Brooklyn Inland Wetlands Commission
Regular Meeting Agenda
Tuesday, December 13, 2022
Zoom and In-Person Meeting
Clifford B. Green Memorial Center
69 South Main Street
6:00 p.m.

In-Person: **Clifford B. Green Meeting Center, Suite 24, 69 South Main Street, Brooklyn, CT**		
Online: **Click link below:** https://us06web.zoom.us/j/82435574137	**OR**	**Go to Zoom.us ,** **click Sign In** **On the top right, click Join a Meeting** **Enter meeting ID:** 824 3557 4137 **Enter meeting password:** 038430
Phone: Dial 1 646 558 8656 US Toll **Enter meeting number:** 824 3557 4137 **Enter meeting password:** 038430 **You can bypass attendee number by pressing #**		

Call to Order:

Roll Call:

Seating of Alternates:

Public Commentary:

Additions to Agenda:

Approval of Minutes:

1. Regular Meeting Minutes November 8, 2022;

Public Hearings: None.

Old Business:

SUBD 22-001 – 430 Allen Hill Road – Map 32 Lot 128 – Maurice Lapierre P.O.A. for Naomi Regis. Two-lot subdivision, lot development within upland review area.

SUBD 22-002 – Allen Hill Road – Map 31 Lot 97C – Lori Pike. Re-subdivision for single-family home.

New Business:

DR 22-005 – Fortin Drive – Map 41 Lot 129 – Donald Dubois. Timber Harvest and Request for Declaratory Ruling. Intermediate harvest to promote the growth of the better quality white pines and to stimulate natural regeneration.

Communications:

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

Public Commentary:

Adjourn:

_____

Richard Oliverson, Chairman

Brooklyn Inland Wetlands Commission

Regular Meeting Minutes

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Call to Order: 6:00 pm

Roll Call: Richard Oliverson, Adam Brindamour, James Paquin, Jason Burgess
Demian Sorrentino and Adam Tucker were both absent with notice.

Staff: Margaret Washburn and Jean Bolin

Seating of Alternates: None

Public Commentary: None

Additions to Agenda:
IWWC SUBD 22-002 – Allen Hill Road – Map 31 Lot 97C – Lori Pike. Re-subdivision for single-family home. James Paquin made a motion to move this item to new business. Adam Brindamour seconded the motion. Approved 4/0.

Approval of Minutes:
October 11, 2022, Meeting – Accepted with following correction: On page 4 of 5 under Old Business the public hearing date for 253 Wolf Den was written as November 14, 2022, and it should be November 8, 222.

Site Walk Minutes for the 253 Wolf Den Road site walk, done on October 21, 2022, were approved as written.

1. Public Hearing:

Re-opened public hearing for IWWC 22-004 - 253 Wolf Den Road - Map 17 Lot 32-3 – Pasay Development**.** Installation of driveway across wetlands to access house site in previously approved subdivision.

Paul Terwilliger of PC Survey Associates represented the applicant, Keith Pasay; both were in attendance.

Mr. Terwilliger stated that the purpose of the site walk was to determine if the proposed project meets the definition if significant impact. Mr. Terwilliger also stated that nothing has changed on the proposal.

Richard Oliverson asked Mr. Terwilliger how much material would be used and how much area would be disturbed. Mr. Terwilliger replied that 300 yards of material and 730 square feet would be disturbed. Mr. Oliverson inquired if there were any other locations that would disturb less. Mr. Terwilliger explained that there is no better option.

James Paquin stated that he did not see how this activity meets significant impact criteria. Jason Burgess agreed with Mr. Paquin.

Mr. Oliverson asked Mr. Terwilliger what the pitch of the slope from driveway is to the proposed pipe outlet. Mr. Terwilliger stated it was 2:1.

Mr. Paquin made a motion that this does not meet the criteria in Section 2 of regulations for significant impact. Mr. Paquin stated, for the record, that he believes that the proposed work does not meet the following criteria in Section 2 of the regulations:

1. Any activity involving deposition or removal of material which will or may have a substantial effect on the wetland or watercourse or on wetlands or watercourses outside the area for which the activity is proposed.

2. Any activity which substantially changes the natural channel or may inhibit the natural dynamics of a watercourse system.

3. Any activity which substantially diminishes the natural capacity of an inland wetland or watercourse to: support aquatic, plant or animal life and habitats; prevent flooding; supply water; assimilate waste; facilitate drainage; provide recreation or open space; or perform other functions.

4. Any activity which is likely to cause or has the potential to cause substantial turbidity, siltation or sedimentation in a wetland or watercourse.

5. Any activity which causes substantial diminution of flow of a natural watercourse or groundwater levels of the wetland or watercourse.
6. Any activity which is likely to cause or has the potential to cause pollution of a wetland or watercourse.
7. Any activity which damages or destroys unique wetland or watercourse areas or such areas having demonstrable scientific or educational value.

