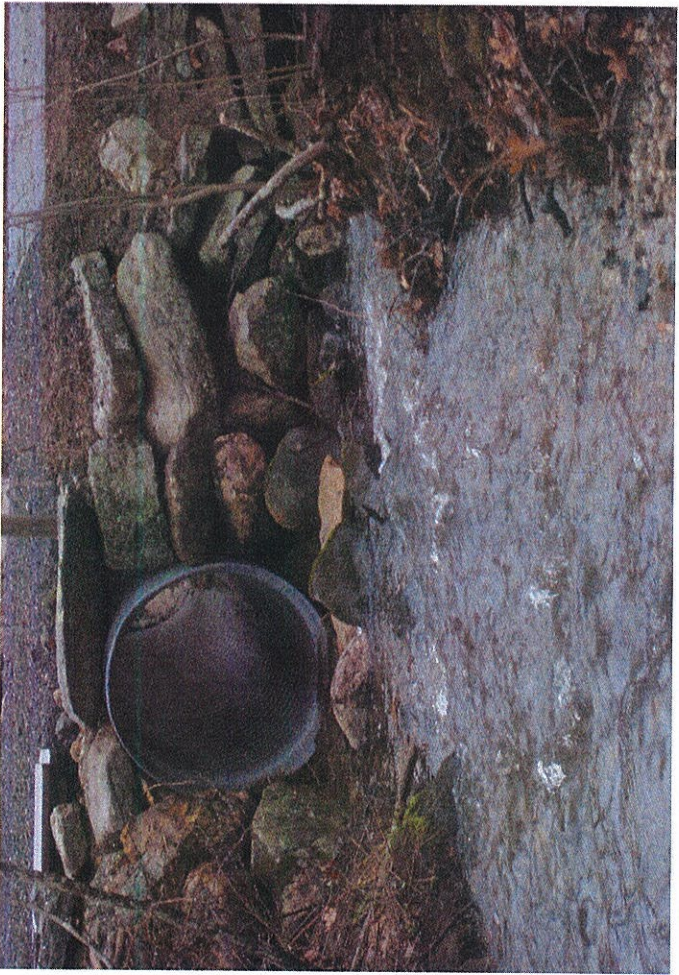
This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

0.1 Miles

0.04

0







Killingly Engineering Associates

Civil Engineering & Surveying



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

November 03, 2023

Proposed Single Family Home

***Robert N. Ross & Teresa D. Ross
Hartford Road (Route 6)
Brooklyn, CT***

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:

Base Fee:	\$150.00
State fee:	\$ 60.00
Total = \$210.00	

2. 5- full sized sets of plans revised to: 10/18/2023
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Soil Scientist Delineation Report
7. Soil Scientist Impact Report
8. Web Soil Survey Map
9. GIS mapping
10. Applicant's Certification



INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date _____

Application # _____

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT Robert N. Roos MAILING ADDRESS 24 Plaza St. Brooklyn, CT
APPLICANT'S INTEREST IN PROPERTY _____ PHONE: CELL 860-634-7856 HOME: _____
E-MAIL _____

PROPERTY OWNER IF DIFFERENT _____ PHONE: CELL: _____ HOME: _____
MAILING ADDRESS _____ EMAIL _____

ENGINEER/SURVEYOR (IF ANY) _____
Killingly Engineering Associates - NORMAND THIBEAULT JR, P.E.
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS) Hartford Road (Route 6)

MAP # 10 LOT # 7 ZONE RA TOTAL ACRES 3.82 ACRES OF WETLANDS ON PROPERTY ±1.75

PURPOSE AND DESCRIPTION OF THE ACTIVITY
Proposed construction of a residential home with on site septic, drilled well & improvements to an existing stone culvert

WETLANDS EXCAVATION AND FILL:
FILL PROPOSED 0 CUBIC YDS 0 SQ FT 0
EXCAVATION PROPOSED 0 CUBIC YDS 0 SQ FT 0
LOCATION WHERE MATERIAL WILL BE PLACED: ON SITE _____ OFF SITE _____
TOTAL REGULATED AREA ALTERED: SQ FT _____ ACRES _____

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED):
No Alternatives were considered because no wetlands disturbance is proposed

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY 0 SQ FT 0 ACRES 0

IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? NO IF YES, WHICH TOWN(S) _____

IS THE ACTIVITY LOCATED WITHIN THE WATERSHED OF A WATER COMPANY AS DEFINED IN CT GENERAL STATUTES 25-32A? No

THE OWNER AND APPLICANT HEREBY GRANT THE BROOKLYN IWWC, THE BOARD OF SELECTMAN AND THEIR AUTHORIZED AGENTS PERMISSION TO ENTER THE SUBJECT PROPERTY FOR THE PURPOSE OF INSPECTION AND ENFORCEMENT OF THE IWWC REGULATIONS OF THE TOWN OF BROOKLYN. IF THE COMMISSION DETERMINES THAT OUTSIDE REVIEW IS REQUIRED, APPLICANT WILL PAY CONSULTING FEE.

NOTE: DETERMINATION THAT THE INFORMATION PROVIDED IS INACCURATE MAY INVALIDATE THE IWWC DECISION AND RESULT IN ENFORCEMENT ACTION.

APPLICANT: Robert N. Ross DATE _____

OWNER: " [Signature] " DATE 11/13/2023

REQUIREMENTS

☒ STANDARD APPLICATION FEE \$ (\$150) ☒ STATE FEE (\$60) ☒ CHECK # _____

NOTICE OF ACTION PUBLICATION FEE \$ _____ CHECK # _____

PUBLIC HEARING PUBLICATION FEE (\$100) \$ _____ (SUBJECT TO CHANGE DEPENDING ON PAPER) CHECK# _____

SIGNIFICANT ACTIVITY FEE (PUBLIC HEARING) (\$250) \$ _____ CHECK # _____

☒ COMPLETION OF CT DEEP REPORTING FORM

☒ ORIGINAL PLUS COPIES OF ALL MATERIALS REQUIRED - NUMBER TO BE DETERMINED BY STAFF

PRE-APPLICATION MEETING WITH THE WETLANDS AGENT IS RECOMMENDED TO EXAMINE THE SCOPE OF THE ACTIVITY

☒ SITE PLAN SHOWING LOCATION OF THE WETLANDS WITH EXISTING AND PROPOSED CONDITIONS.
APPLICANT MAY BE REQUIRED TO HAVE A CERTIFIED SOIL SCIENTIST IDENTIFY THE WETLANDS.

☒ COMPLIANCE WITH THE CONNECTICUT EROSION & SEDIMENTATION CONTROL MANUAL

IF THE PROPOSED ACTIVITY IS DEEMED TO BE A "SIGNIFICANT IMPACT ACTIVITY" A PUBLIC HEARING IS REQUIRED ALONG WITH THE FOLLOWING INFORMATION:

- NAMES AND ADDRESSES OF ABUTTING PROPERTY OWNERS
- ADDITIONAL INFORMATION AS CONTAINED IN IWWC REGULATIONS ARTICLE 7.6

ADDITIONAL INFORMATION/ACTION NEEDED:

SOIL SCIENTIST DELINEATION REPORT
SOIL SURVEY MAPPING

OTHER APPLICATIONS MAY BE REQUIRED. CONTACT THESE AGENCIES FOR FURTHER INFORMATION:
APPLICATION TO STATE OF CONNECTICUT DEEP

INLAND WATER RESOURCES DIVISION
79 ELM ST.
HARTFORD, CT. 06106
1-860-424-3019

DEPARTMENT OF THE ARMY CORPS OF ENGINEERS
696 VIRGINIA ROAD
CONCORD, MA. 01742
1-860-343-4789

STAFF USE ONLY:

____ DECLARATORY RULING: AS OF RIGHT & NON-REGULATED USES (SEE IWWC REGULATIONS SECTION 4)

____ PERMIT REQUIRED:

____ AUTHORIZED BY STAFF/CHAIR (NO ACTIVITY IN WETLANDS/WATERCOURSE AND MINIMAL IMPACT)

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ AUTHORIZED BY IWWC

____ SIGNIFICANT ACTIVITY/PUBLIC HEARING

____ NO PERMIT REQUIRED

____ OUTSIDE OF UPLAND REVIEW AREA

____ NO IMPACT

____ CHAIR, BROOKLYN IWWC

____ WETLANDS OFFICER

____ TIMBER HARVEST



Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION

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 this form in accordance with the instructions on pages 2 and 3 and mail 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

1. DATE ACTION WAS TAKEN: year: _____ month: _____

2. ACTION TAKEN (see instructions - one code only): _____

3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐

4. 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

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Brooklyn

does this project cross municipal boundaries (check one)? yes ☐ no ☐

if yes, list the other town(s) in which the activity is occurring (print name(s)): _____

6. LOCATION (see instructions for information): USGS quad name: Hampton or number: 42

subregional drainage basin number: 3711-01

7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Robert W. Ross

8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): Hartford Road (Route 6)

briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: Proposed

Construction of a residential home

9. ACTIVITY PURPOSE CODE (see instructions - one code only): A

10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14

11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):

wetlands: 0 acres open water body: 0 acres stream: 0 linear feet

12. UPLAND AREA ALTERED (must provide acres): 0.75 acres

13. 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
426 SHETUCKET TURNPIKE, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS
WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

10/4/23

KILLINGLY ENGINEERING ASSOCIATES
P.O. Box 421
DAYVILLE, CT. 06241

RE: WETLAND DELINEATION, ROSS PROPERTY, HARTFORD RD. BROOKLYN, CT.

DEAR MR. GLAUDE,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS AND WATERCOURSES ON THE SUBJECT 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 AND WATERCOURSES THAT WERE FOUND.

FLAG NUMBERS WF-1 THROUGH WF-28 AND WF-1 B THROUGH WF-4B DELINEATE THE FORESTED/SCRUB-SHRUB INLAND WETLANDS AND FLOODPLAIN SOILS ASSOCIATED WITH STONY BROOK IN THE EASTERN HALF OF THE PARCEL.

FLAG NUMBERS WF-1 A THROUGH WF-44A DELINEATE THE WESTERN BOUNDARY OF STONY BROOK AND ITS ASSOCIATED FORESTED/SCRUB-SHRUB WETLANDS AND FLOODPLAIN SOILS.

A PALUSTRINE FORESTED WETLAND CORRIDOR EXTENDS AROUND THE FIELD AREA ALONG THE NORTHERN AND WESTERN PROPERTY BOUNDARIES.

THE FLAG SERIES THAT EXTEND ALONG THE GRAVEL AND PAVEMENT MILLINGS DRIVEWAY LOCATED ON THE SOUTHERN PROPERTY LINE DELINEATE WETLAND SOILS AND THE OVERFLOW PATH OF THE BROOK WHEN IT FLOODS INTO THAT GENERAL AREA.

A CORRUGATED PLASTIC DRAIN PIPE WAS INSTALLED UNDER THE DRIVEWAY TO HELP DRAINAGE AND PREVENT THE DRIVEWAY FROM WASHING OUT DURING SIGNIFICANT STORM EVENTS.

THE DISCHARGE AREA FOR THIS SMALL PIPE WAS INVESTIGATED FOR THE PRESENCE OF WETLAND SOILS AND NONE WERE FOUND.

THESE WETLAND SOILS HAVE FORMED FROM THE PROLONGED WETNESS FROM THE SEASONALLY HIGH WATER TABLES AND GROUNDWATER BREAKOUT.

THESE WETLAND SOILS ARE CHARACTERIZED BY THICK ORGANIC "A" HORIZONS, SHALLOW REDOXIMORPHIC FEATURES AND LOW CHROMA COLORS FOUND WITHIN 20 INCHES OF THE SOIL SURFACE.

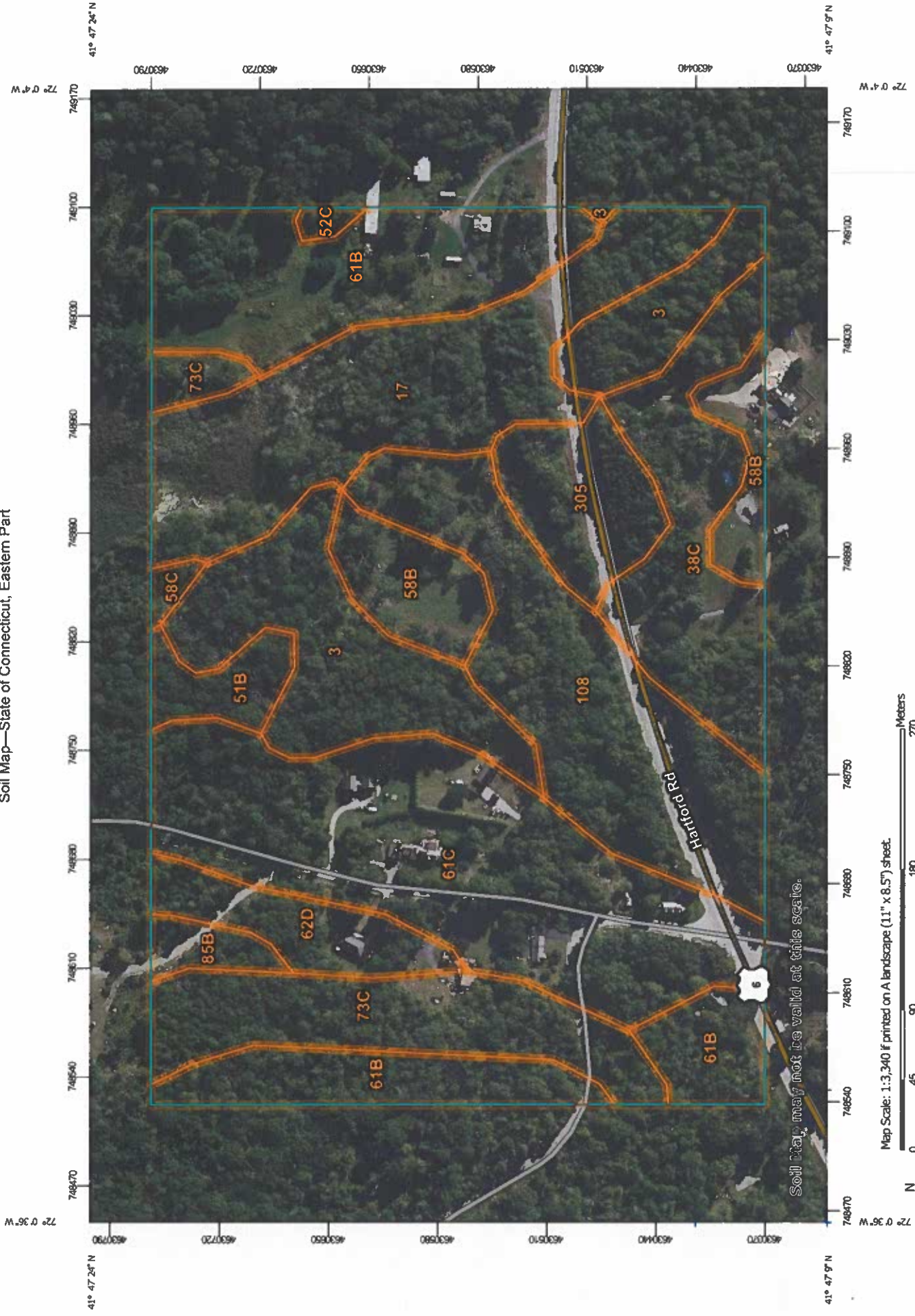
IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING THE DELINEATION OR THIS REPORT, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX
CERTIFIED SOIL SCIENTIST
MEMBER SSSSNE, NSCSS, SSSA.

Soil Map—State of Connecticut, Eastern Part



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

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

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, Eastern Part
Survey Area Data: Version 1, Sep 15, 2023

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

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

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.