Adam Brindamour seconded the motion. Approved 4/0.

Mr. Brindamour stated his reasons for his vote were the same seven criteria under Section 2 that Mr. Paquin stated in the motion. Mr. Brindamour stated that the proposed work does not meet the definition of significant impact.

Jason Burgess indicated his reason for approval was that this proposal does not meet the criteria for significant impact.

Mr. Oliverson's reason for approval was that he concurs with Mr. Paquin's original motion.

Chuck Browning of 255 Wolf Den attended the Zoom meeting via telephone.

Keith Pasay stated he wanted to understand what Mr. Browning's opposition was to the project. Mr. Pasay said he was only in attendance because the wetland crossing was put in the wrong place by Portfolio Properties, and asked Mr. Browning to please respond. Mr. Browning stated the has no comment on the installation of the wetland crossing by Portfolio Properties. Mr. Browning stated that Mr. Pasay has filed a lawsuit and he knows the reason for his opposition.

Peter Joyce of 299 Wolf Den was in attendance, and he also wanted to know the reason for opposition.

Mr. Oliverson stated that the old permits have expired, and the commission had to decide on what is presented before them in this application.

Mr. Paquin made a motion to close the public hearing. Mr. Brindamour seconded the motion. Approved 4/0. The public hearing is now closed.

Old Business:

Mr. Paquin made a motion to approve **IWWC 22-004 - 253 Wolf Den Road - Map 17 Lot 32-3 Pasay Development.** Installation of driveway across wetlands to access house site in previously approved subdivision, with standard conditions plus the following special conditions:

Based on the maps and plans presented, and the testimony received at the public hearing, the commission finds that: The environmental impact of the proposed activity on the wetlands/watercourse is minimal and will not cause any long-lasting impacts.

There is no feasible and prudent alternative to the proposed activity which would cause less or no environmental impact to the wetlands or watercourse. The only alternative driveway location requires the consent of another property owner, which consent has been withheld.

The proposed activity will have minimal effect on the water table and drainage patterns.

The danger of erosion and sedimentation will be minimized by appropriately placed erosion and sedimentation controls during construction.

Based on the plans as presented, there will be no irreversible and irretrievable loss of wetland resources caused by the proposed activity. Mr. Brindamour seconded the motion. Approved 4/0.

Mr. Brindamour added that as a special condition, an as-built of the driveway and wetland crossing also be required to be submitted for approval by town staff. Mr. Paquin and Mr. Brindamour agreed.

Mr. Brindamour's reasons for approval were the same as Mr. Paquin's; impact was minimal.

Mr. Burgess's stated for the record he agrees with the same list of reasons for approval stated by Mr. Paquin.

Mr. Oliverson's reason for approval concurs with Mr. Paquin's motion.

411 Church Street – Andrew Kausch. As-built plan for existing driveway and letter from Bob DeLuca of CLA Engineering.

Ms. Washburn stated that the issue will be resolved through enforcement. No vote needed because Mr. Kausch is willing to resolve the issues and get back in compliance.

New Business:

SUBD 22-001 – 420 Allen Hill Road – Map 32 Lot 128 – Maurice Lapierre P.O.A. for Naomi Regis. 2 lot subdivision, lot development within upland review area.

Paul Terwilliger from PC Survey Associates was in attendance and represented the applicant. Mr. Terwilliger explained that the applicant wants to cut two lots out of the existing fields.

Mr. Terwilliger stated there would be one 14-acre lot with the barn. The majority of the work proposed would be done outside of the upland review area. The second lot would be 12 acres, for a new single-family dwelling, driveway, septic system, well and a small barn for goats. The septic system would be between the house and the road pending NDDH approval.

A strip of frontage on each lot is being deeded over to the Town right-of-way.

Ms. Washburn reminded the commission that this application can only be received tonight not voted on. Ms. Washburn suggested a site walk could be done if deemed necessary. Mr. Paquin stated to the Chairman that he did not see a need for the whole commission to do the site walk together. Instead, commission members could go individually if preferred. Mr. Oliverson stated that he felt no site walk was needed.

No vote was needed.

IWWC SUBD 22-002 – Allen Hill Road – Map 31 Lot 97C – Lori Pike. Re-subdivision for single-family home, to New Business.

Paul Archer of Archer Surveying was present and represented the applicant.

Ms. Washburn asked Mr. Archer to clarify if this was a subdivision or a re-subdivision as stated on the application. Mr. Terwilliger stated it was a subdivision. Ms. Washburn will follow up to get clarification on the wording on the application.

The application was received tonight; it will be moved to new business at next regularly scheduled meeting. No vote was needed.