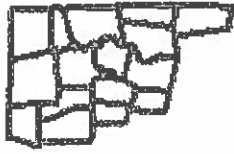
Map Unit Legend

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	6.0	10.7%
17	Timakwa and Natchaug soils, 0 to 2 percent slopes	7.4	13.1%
38C	Hinckley loamy sand, 3 to 15 percent slopes	4.4	7.8%
51B	Sutton fine sandy loam, 0 to 8 percent slopes, very stony	1.0	1.8%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	0.2	0.3%
58B	Gloucester gravelly sandy loam, 3 to 8 percent slopes, very stony	2.6	4.6%
58C	Gloucester gravelly sandy loam, 8 to 15 percent slopes, very stony	0.2	0.4%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	8.6	15.3%
61C	Canton and Charlton fine sandy loams, 8 to 15 percent slopes, very stony	10.0	17.7%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	1.8	3.2%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	4.5	8.0%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	0.6	1.1%
108	Saco silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	6.9	12.2%
305	Udorthents-Pits complex, gravelly	2.2	4.0%
Totals for Area of Interest		56.4	100.0%



necog

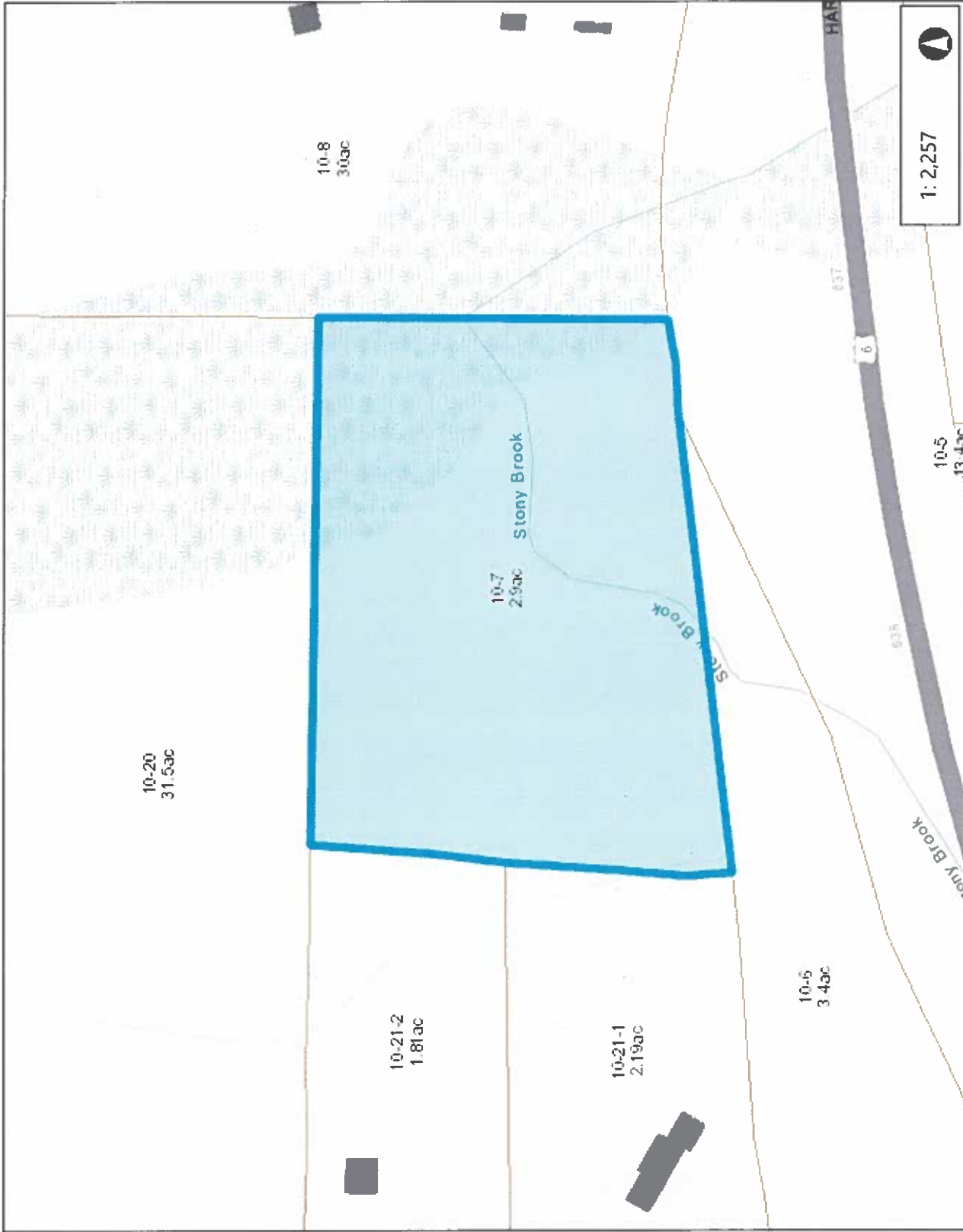
Necog GIS Site



- Legend
- Town
 - Buildings 2012
 - Parcels

Notes

Enter Map Description



This map is a user generated static output from an internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.



Killingly Engineering Associates

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

November 03, 2023

Proposed Construction of Residential Home

***Robert N. Ross & Teresa D. Ross
Hartford Road (Route 6)
Brooklyn, 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

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 24000083 Map # 10 Block # _____ Lot # 7
 Property Owner Robert + Teresa Ross Address Hartford Road, Brooklyn

DEEP TEST PIT DATA/SOIL DESCRIPTIONS

DATE: 10/18/23

TEST PIT: 1	TEST PIT: 2	TEST PIT: 3	TEST PIT:
0-10" Top Soil	0-6" Top Soil	0-6" Top Soil	
10"-27" Orange Brown Sandy Loam	6"-26" Orange Brown Sandy Loam	6"-28" Orange Brown Sandy Loam	
27"-67" Mottled Gray Sandy Loam with Fines	26"-56" Mottled Tan Sandy Loam with Fines; Compact	28"-68" Mottled Gray Sandy Loam with Fines + Rock; Compact	
67"-74" Groundwater	56"-70" Groundwater	68"-78" Groundwater	
Mottles: 27"	Mottles: 26"	Mottles: 28"	Mottles:
GW: 67"	GW: 56"	GW: 68"	GW:
Ledge: —	Ledge: —	Ledge: —	Ledge:
Roots: —	Roots: —	Roots: —	Roots:
Restrictive: 27"	Restrictive: 26"	Restrictive: 28"	Restrictive:

COMMENTS: _____

GROUNDWATER TABLE (Near max., below max., etc.): Near Max
 SOIL MOISTURE (High, medium, low, etc.): Medium

PERCOLATION TEST DATA

DATE: 10/18/23

PERC: A		PERC:		PERC:		PERC:	
DEPTH: 22"		DEPTH:		DEPTH:		DEPTH:	
PRESOAK: 9:30 AM		PRESOAK:		PRESOAK:		PRESOAK:	
TIME	READING	TIME	READING	TIME	READING	TIME	READING
10:08	1"						
10:13	5"						
10:21	9"						
10:26	10.5"						
10:31	12"						
10:36	13.5"						
10:41	15"						
10:43	15.5"						
PERC RATE: 4 min/inch		PERC RATE:		PERC RATE:		PERC RATE:	

COMMENTS: _____

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 SOUTH MAIN STREET
BROOKLYN, CT 06234
(860) 774-7350

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

File # 24000083 Map # 10 Block # _____ Lot # 7
Property Owner Robert + Teresa Ross Address Hartford Road, Brooklyn

LOCATION DRAWING INCLUDING ALL TEST PITS AND PERCOLATION HOLES

* Test pits located by Killingly Engineering Associates.

SPECIAL CONDITIONS		DESIGN RECOMMENDATIONS	
Design Flow > 2000 GPD		Suitable for Sewage Disposal	✓
Public Water Supply Watershed		Unsuitable for Sewage Disposal	
Probable High Groundwater	✓	Wet Season Monitoring Required	
Slope > 25 percent		Engineered Plan Required	✓
Perc Rate < 1 min/inch		Surveyor Plan Required	
Perc Rate > 30 min/inch		Septic Installer Plan Required	
Ledge < 5 feet below grade		Number of Bedrooms	3
Limited Suitable Area		Gallons Per Day (Non-Residential)	
Open Watercourse or Wetlands	✓	Size of Septic Tank Required	1,000 gallon
Flood Plain / Seasonal Flooding		Effective Leaching Area Required	495 sq ft
Max. G.W. < 36 inches below grade		Maximum Depth into Grade	2"

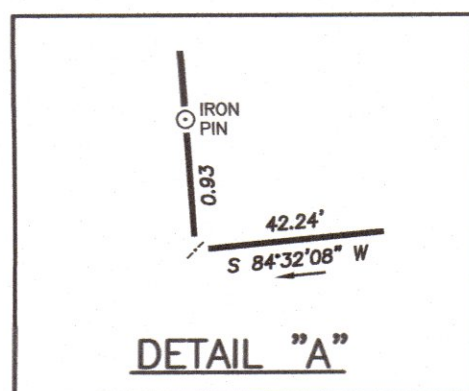
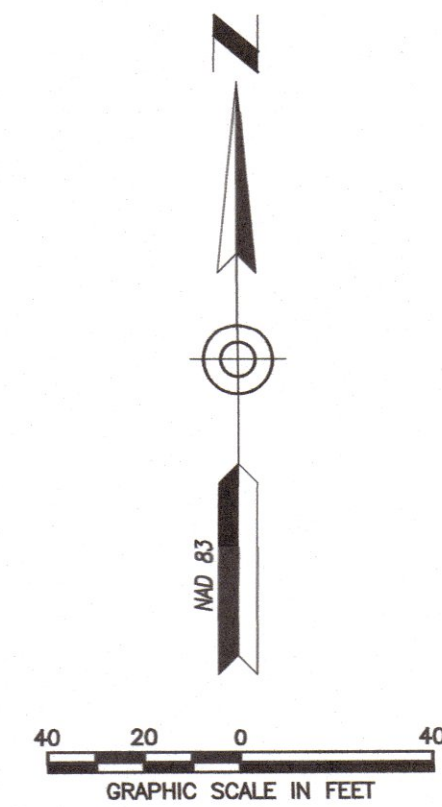
DESIGN RECOMMENDATIONS/COMMENTS

A proposed 3 bedroom home will require a 1,000 gallon two-compartment septic tank and 495 sq ft of ELA. The maximum depth into grade is not to exceed 2" inches. MLSS must be addressed.

Investigated By: Donovan Moe Title: EHS

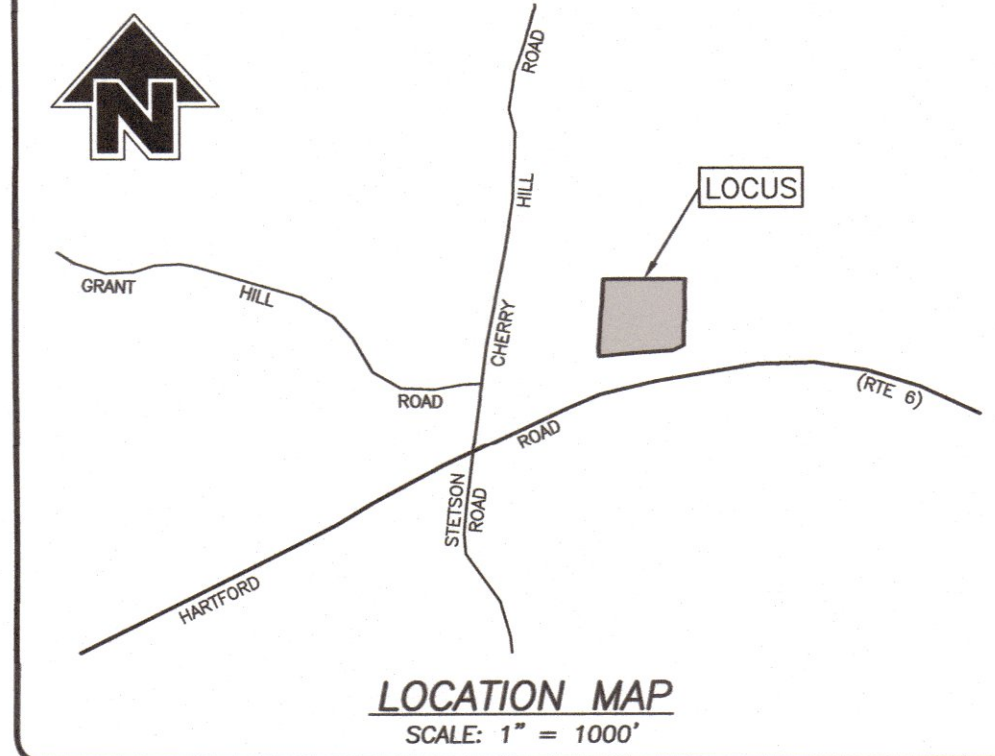
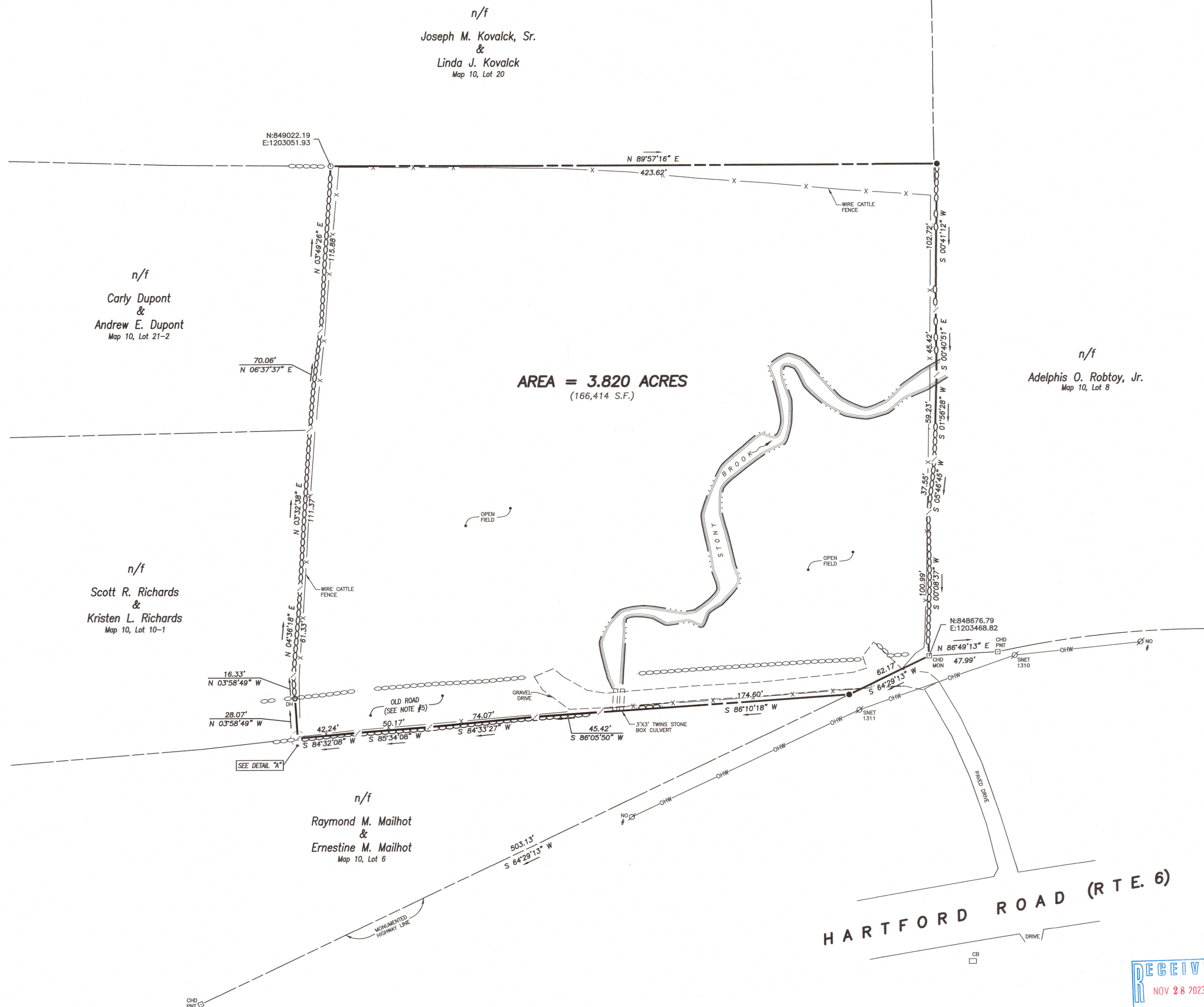
Witnessed By: Killingly Engineering Associates Title: Agent

Copies To: Applicant ✓ Other Killingly Engineering Associates



LEGEND

●	IRON PIN TO BE SET
○	IRON PIN FOUND
○ DH	DRILL HOLE FOUND
□ CHD	CHD MONUMENT FOUND
□ CHD PNT	CHD MONUMENT POINT
○	UTILITY POLE
□ CB	CATCH BASIN
■	INLAND WETLANDS FLAG
— OHW	OVERHEAD WIRES
○○○○○○	STONE WALL



NOTES:

- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Survey Type: Property Survey.
 - Boundary Determination Category: Resurvey
- Zone = RA.
- Owner of record: Robert N. Ross & Teresa D. Ross.
24 Plaza St., Brooklyn, CT 06234
See Volume 715, Page 100
- Parcel is shown as Lot #7 on Assessors Map #10.
- This portion of property was noted as "old road" on the 1935 Connecticut Highway Department Map (Map Reference #1). Warranty deeds conveying ownership of the old road go back to 3/30/1935. See Vol. 23, Pg. 548 of the Brooklyn Land Records.

MAP REFERENCES:

- "Connecticut State Highway Department - Right of Way Map - Town of Brooklyn - Brooklyn - Hampton Road - From Brooklyn Village Westerly to the Hampton Town Line - Route U.S. 6. - Scale: 1" = 40' - Date: November 29, 1935.
- "Property Survey - Proposed Lot Split - Prepared for - Heather Page Sinclair - Cherry Hill Road - Brooklyn, Connecticut - Scale: 1" = 40' Date: September 2004 - Prepared by "PC Survey Associates, LLC". On File in the Brooklyn Land Records in Map Vol. 17, Pg. 18.
- "Subdivision Map - Prepared for - Heather Paige Sinclair - Cherry Hill Road - Brooklyn, Connecticut - Scale: 1" = 40' Date: October 2005 - Prepared by "PC Survey Associates, LLC". On File in the Brooklyn Land Records in Map Vol. 17, Pg. 75.

DATE	DESCRIPTION

PROPERTY SURVEY

PREPARED FOR

**ROBERT N. ROSS &
TERESA D. ROSS**

HARTFORD ROAD (RTE 6)
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



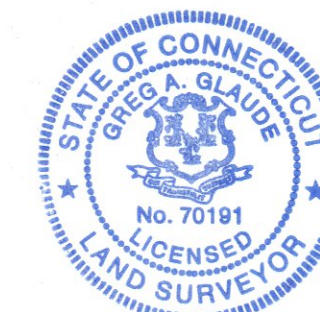
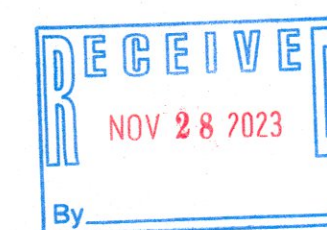
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

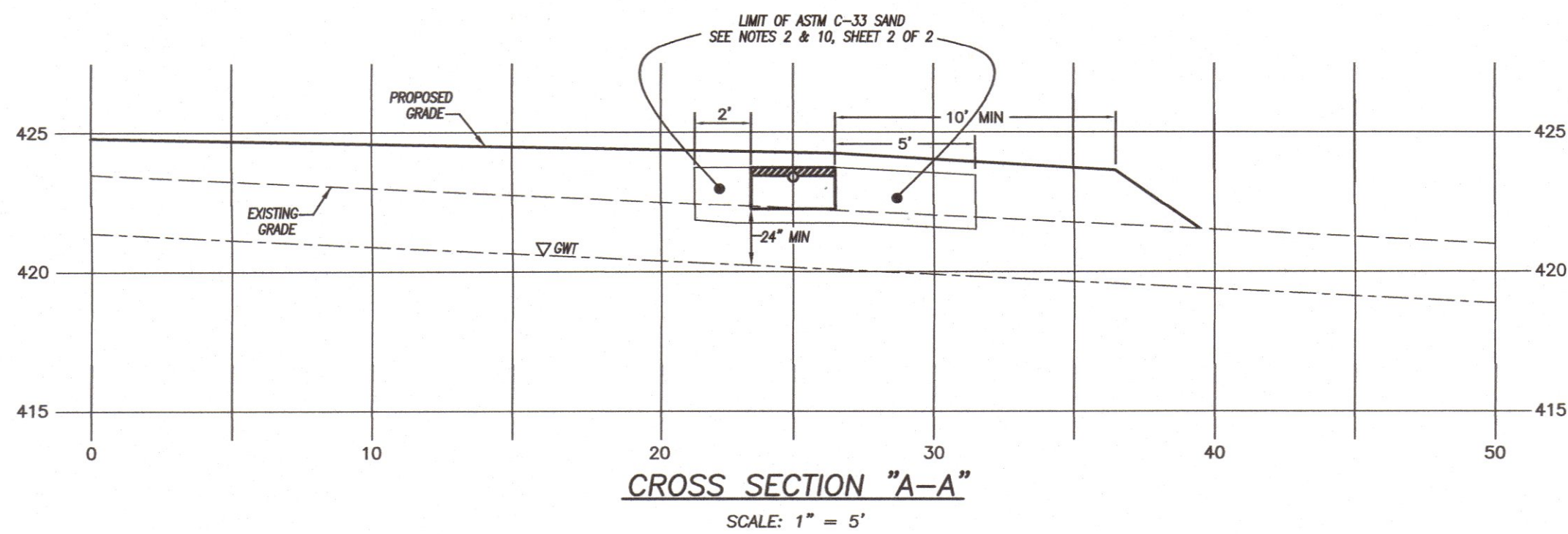
DATE: 10/18/2023	DRAWN: RGS
SCALE: 1" = 40'	DESIGN: --
SHEET: 1 OF 1	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23116

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT
AS NOTED HEREON,

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 11-27-2023

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS
THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.





PERCOLATION TEST RESULT - October 18, 2023
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

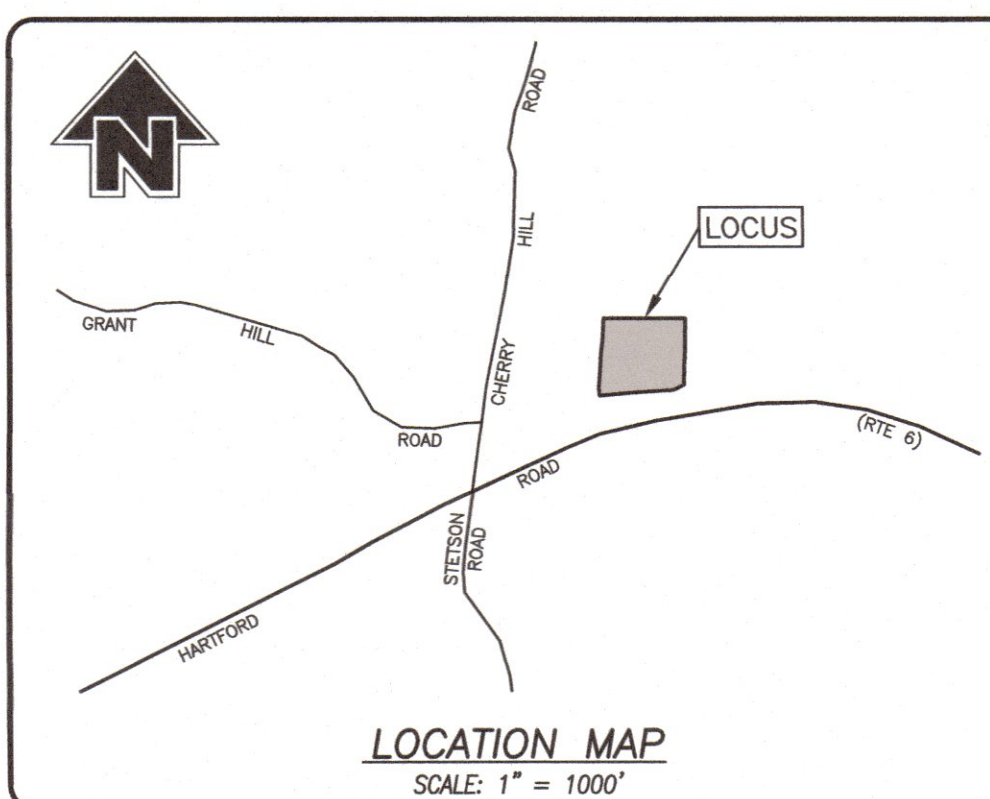
HOLE A	Depth = 22"	Rate = 4.0 min./in.
Time	Reading	
10:08	1"	
10:13	5"	
10:21	9"	
10:26	10.5"	
10:31	12"	
10:36	13.5"	
10:41	15"	
10:43	15.5"	

TEST HOLE DATA - October 18, 2023
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
1	0"-10" 10"-26" 26"-67" 67"-74" Ledge GWT Mottling Restrictive	Topsoil Orange Brown Sandy Loam Mottled Gray Sandy Loam W/Fines Groundwater N/A 56" 27" 27"
2	0"-6" 6"-26" 26"-56" 56"-70" Ledge GWT Mottling Restrictive	Topsoil Orange Brown Sandy Loam Mottled Tan Sandy Loam W/Fines, Compact Groundwater N/A 56" 26" 26"
3	0"-6" 6"-28" 28"-68" 56"-70" Ledge GWT Mottling Restrictive	Topsoil Orange Brown Sandy Loam Mottled Gray Sandy Loam W/Fines, Rock, Compact Groundwater N/A 68" 28" 28"

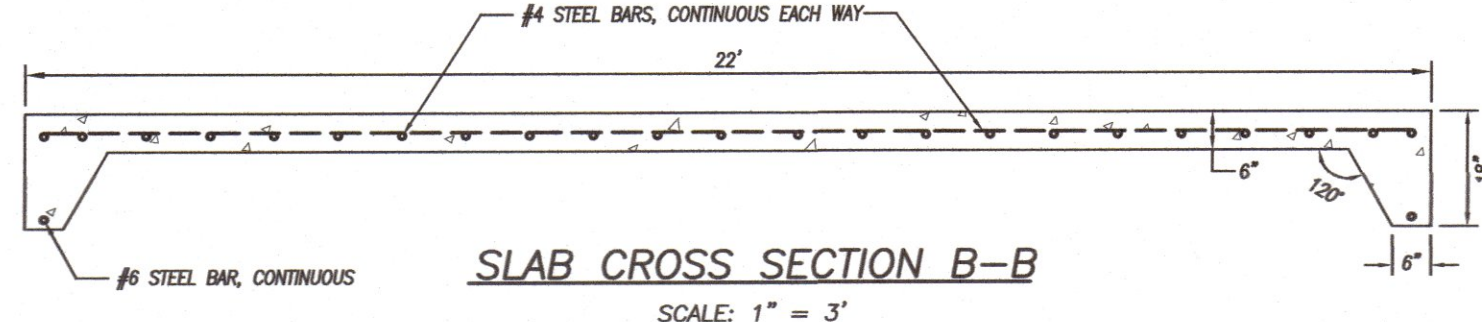
SEPTIC SYSTEM DESIGN DATA

Percolation Rate	= 4 min. / in.
2 bedroom house requires	= 375 s.f. effective leaching area
Effective Leaching area	= 11 s.f. / l.f. of Eljen Mantis
Length Required	= 375/11 = 34 l.f.
Length Provided	= 45 l.f.
Min. Leaching System Spread (MLSS)	= 42 x 1.0 x 1.0 = 42'
MLSS Provided	= 45'
LEACHING FIELD	
One 45' row (9 sections) Eljen Mantis 536-8 septic leaching units	
Maximum depth into existing grade	= 2"
Note: Perc rate less than 5 minutes per inch requires 24" separation from mottling	



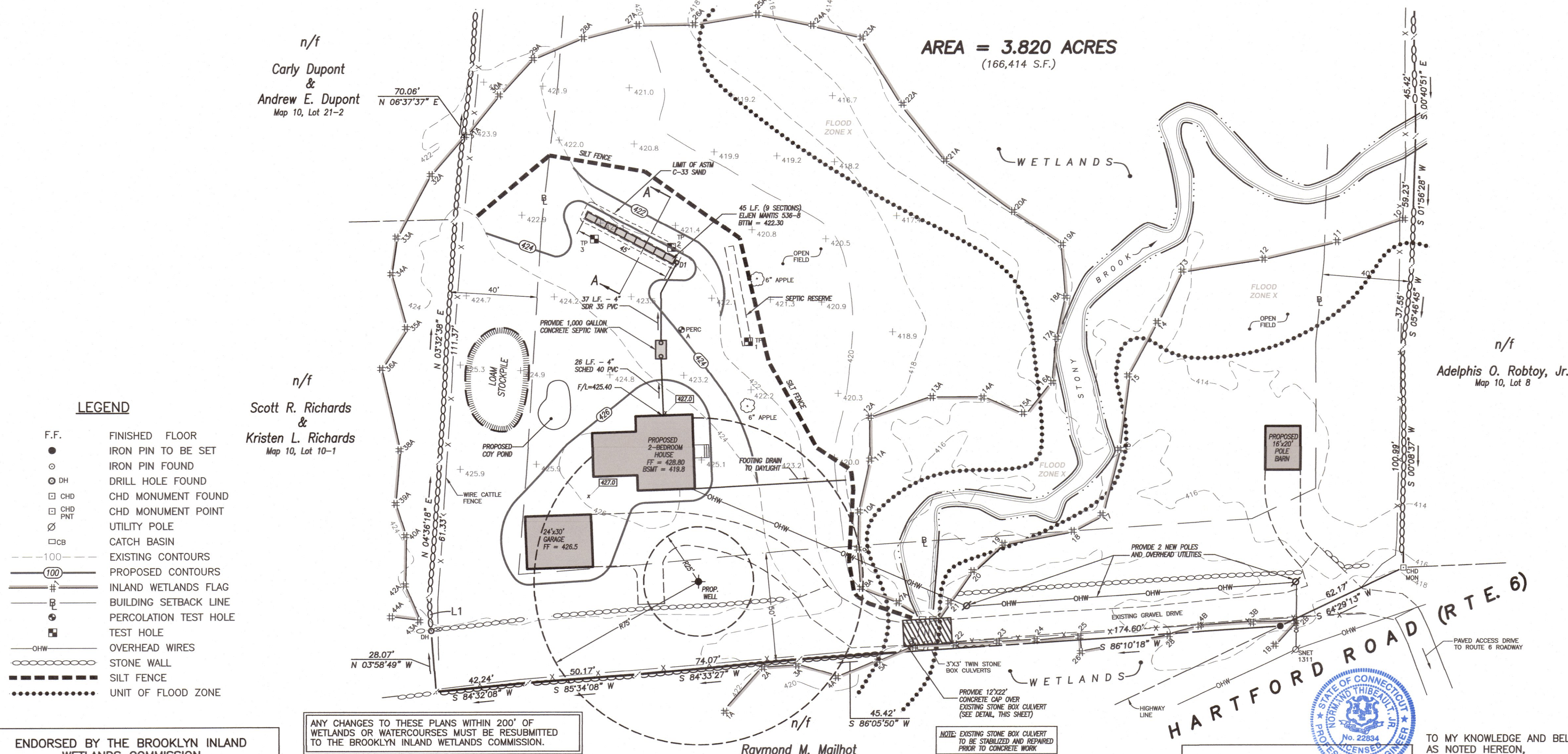
SURVEYOR SHALL SET A BENCH
MARK IN THE AREA OF THE
SEPTIC SYSTEM AT THE TIME
OF CONSTRUCTION STAKE-OUT.

SEPTIC TANK
1000 GALLON TWO COMPARTMENT F/L IN = 424.85 F/L OUT = 424.60
DISTRIBUTION BOX
D-1 (STANDARD) F/L IN = 423.47 F/L OUT = 423.30



- NOTES:
1. PROVIDE CLASS "7" CONCRETE, 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
 2. REINFORCING STEEL SHALL MEET THE REQUIREMENTS OF ASTM A615 AND SHALL BE DEFORMED GRADE 60.

AREA = 3.820 ACRES
(166,414 S.F.)



- LEGEND**
- FINISHED FLOOR
 - IRON PIN TO BE SET
 - IRON PIN FOUND
 - OH DRILL HOLE FOUND
 - CHD CHD MONUMENT FOUND
 - CHD CHD MONUMENT POINT
 - UTILITY POLE
 - CB CATCH BASIN
 - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - INLAND WETLANDS FLAG
 - BUILDING SETBACK LINE
 - PERCOLATION TEST HOLE
 - OHW OVERHEAD WIRES
 - STONE WALL
 - SILT FENCE
 - UNIT OF FLOOD ZONE

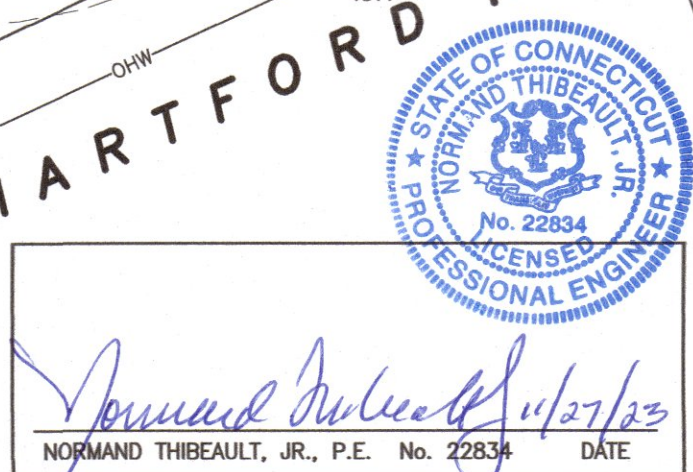
ENDORSED BY THE BROOKLYN INLAND
WETLANDS COMMISSION

CHAIRMAN DATE

ANY CHANGES TO THESE PLANS WITHIN 200' OF
WETLANDS OR WATERCOURSES MUST BE RESUBMITTED
TO THE BROOKLYN INLAND WETLANDS COMMISSION.

THE APPLICANT WILL CONTACT THE BROOKLYN INLAND
WETLANDS COMMISSION OR ITS AGENT AFTER ALL
EROSION AND SEDIMENT CONTROL MEASURES ARE
INSTALLED, PRIOR TO ANY CONSTRUCTION OR EXCAVATION
ON THE PROPERTY.

Raymond M. Mailhot
&
Ernestine M. Mailhot
Map 10, Lot 6



TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT
AS NOTED HEREON.

GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE 11-27-2023

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS
THE ORIGINAL SEAL AND SIGNATURE OF THE LAND SURVEYOR.

NOTES:

1. This survey has been prepared pursuant to the Regulations of the Connecticut State Agencies Sections 20-300b-1 through 20-300b-2 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Resurvey
2. Zone = RA.
3. Owner of record: Robert N. Ross & Teresa D. Ross.
24 Plaza St., Brooklyn, CT 06234
See Volume 715, Page 100
4. Parcel is shown as Lot #7 on Assessors Map #10.
5. Flood Hazard Zone location taken from FIRM Map #09015C0220F. Effective Date: Sept. 7, 2023.
6. Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
7. Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, on 10/04/2023.
8. North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
9. Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

MAP REFERENCES:

1. "Connecticut State Highway Department - Right of Way Map - Town of Brooklyn - Brooklyn - Hampton Road - From Brooklyn Village Western to the Hampton Town Line - Route U.S.6. - Scale: 1" = 40' - Date: November 29, 1935".
2. "Property Survey - Proposed Lot Split - Prepared for - Heather Paige Sinclair - Cherry Hill Road - Brooklyn, Connecticut - Scale: 1" = 40' - Date: September 2004 - Prepared by "PC Survey Associates, LLC". On File in the Brooklyn Land Records in Map Vol. 17, Pg. 18.
3. "Subdivision Map - Prepared for - Heather Paige Sinclair - Cherry Hill Road - Brooklyn, Connecticut - Scale: 1" = 40' - Date: October 2005 - Prepared by "PC Survey Associates, LLC". On File in the Brooklyn Land Records in Map Vol. 17, Pg. 75.

DATE	DESCRIPTION
	REVISIONS

IMPROVEMENT LOCATION SURVEY SEPTIC SYSTEM DESIGN PLAN PREPARED FOR

ROBERT N. ROSS &
TERESA D. ROSS

HARTFORD ROAD (RTE 6)
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 799-7299
www.killinglyengineering.com

DATE: 10/19/2023	DRAWN: RGS
SCALE: 1" = 30'	DESIGN: NET
SHEET: 1 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23116

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.
- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.

SEPTIC SYSTEM CONSTRUCTION NOTES

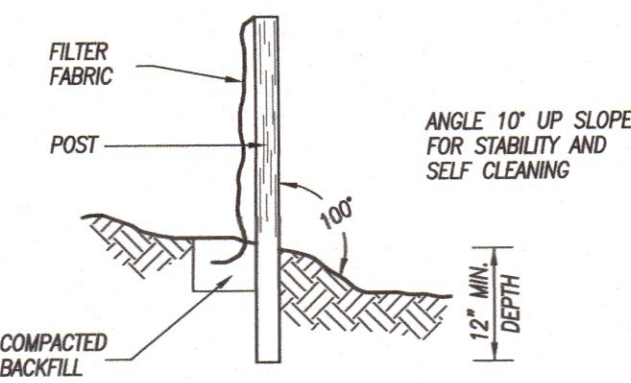
- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

SIEVE SIZE	GRADATION OF FILL (MINUS GRAVEL)	
	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	0% - 5%
No. 200	0% - 5%	0% - 2.5%

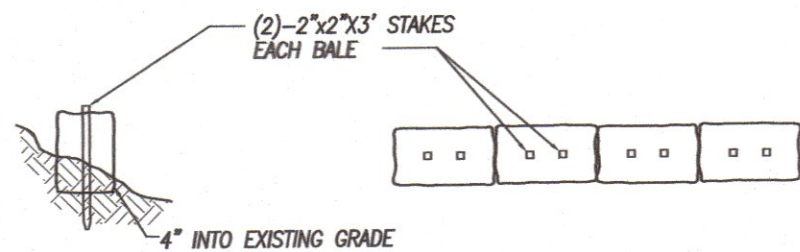
Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.

- Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case have a slope less than 0.125 inches per foot.
- Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 or ASTM F1760 for SDR 35, or ASTM F810 for SDR 38.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.
- Septic sand shall meet the requirements of ASTM C-33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve

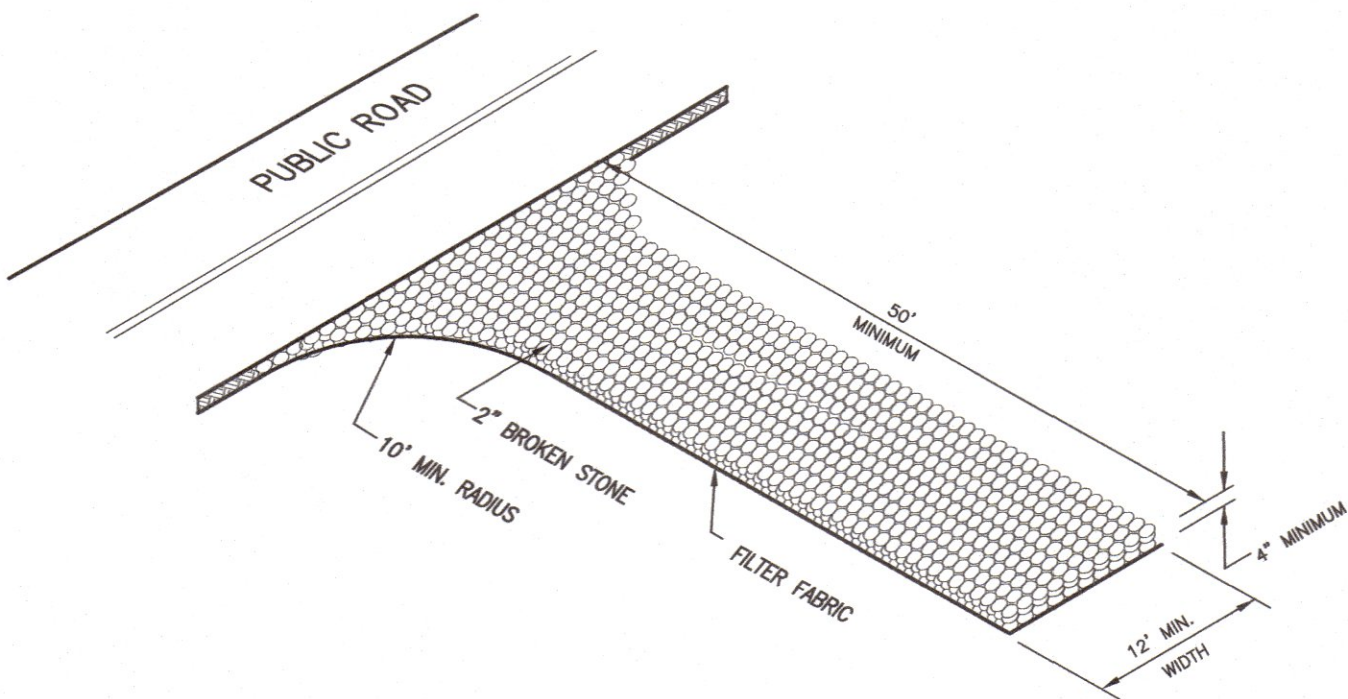
SIEVE SIZE	% PASSING
0.375	100
#4	95-100
#8	80-100
#16	60-85
#30	25-60
#50	10-30
#100	<10
#200	<5



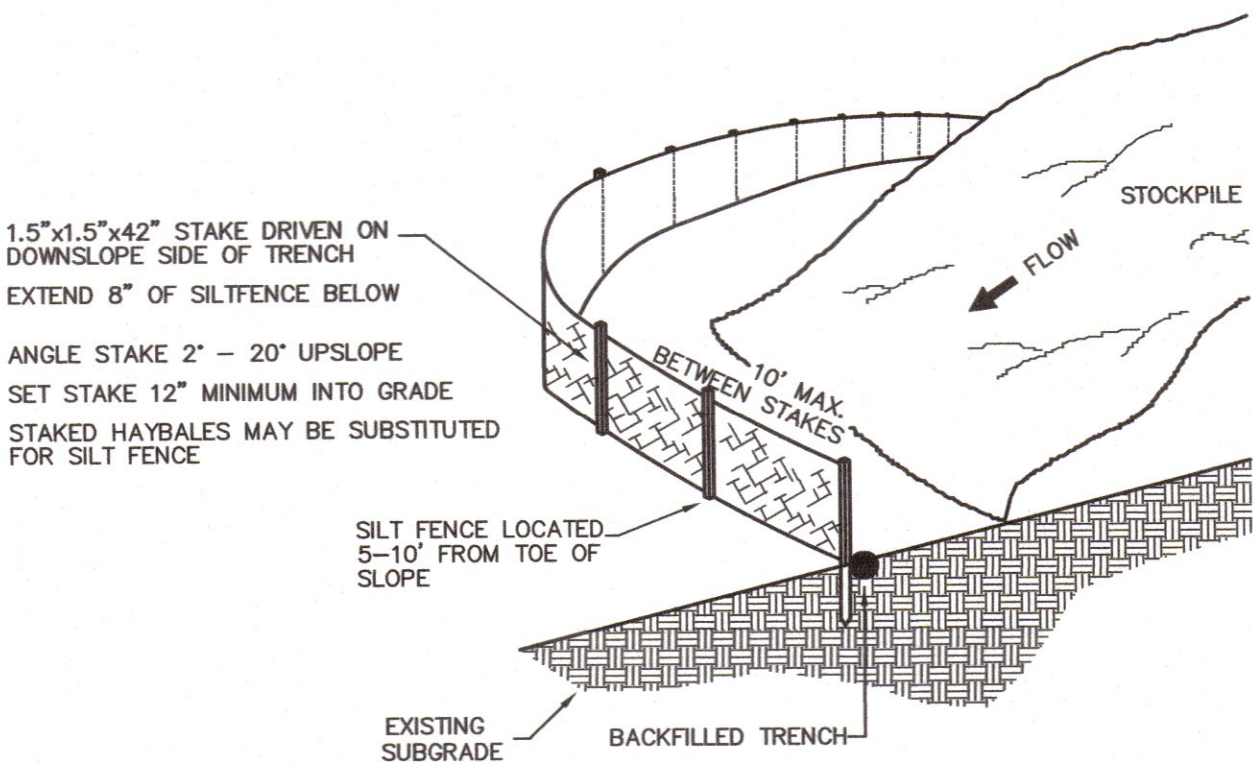
SILT FENCE
NOT TO SCALE



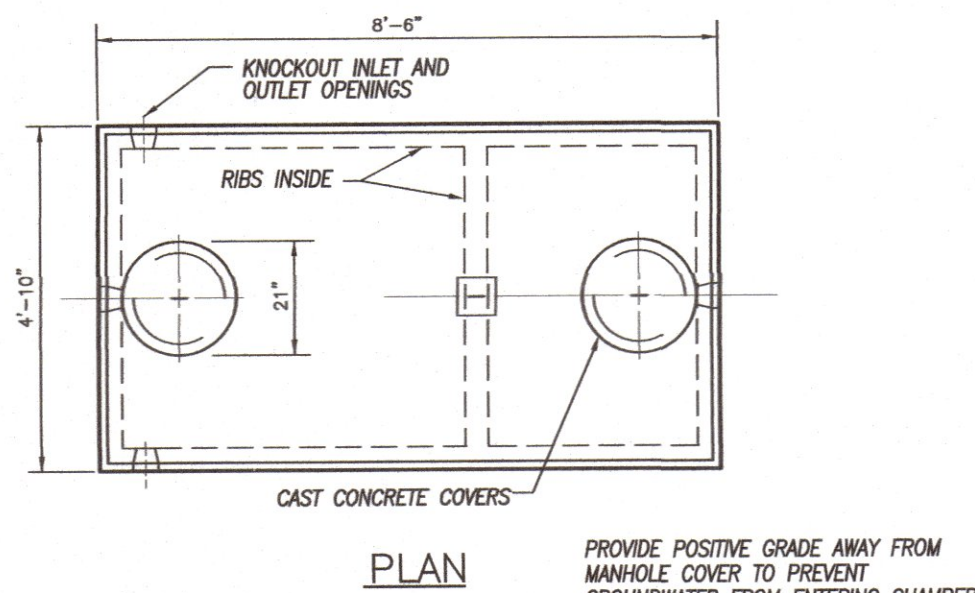
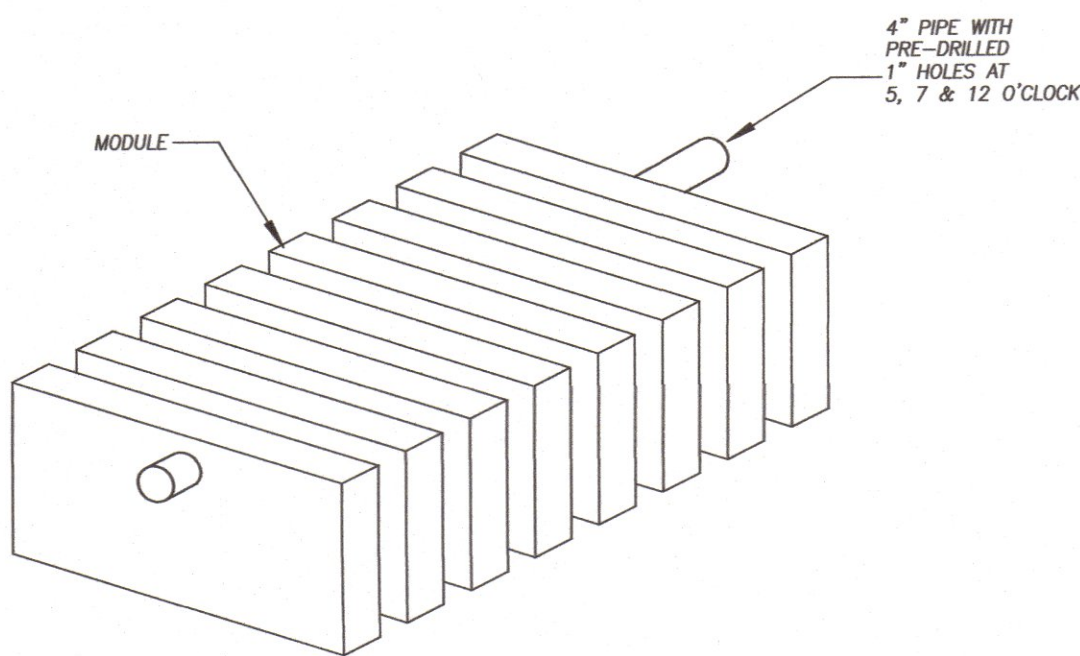
HAYBALE BARRIER
NOT TO SCALE



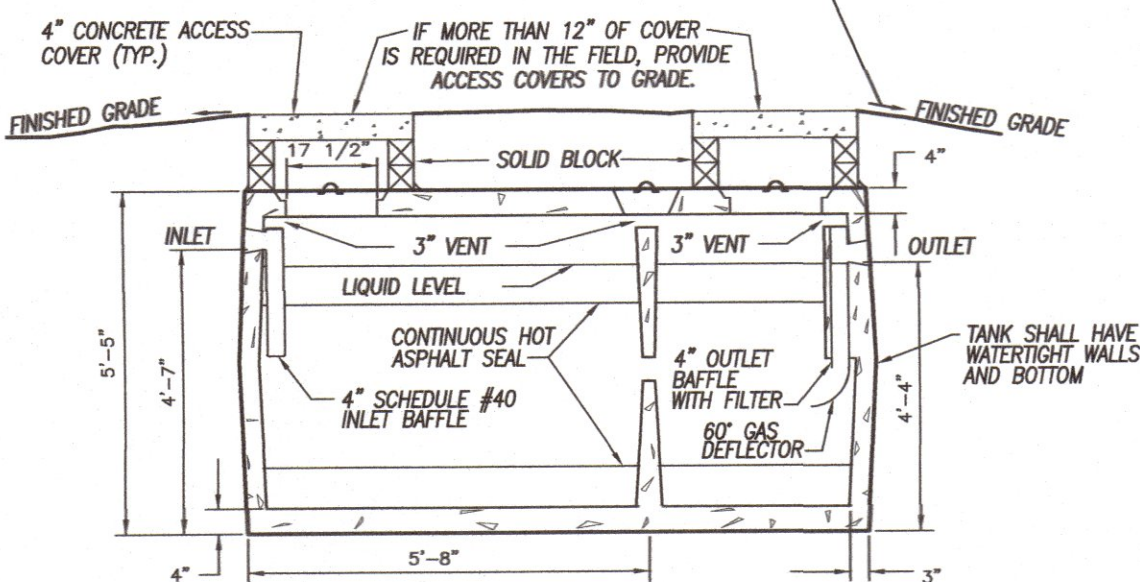
ANTI-TRACKING PAD
NOT TO SCALE



SILT FENCE @ TOE OF SLOPE APPLICATION
NOT TO SCALE

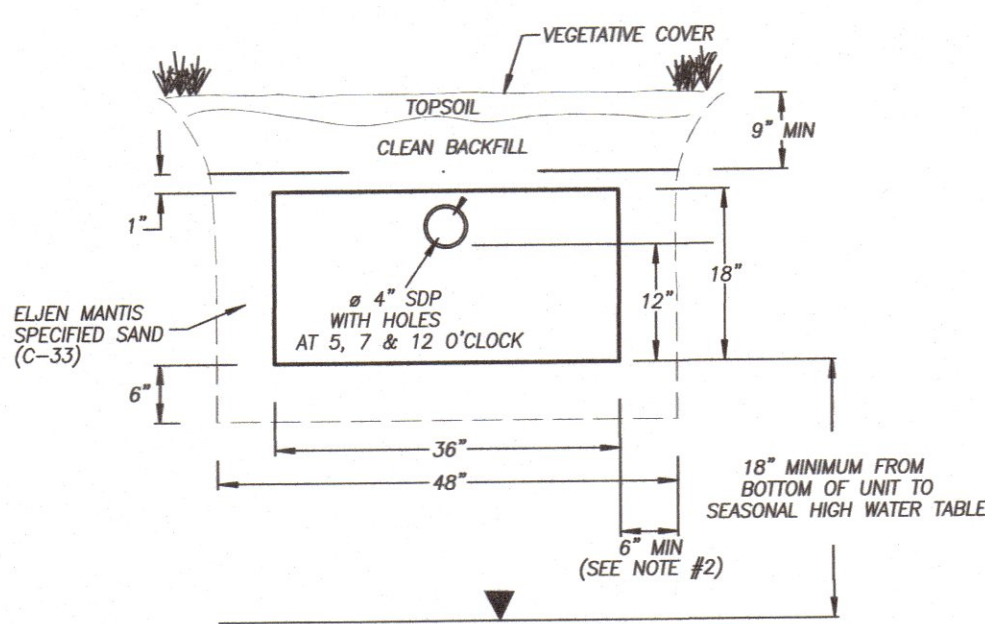


PLAN



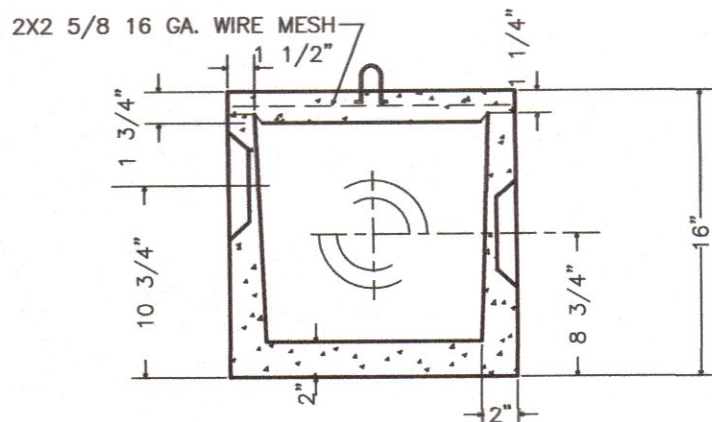
CROSS SECTION

1000 GALLON
2 COMPARTMENT
SEPTIC TANK
NOT TO SCALE



- NOTES:
- VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE.
 - FOR SYSTEMS INSTALLED IN FILL, CONTRACTOR SHALL PROVIDE 5' OF SELECT FILL OR ASTM C-33 SAND 5' AROUND PERIMETER OF SYSTEM.

ELJEN 536-8 WASTEWATER
LEACHING SYSTEM



STANDARD D-BOX
NOT TO SCALE



Norman Thibault, Jr. 10/19/23
NORMAN THIBAUT, JR., P.E. No. 22834 DATE

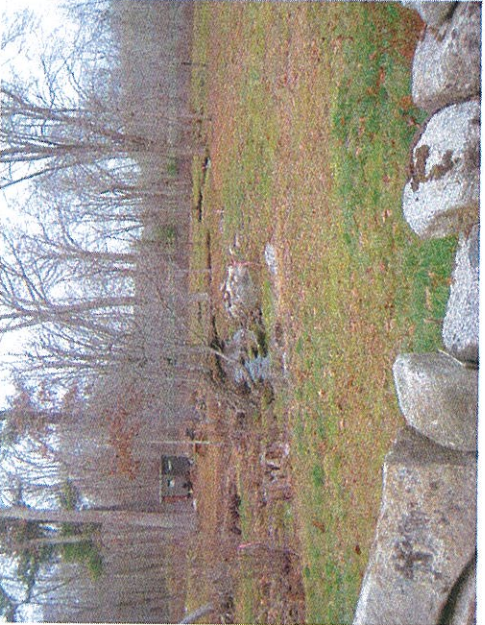
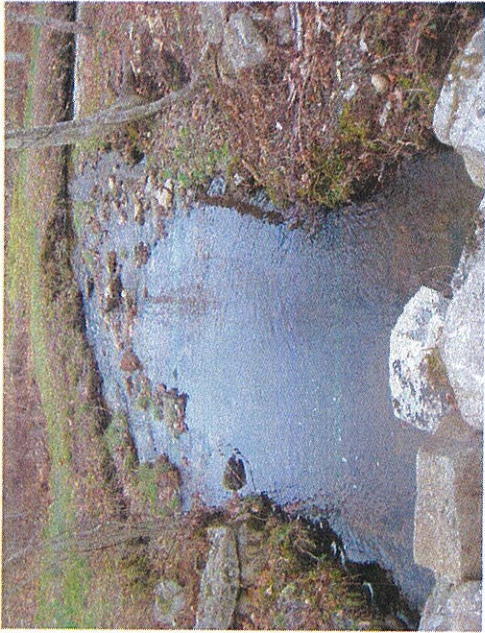
DATE	DESCRIPTION
	REVISIONS

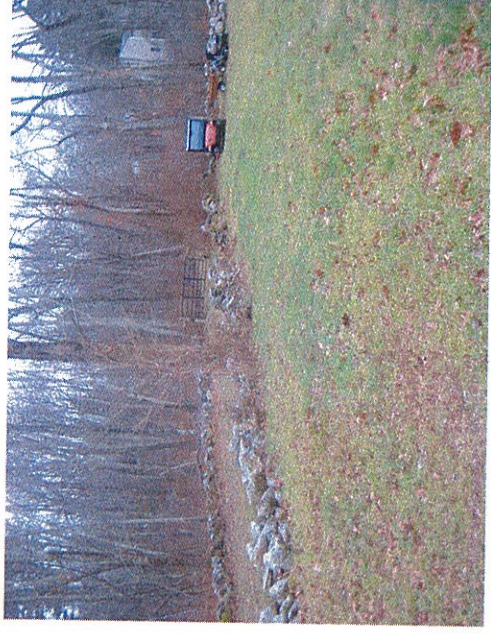
DETAIL SHEET
PREPARED FOR
**ROBERT N. ROSS &
TERESA D. ROSS**

HARTFORD ROAD (RTE 6)
BROOKLYN, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
(860) 779-7299
www.killinglyengineering.com

DATE: 10/19/2023	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 2 OF 2	CHK BY: ---
DWG. No: CLIENT FILE	JOB No: 23116





Killingly Engineering Associates

Civil Engineering & Surveying



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

March 11, 2024

Proposed Single Family Home

Greg Lehto
Lot 5 Beecher Road
Brooklyn, CT

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:
 - \$150.00 (Base fee)
 - \$ 50.00 (Publication fee)
 - \$ 60.00 (State fee)
 - \$260.00 Total
2. 5- full sized sets of plans dated 2/22/2024
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Web Soil Survey Map
7. GIS mapping
8. Applicant's Certification

INLAND WETLANDS & WATERCOURSES COMMISSION

TOWN OF BROOKLYN
CONNECTICUT

Date _____

Application # W _____

Check # _____

APPLICATION FOR INLAND WETLANDS PERMIT

Name of Applicant VBL PROPERTIES, LLC Phone 860-786-8050

Mailing Address 8 KINN LANE, PLAINFIELD, CT 06374

Applicants Interest in the Property OWNER

Property Owner SAME Phone _____

Mailing Address _____

Name of Engineer/Surveyor KILLINGLY ENGINEERING ASSOCIATES, LLC

Address P.O. Box 421, KILLINGLY, CT 06241

Contact Person NORMAN TUBESCU, JR, PE Phone _____ Fax _____

Name of Attorney N/A

Address _____

Phone _____ Fax _____

Property location/Address _____

Map # _____ Lot # _____ Zone _____ Total Acres _____ Acres of Wetlands _____

Purpose and Description of the Activity CONSTRUCTION OF A SINGLE-FAMILY HOME
WITH ACTIVITY IN THE 125 UPLAND REVIEW

Wetlands Excavation and Fill:

Fill Proposed 0 Cubic Yds _____ Sq ft _____

Excavation Proposed 0 Cubic Yds _____ Sq ft _____

Location where material will be placed: On Site _____ Off Site _____

Total Regulated Area altered: Sq ft 0 Acres _____

Explain any alternatives that were considered None - No Wetlands Disturbance
Proposed

Mitigation Measures if Required: Silt Fence

Wetlands or watercourses created: Cubic Yds _____ Sq ft 0 Acres _____

Is parcel located within 500ft of an adjoining Town? No

Is the activity located within the watershed of a water company as defined in CT General Statutes 25-32a?

No

REQUIREMENTS

- Application Fee \$ SEE ATTACHED State Fee (\$60.00) _____
- Completion of DEP Reporting Form
- Compliance with the Inland Wetlands & Watercourses Regulations
- Three (30) copies of all materials required shall be submitted
- Pre application meeting with the Wetlands Agent is recommended to examine the scope of the activity
- Site Plan showing location of the wetlands (Commission may require a soil scientist to identify the wetlands), existing and proposed conditions
- Compliance with the 2002 Erosion & Sedimentation Control Manual
- If the proposed activity is deemed to be a "significant impact activity" a Public Hearing is required along with the following information:
 - Names and addresses of abutting property owners
 - Additional Information as contained in Article 6.17

Other applications if required:

Application to State of Connecticut DEP
Inland Water Resources Division
79 Elm St.
Hartford, Ct. 06106 1-860-424-3019

Department of the Army
Corps of Engineers
696 Virginia Road
Concord, Ma. 01742 1-860-343-4789

The owner and applicant hereby grant the Brooklyn Inland Wetlands and Watercourses Commission, the Board of Selectman, Authorized Agents of the Inland Wetlands and Watercourses Commission or Board of Selectman, permission to enter the property to which the application is requested for the purpose of inspection and enforcement of the Inland Wetlands and Watercourses Regulations of the Town of Brooklyn.

Applicant: Greg Lehto Date 3/11/24

Owner: Greg Lehto Date 3/11/24

*Note : All consulting fees shall be paid by the applicant



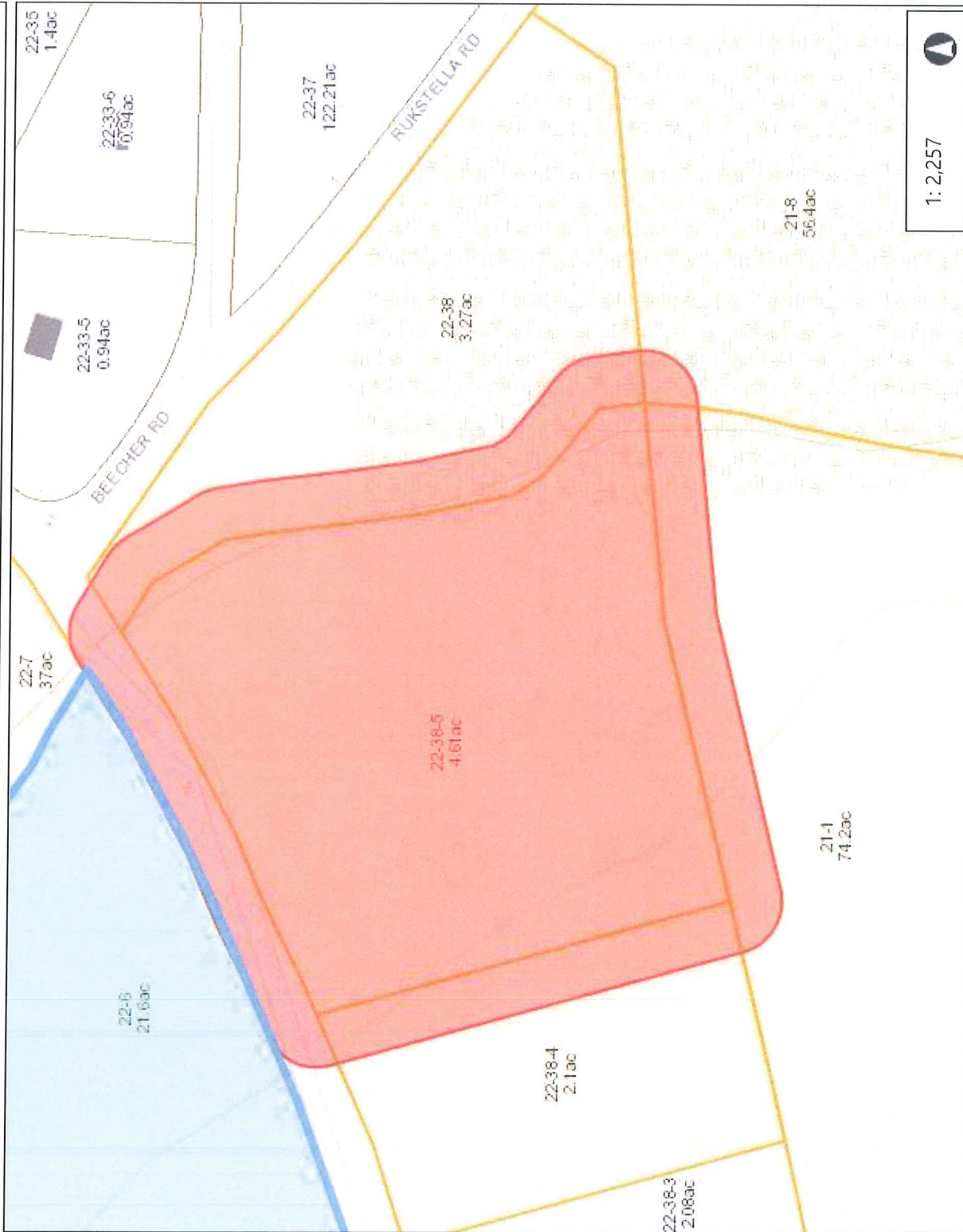
Necog GIS Site



- Legend
- Town
 - Buildings 2012
 - Parcels

Notes

Enter Map Description



1:2,257



0.1 Miles



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

POLLOCK SHANE JAY
101 MACKLIN DR
GRISWOLD CT 06357

BROOKLYN TOWN OF
PO BOX 356
BROOKLYN CT 06234-0356

CUSTOM BUILT HOMES BY GREG LEHTO LLC
25 COLBRIDGE RD
PLAINFIELD CT 06374

TYLER CHARLES H
495 NORTH SOCIETY RD
CANTERBURY CT 06331

MEROW COREY GENE & ELIZABETH KELLY
26 BEECHER RD
BROOKLYN CT 06234

VBL PROPERTIES LLC
8 FINN LANE
PLAINFIELD CT 06374

VBL PROPERTIES LLC
8 FINN LANE
PLAINFIELD CT 06374

Statewide Inland Wetlands & Watercourses Activity Reporting Form

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

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions - one code only): _____
3. WAS A PUBLIC HEARING HELD (check one)? yes ☐ no ☐
4. 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

5. TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Bromley
does this project cross municipal boundaries (check one)? yes ☐ no ☒
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
6. LOCATION (see instructions for information): USGS quad name: Bromley or number: 43
subregional drainage basin number: 374
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): VBL PROPERTIES
8. NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): BRACK ROAD, LOT 5
briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: CONSTRUCTION OF A SINGLE-FAMILY HOME
9. ACTIVITY PURPOSE CODE (see instructions - one code only): B
10. ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14
11. WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
12. UPLAND AREA ALTERED (must provide acres): 0.7 acres
13. 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:

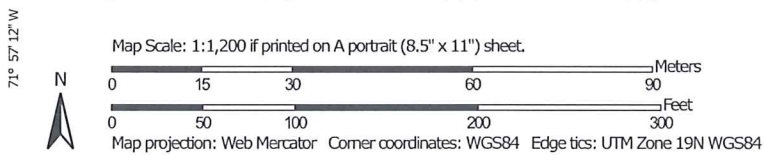
FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO

Soil Map—State of Connecticut, Eastern Part
(Lot 5 Beecher Road)



Soil Map may not be valid at this scale.






































Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/11/2024
Page 1 of 3

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	
 Spoil Area	
 Stony Spot	
 Very Stony Spot	
 Wet Spot	
 Other	
 Special Line Features	
Water Features	
 Streams and Canals	
Transportation	
 Rails	
 Interstate Highways	
 US Routes	
 Major Roads	
 Local Roads	
Background	
 Aerial Photography	

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, Eastern Part
Survey Area Data: Version 1, Sep 15, 2023

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

Date(s) aerial images were photographed: Jun 14, 2022—Jul 1, 2022

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
38C	Hinckley loamy sand, 3 to 15 percent slopes	2.3	34.0%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	0.1	1.1%
108	Saco silt loam, frequently ponded, 0 to 2 percent slopes, frequently flooded	0.9	13.7%
701B	Ninigret fine sandy loam, 3 to 8 percent slopes	3.4	51.1%
Totals for Area of Interest		6.7	100.0%



Killingly Engineering Associates

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

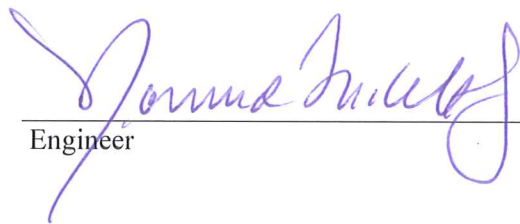
February 15, 2024

Greg Lehto
Lot 5 Beecher Road
Brooklyn, CT

Per Section 7.7 of the Inland Wetland and Watercourses regulations

The applicant's representative certifies that:

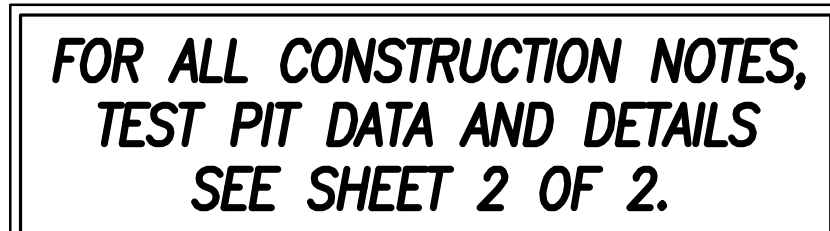
- a. The property on which the regulated activity is proposed is not located within 500 feet of the boundary of an adjoining municipality);
- b. Traffic attributable to the completed project on the site will not use streets within the adjoining municipality to enter or exit the site;
- c. Sewer or water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



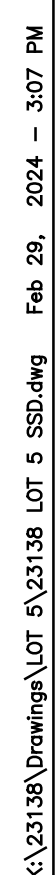
Engineer

3/11/24

Date



* Percolation rate less than 5 minutes per inch requires 24" separation from mottling



EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

The primary function of erosion and sediment controls is to absorb erosional energies and reduce runoff velocities that force the detachment and transport of soil and/or encourage the deposition of eroded soil particles before they reach any sensitive area.

KEEP LAND DISTURBANCE TO A MINIMUM

The more land that is in vegetative cover, the more surface water will infiltrate into the soil, thus minimizing stormwater runoff and potential erosion. Keeping land disturbance to a minimum not only involves minimizing the extent of exposure at any one time, but also the duration of exposure. Phasing, sequencing and construction scheduling are interrelated. Phasing divides a large project into distinct sections where construction work over a specific area occurs over distinct periods of time and each phase is not dependent upon a subsequent phase in order to be functional. A sequence is the order in which construction activities are to occur during any particular phase. A sequence should be developed on the premise of "first things first" and "last things last" with proper attention given to the inclusion of adequate erosion and sediment control measures. A construction schedule is a sequence with time lines applied to it and should address the potential overlap of actions in a sequence which may be in conflict with each other.

- Limit areas of clearing and grading. Protect natural vegetation from construction equipment with fencing, tree armoring, and retaining walls or tree wells.
- Route traffic patterns within the site to avoid existing or newly planted vegetation.
- Phase construction so that areas which are actively being developed at any one time are minimized and only that area under construction is exposed. Clear only those areas essential for construction.
- Sequence the construction of storm drainage systems so that they are operational as soon as possible during construction. Ensure all outlets are stable before outletting storm drainage flow into them.
- Schedule construction so that final grading and stabilization is completed as soon as possible.

SLOW THE FLOW

Detachment and transport of eroded soil must be kept to a minimum by absorbing and reducing the erosive energy of water. The erosive energy of water increases as the volume and velocity of runoff increases. The volume and velocity of runoff increases during development as a result of reduced infiltration rates caused by the removal of existing vegetation, removal of topsoil, compaction of soil and the construction of impervious surfaces.

- Use diversions, stone dikes, silt fences and similar measures to break flow lines and dissipate storm water energy.
- Avoid diverting one drainage system into another without calculating the potential for downstream flooding or erosion.

KEEP CLEAN RUNOFF SEPARATED

Clean runoff should be kept separated from sediment laden water and should not be directed over disturbed areas without additional controls. Additionally, prevent the mixing of clean off-site generated runoff with sediment laden runoff generated on-site until after adequate filtration of on-site waters has occurred.

- Segregate construction waters from clean water.
- Divert site runoff to keep it isolated from wetlands, watercourses and drainage ways that flow through or near the development until the sediment in that runoff is trapped or detained.

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

While it may seem less complicated to collect all waters to one point of discharge for treatment and just install a perimeter control, it can be more effective to apply internal controls to many small sub-drainage basins within the site. By reducing sediment loading from within the site, the chance of perimeter control failure and the potential off-site damage that it can cause is reduced. It is generally more expensive to correct off-site damage than it is to install proper internal controls.

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.

- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.

- Determine the need for sediment basins. Sediment basins are required on larger developments where major grading is planned and where it is impossible or impractical to control erosion at the source. Sediment basins are needed on large and small sites when sensitive areas such as wetlands, watercourses, and streets would be impacted by off-site sediment deposition. Do not locate sediment basins in wetlands or permanent or intermittent watercourses. Sediment basins should be located to intercept runoff prior to its entry into the wetland or watercourse.

SEPTIC SYSTEM CONSTRUCTION NOTES

- The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
- Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:
 - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	0% - 5%
No. 200	0% - 5%	0% - 2.5%

Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.

- Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks, distribution boxes, etc. shall be set level on six inches (6") of compacted gravel base at the elevations specified on the plans.
- Solid distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 SDR 35 with compression gasket joints. It shall be laid true to the lines and grades shown on the plans and in no case shall have a slope less than 0.125 inches per foot.
- Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-3034 or ASTM F1760 for SDR 35, or ASTM F810 for SDR 38.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.
- Septic sand shall meet the requirements of ASTM C-33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve

SIEVE SIZE	% PASSING
0.375	100
#4	95-100
#8	80-100
#16	60-85
#30	25-60
#50	10-30
#100	<10
#200	<5

TEST HOLE DATA - March 20, 2018
Northeast District Department of Health

TEST PIT	DEPTH	PROFILE
5A	0"-7"	Topsoil
	7"-28"	Loamy Sand
	28"-61"	Grey Very Fine Loamy Sand, Mottled
	Ledge	N/A
	GWT	N/A
	Mottling	28"
5B	0"-12"	Topsoil
	12"-38"	Loamy Sand
	38"-75"	Grey Compact Very Fine Loamy Sand
	Ledge	N/A
	GWT	N/A
	Mottling	38"

TEST HOLE DATA - February 8, 2024
Northeast District Department of Health

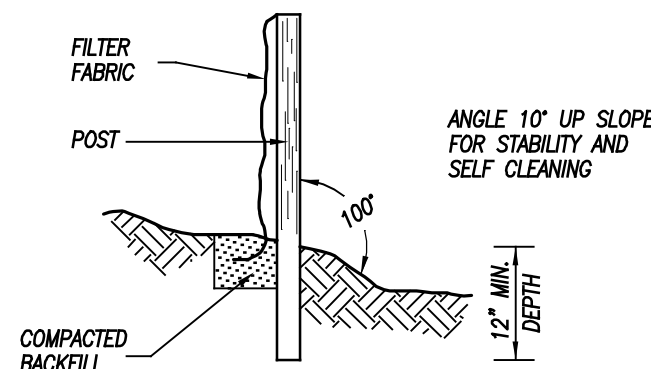
TEST PIT	DEPTH	PROFILE
101	0"-8"	Topsoil/Organics
	8"-41"	Red/Brown Loamy Sand, Silty Rocks
	41"-68"	Grey Loamy Fine Sand W/Rocks, Mottled
	68"-99"	Comp. Grey Saturated Sandy Loam
	99"-108"	Groundwater
	Ledge	N/A
102	0"-8"	Topsoil/Organics
	8"-26"	Red/Brown Loamy Sand, Silty
	26"-42"	Moist Tan Loamy Sand
	42"-99"	Grey Mottled Fine Sand W/Rocks
	99"-108"	Groundwater
	Ledge	N/A
103	0"-13"	Topsoil/Organics
	13"-21"	Red/Brown Loamy Sand
	21"-40"	Tan Loamy Fine Sand, Moist
	40"-99"	Med. Coarse Sand W/Loam, Wet, Grey
	99"-108"	Grey Wet Sandy Loam
	Ledge	N/A

PERCOLATION TEST RESULT - March 20, 2018
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

HOLE 5A		
Depth = 27"	Rate = 7 min./in.	
Time	Reading	
10:30	5.5"	
10:51	8.5"	
11:06	14.0"	

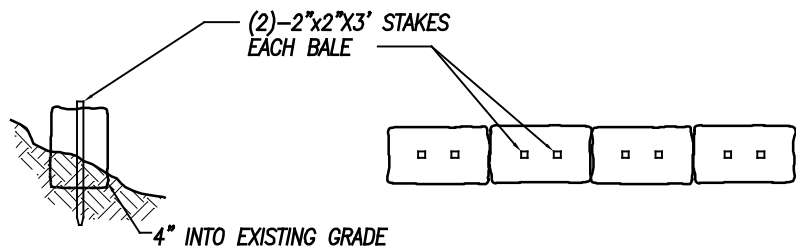
PERCOLATION TEST RESULT - February 8, 2024
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

HOLE AA		
Depth = 22"	Rate = 3.5 min./in.	
Time	Reading	
11:41	5.5"	
11:44	9.0"	
11:47	10.75"	
11:50	12.0"	
11:56	14.5"	
12:03	16.5"	
12:10	18.5"	



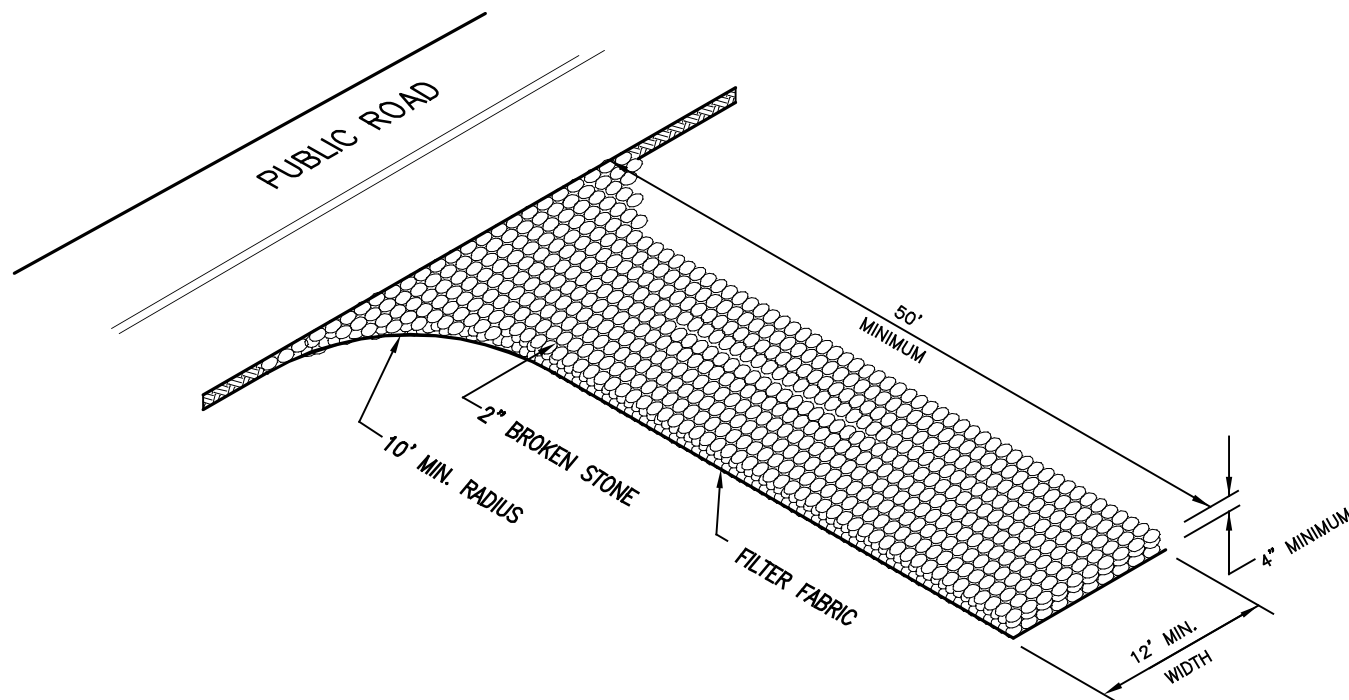
SILT FENCE

NOT TO SCALE



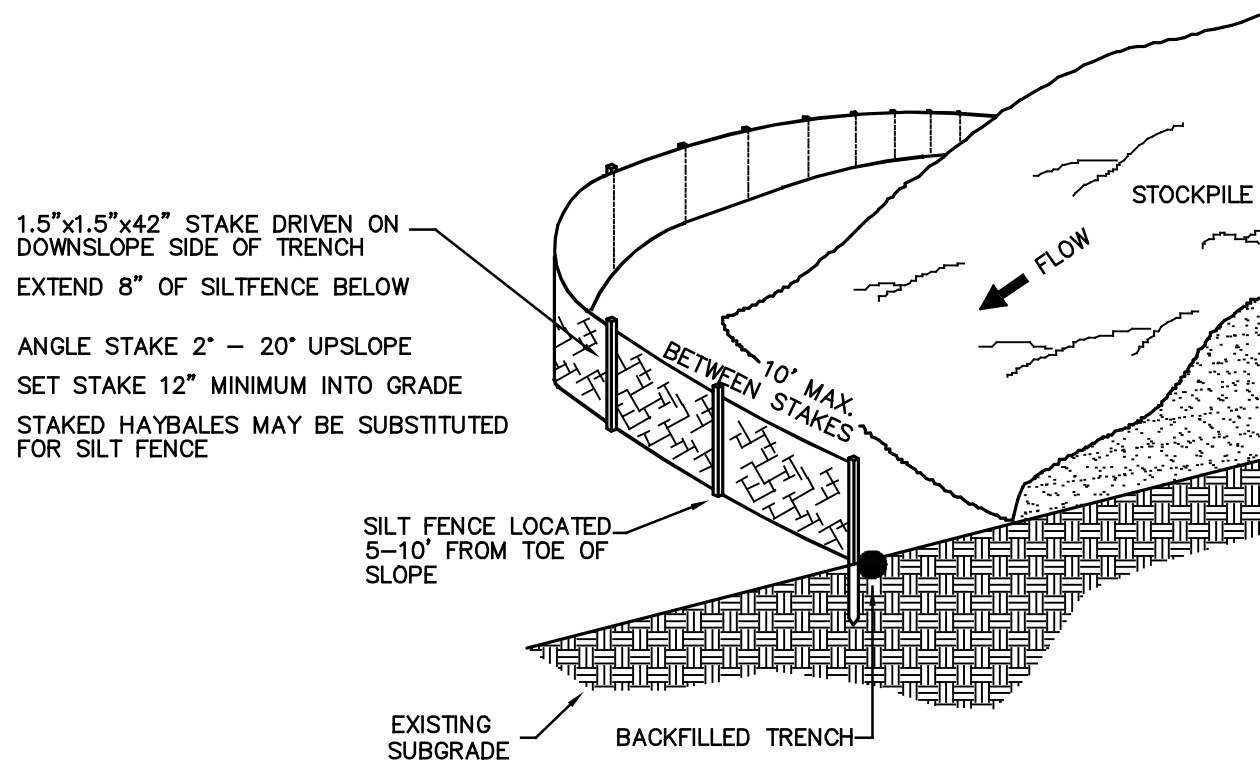
HAYBALE BARRIER

NOT TO SCALE



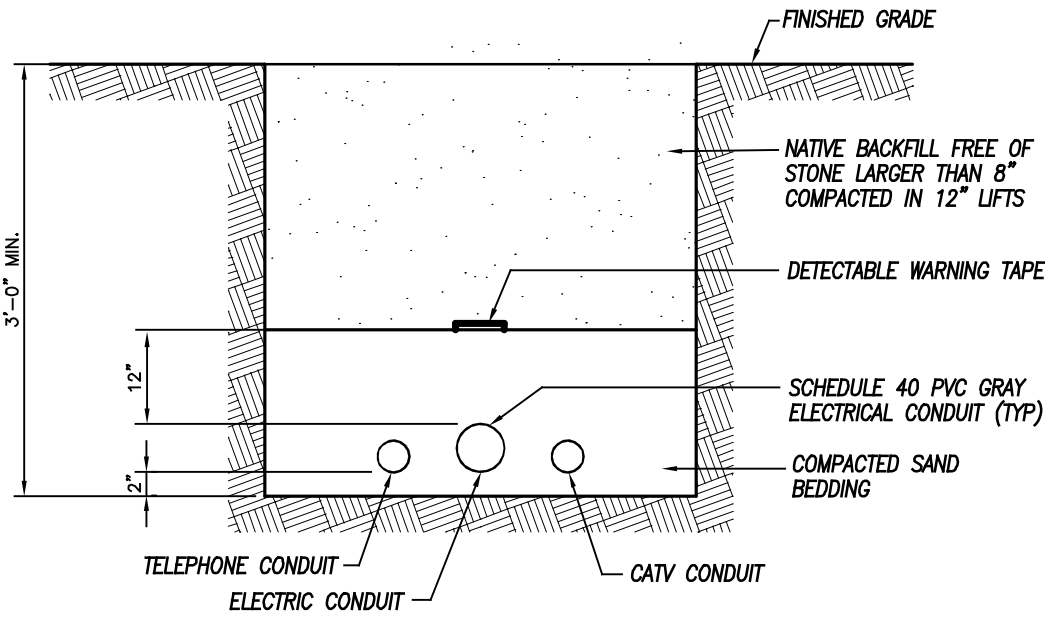
ANTI-TRACKING PAD

NOT TO SCALE



SILT FENCE @ TOE OF SLOPE APPLICATION

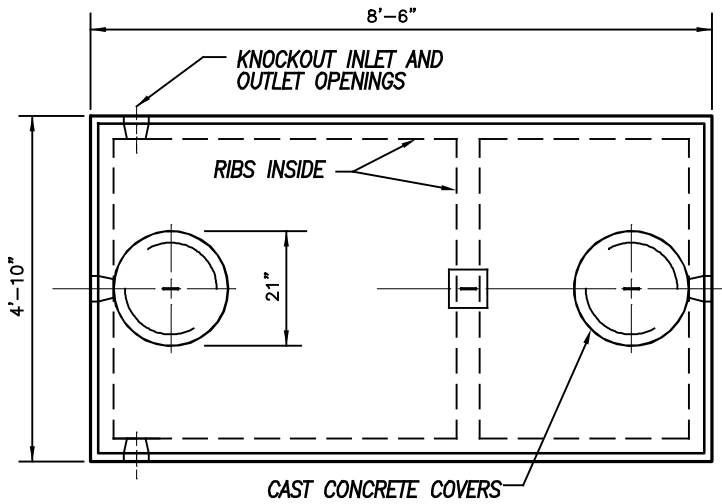
NOT TO SCALE



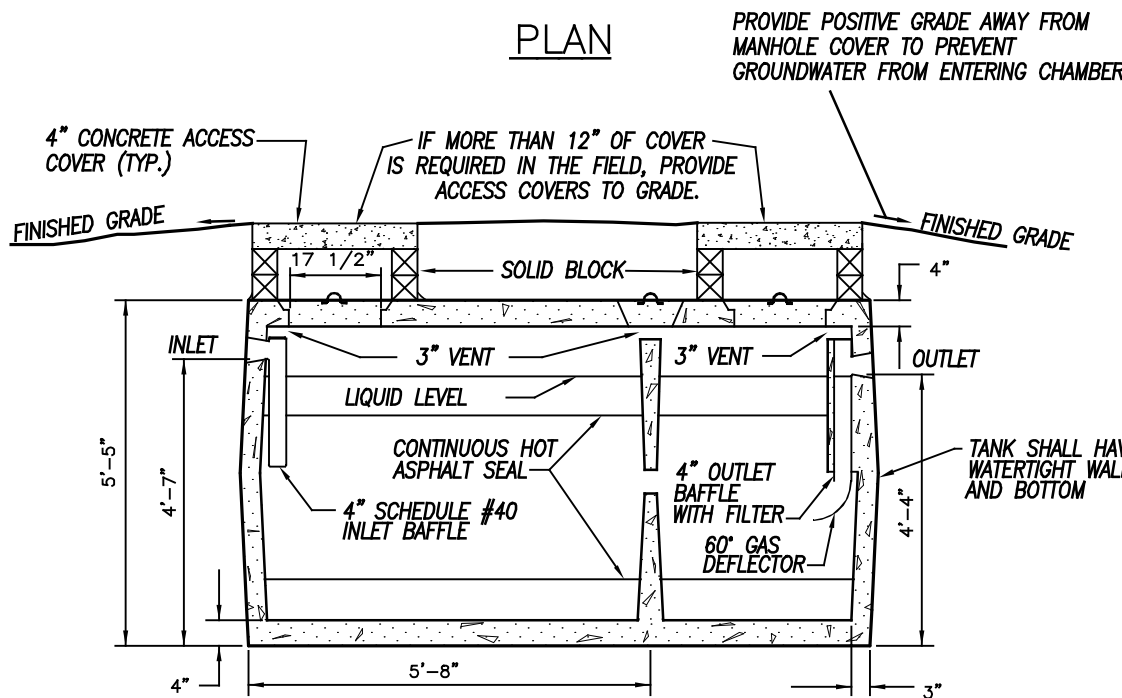
NOTE: CONTRACTOR SHALL PROVIDE SILT/CLAY DAMS AT 100' INTERVALS ALONG PROPOSED UTILITY TRENCH TO AVOID TRANSPORTING INTERCEPTED WATER.

UNDERGROUND UTILITY TRENCH

NOT TO SCALE



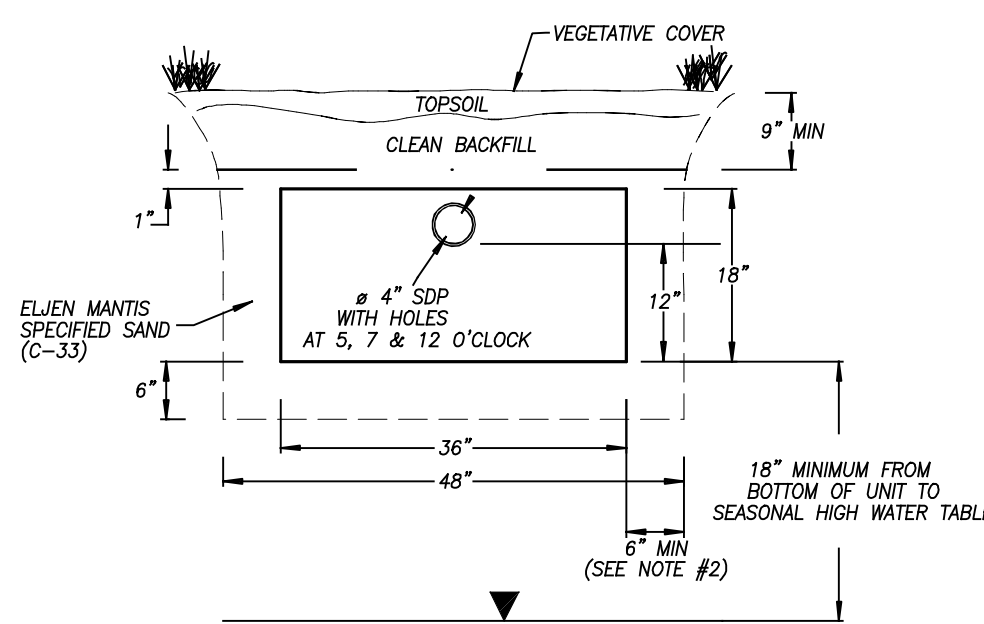
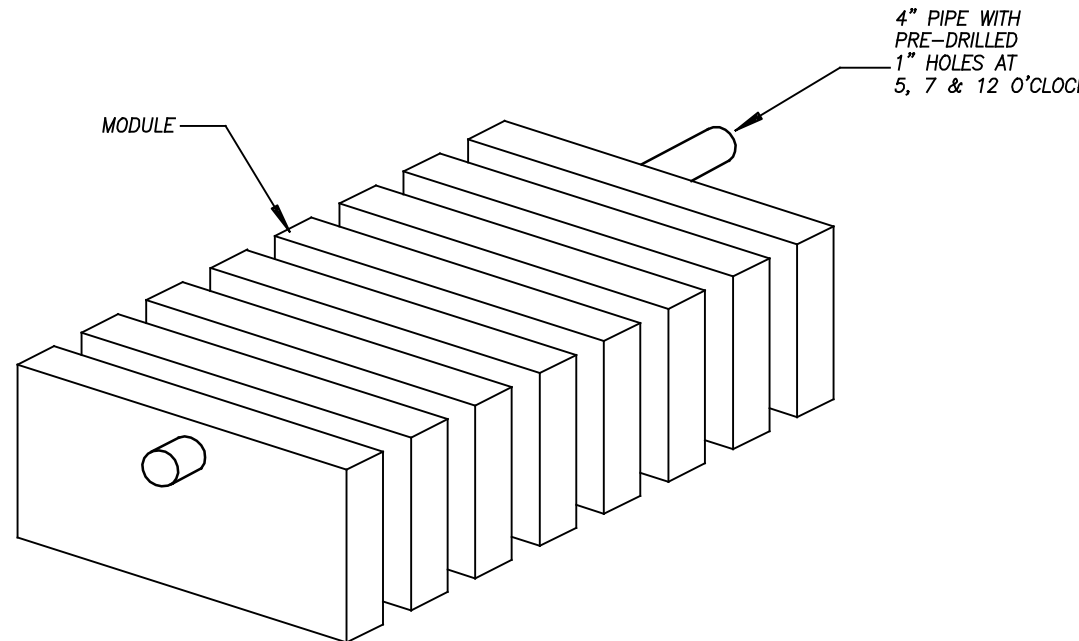
PLAN



CROSS SECTION

1000 GALLON
2 COMPARTMENT
SEPTIC TANK

NOT TO SCALE



- NOTES:
- VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE.
 - FOR SYSTEMS INSTALLED IN FILL, CONTRACTOR SHALL PROVIDE 5' OF SELECT FILL OR ASTM C-33 SAND 5' AROUND PERIMETER OF SYSTEM.

ELJEN 536-8 WASTEWATER
LEACHING SYSTEM

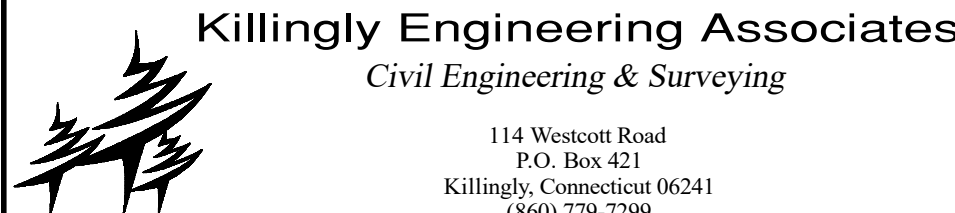
DATE	DESCRIPTION
	REVISIONS

DETAIL SHEET - LOT 5

PREPARED FOR

CUSTOM BUILT HOMES
BY GREG LEHTO, LLC

61 BEECHER ROAD
BROOKLYN, CONNECTICUT



DATE: 2/22/2024	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 2 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23138

NORMAND THIBEAULT, JR., P.E. No. 22834 DATE

430 Allen Hill Rd.

Naomi Regis

POA Moe LaPierre

Scope: To clear 25 to 30 acres to make additional future haying crop fields. Area is outlined in map as - - - -. (See map attachment)

Reason: Not to be land poor. My current intention is to turn said clearing into field for haying to help pay taxes on the land and fire wood.

Plan of attack: To have clearing done within six (6) months. We'll have 5 to 6 saws in operation along with a rubber-tired skidder to transport wood to temporary storage area (see map attachment).

Temporary Storage area: We'd like to store logs in area marked with an X (see map attachment). Once we have 2 to 3 loads ready, they will be moved to a friend's lot in Canterbury to be bucked and split for firewood for my family, co-workers, and myself.

Stumps: Stumps will be left in place and cut down to ground level so mowers won't wack them when haying begins.

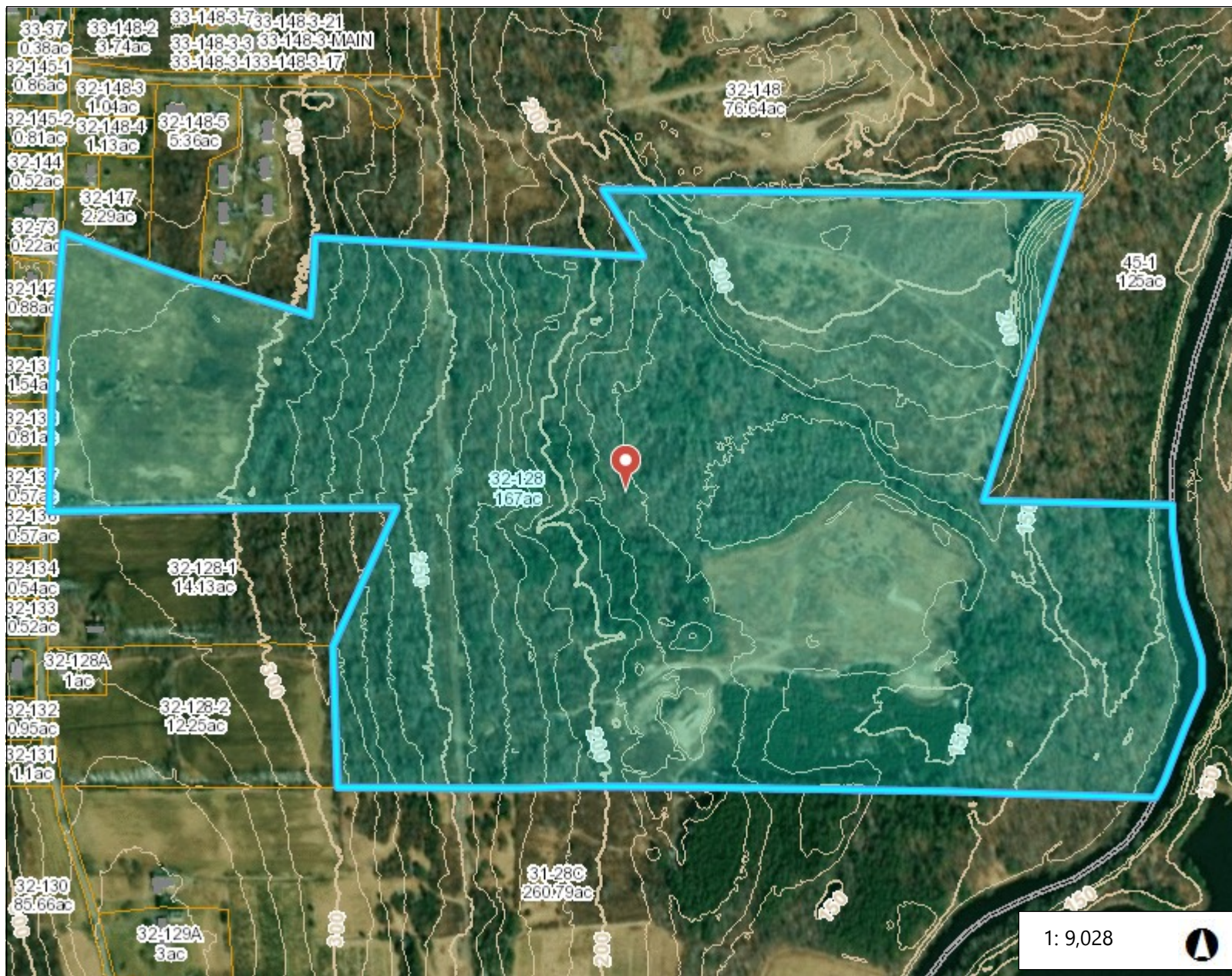
Tops: We'll have multiple piles of tops stocked piled for burning. I'll contact the fire marshal for burn permit(s) and ask the chief if service from Mortlake fire Department for standby when burning and make a donation to the department for their standby assignment. Top Piles will be stocked in pile size in accordance with the fire marshal's request. Notification will be made to QV the 911 dispatch center when permit(s) allow for burning.

Possible future bugout shelter: Some logs will be left at temporary storage area to possibly build a small bugout shelter. When/if shelter to be built I will advise any and all necessary committees for approval. If shelter doesn't get built, remaining logs will be removed from property in a timely manner. Thank you



neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels

Notes

NECCOG aerial contours

0.3 0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.

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THIS MAP IS NOT TO BE USED FOR NAVIGATION



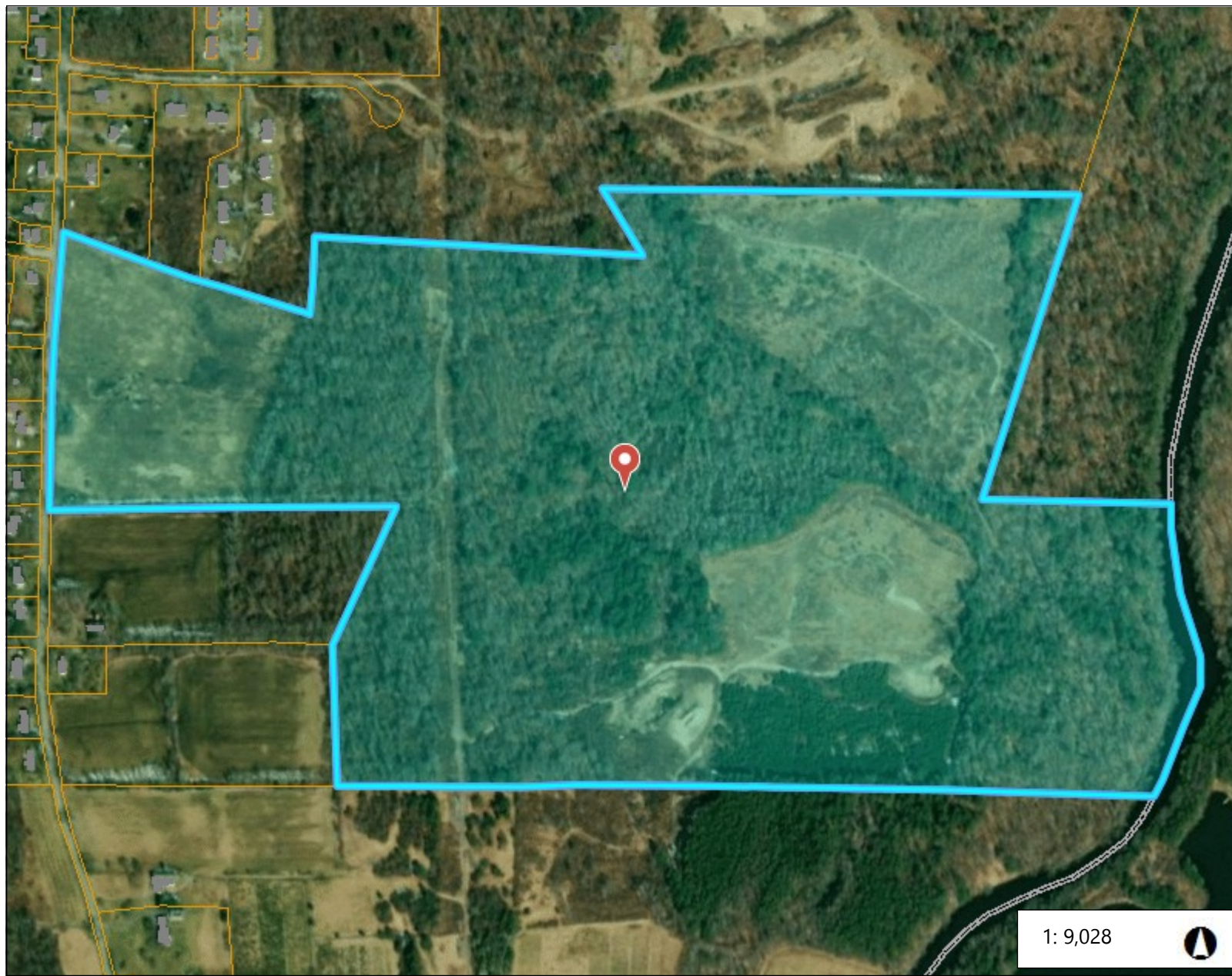
neccog

Neccog GIS Site



Legend

-  Town
-  Buildings 2012
-  Parcels



1: 9,028



0.3 0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere
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Notes

NECCOG aerial



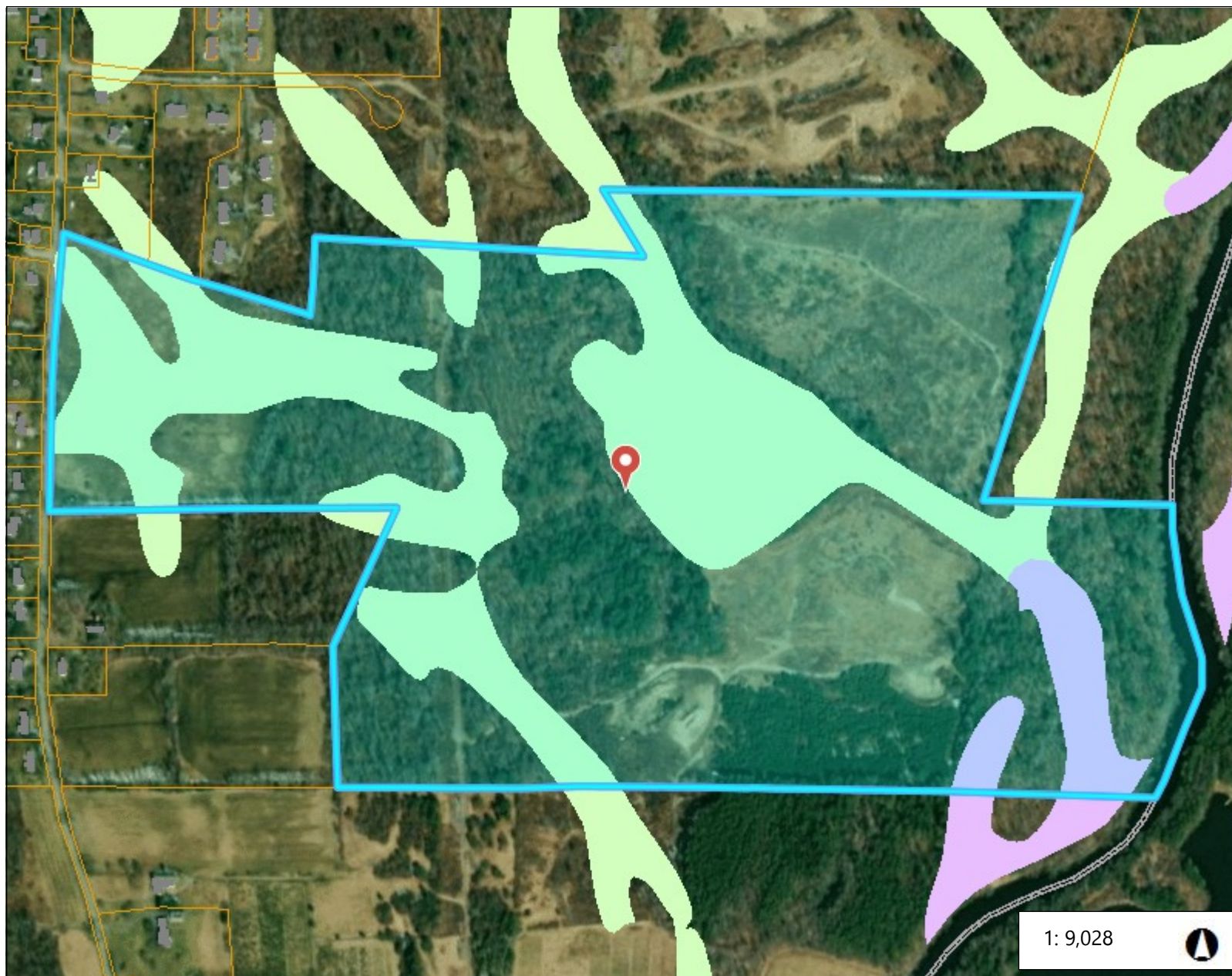
neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels
- Wetlands**
 - Alluvial and Floodplain Soils
 - Poorly Drained and Very Poorly Dr



1: 9,028



0.3 0 0.14 0.3 Miles

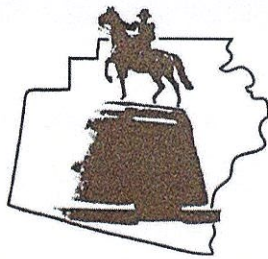
WGS_1984_Web_Mercator_Auxiliary_Sphere
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THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

Enter Map Description



Brooklyn Land Use Department

69 South Main Street
Brooklyn CT 06234
(860) 779-3411 x 31

Inland Wetlands ☒

Zoning Enforcement ☐

Blight Enforcement ☐

SITE INSPECTION NUMBER

1 2 3 4 5

17 Greenway Dr.
Riverside Park

2/28/24

Address

Date

I inspected and took photos in
response to a complaint.

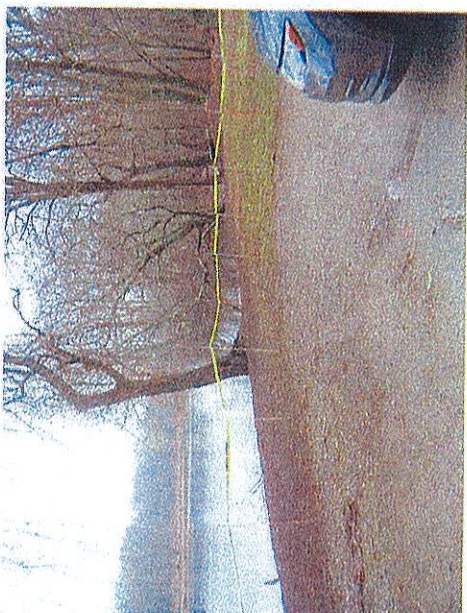
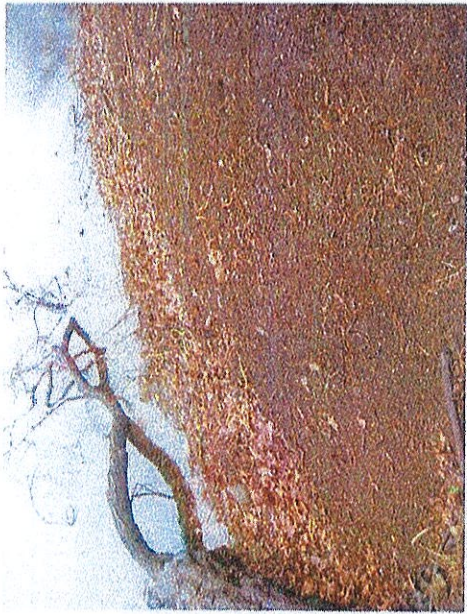
Woody vegetation has been removed
along the bank of the Guinebaug
River north of the existing boat launch.

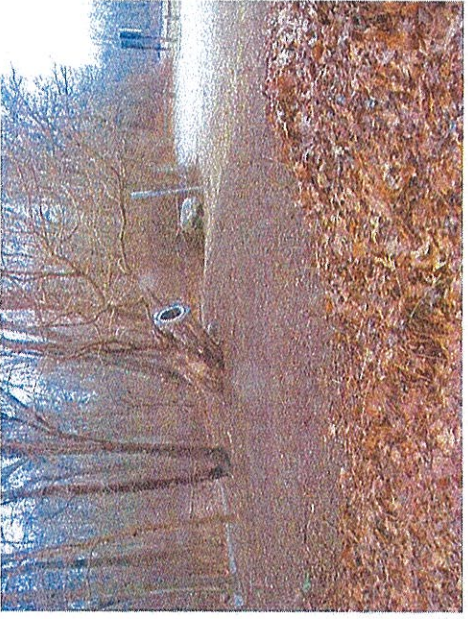
Inquire about who did this
+ report to IWWC.

Commission Representative

M. Washburn

Owner or Authorized Signature







Town of Brooklyn

Inland Wetlands Budget FY24

From Date: 2/1/2024

To Date: 2/29/2024

Fiscal Year: 2023-2024

☐ Subtotal by Collapse Mask

☐ Include pre encumbrance

☒ Print accounts with zero balance

☒ Filter Encumbrance Detail by Date Range

☐ Exclude Inactive Accounts with zero balance

Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balance	% Bud
1005.41.4163.51900	Inland Wetlands-Wages-Recordin	\$1,000.00	\$62.50	\$887.50	\$112.50	\$0.00	\$112.50	11.25%
1005.41.4163.53020	Inland Wetlands-Legal Fees	\$3,500.00	\$1,160.00	\$1,160.00	\$2,340.00	\$0.00	\$2,340.00	66.86%
1005.41.4163.53200	Inland Wetlands-Professional A	\$65.00	\$0.00	\$0.00	\$65.00	\$0.00	\$65.00	100.00%
1005.41.4163.53400	Inland Wetlands-Professional S	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4163.55400	Inland Wetlands-Advertising &	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4163.55500	Inland Wetlands-Printing & Pub	\$120.00	\$0.00	\$45.00	\$75.00	\$0.00	\$75.00	62.50%
1005.41.4163.56900	Inland Wetlands-Other Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Grand Total:		\$5,685.00	\$1,222.50	\$2,092.50	\$3,592.50	\$0.00	\$3,592.50	63.19%

End of Report