Communications:

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

Public Commentary: None

The next scheduled meeting for December 13, 2022, was discussed. Peter Alter wants the commission to schedule a special meeting at 5:30 pm on that day so an executive session can take place. The commission agreed to that time. Ms. Washburn indicated that she would forward prior information regarding the Rawson gravel pit on Maynard Road to the three newer members of the commission that were not on the commission when the hearings took place.

Adjourn: Mr. Paquin made a motion to adjourn at 7:10 pm. Mr. Burgess seconded the motion.

_____

Richard Oliverson, Chairman

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

RECEIVED
OCT 31 2022
BY

Date _____ Application # 1WWC
SUBD 22-001

APPLICATION -- INLAND WETLANDS & WATERCOURSES

MAURICE LAPIERRE, P.O.A. FOR

APPLICANT NAOMI REGIS MAILING ADDRESS 240 SOUTH STREET, BROOKLYN, CT 06234
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE 860 208 7397 (MOE LAPIERRE) EMAIL _____

PROPERTY OWNER IF DIFFERENT SAME PHONE _____
MAILING ADDRESS _____ EMAIL _____

ENGINEER/SURVEYOR (IF ANY) PC SURVEY ASSOCIATES, LLC / KILLINGLY ENGINEERING ASSOCIATES, LLC
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS 430 ALLEN HILL ROAD
MAP # 32 LOT # 128 ZONE RA TOTAL ACRES 26.38 ACRES OF WETLANDS ON PROPERTY 14 ACRES
SUBDIVIDED
PURPOSE AND DESCRIPTION OF THE ACTIVITY 2 LOT SUBDIVISION, LOT DEVELOPMENT WITHIN UPLAND REVIEW AREA

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

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): N/A

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY 0 SQFT 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: _____ DATE _____

OWNER: Naomi Regis DATE 10-8-22

REQUIREMENTS

_____ Application Fee $_____ State Fee ($60.00) _____

_____ 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

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 - print clearly - and mail this form in accordance with the instructions on pages 2 and 3 to: Wetlands Management Section, Inland Water Resources Division, CT DEEP, 79 Elm Street – 3rd Floor, Hartford, CT 06106

PART I: To Be Completed By the Municipal Inland Wetlands Agency Only

1. DATE ACTION WAS TAKEN (enter one year and month): Year _____ Month _____
2. ACTION TAKEN (enter one code letter): _____
3. WAS A PUBLIC HEARING HELD (check one)? Yes _____ No _____
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:

   (type name) _____ (signature) _____

PART II: To Be Completed By the Municipal Inland Wetlands Agency or the Applicant

5. TOWN IN WHICH THE ACTION IS OCCURRING (type name): BROOKLYN

   Does this project cross municipal boundaries (check one)? Yes _____ No X

   If Yes, list the other town(s) in which the action is occurring (type name(s)): _____, _____
6. LOCATION (see directions for website information): USGS Quad Map Name: DANIELSON or Quad Number: 43

   Subregional Drainage Basin Number: 3700
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): NAOMI REGIS
8. NAME & ADDRESS/LOCATION OF PROJECT SITE (type information): 430 ALLEN HILL ROAD

   Briefly describe the action/project/activity (check and type information): Temporary ____ Permanent X

   Description: 2 LOT RESIDENTIAL SUBDIVISION
9. ACTIVITY *PURPOSE* CODE (enter one code letter): B
10. ACTIVITY *TYPE* CODE(S) (enter up to four code numbers): 1, 2, 12, 14
11. WETLAND / WATERCOURSE AREA ALTERED (type in acres or linear feet as indicated):

    Wetlands: 0 acres Open Water Body: 0 acres Stream: 0 linear feet
12. UPLAND AREA ALTERED (type in acres as indicated): 2.3 acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type in acres as indicated): 0 acres

PART III: To Be Completed By the DEEP

DATE RECEIVED: DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

JOSEPH R. THEROUX

~ CERTIFIED FORESTER/ SOIL SCIENTIST ~
PHONE 860-428-7992~ FAX 860-376-6842
P.O. BOX 32, VOLUNTOWN, CT. 06384
FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENT WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING
WETLAND FUNCTION AND VALUE ASSESSMENTS

12/20/21

P.C. SURVEY ASSOC. LLC.
63 SNAKE MEADOW HILL RD.
KILLINGLY, CT. 06239

ATTN: MR. PAUL TERWILLIGER

RE: REGIS PROPERTY WETLAND DELINEATION, ALLEN HILL RD. BROOKLYN, CT.

DEAR MR. TERWILLIGER,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS IN THE WESTERN HALF OF THE ABOVE REFERENCED PROPERTY.

THESE WETLANDS HAVE BEEN DELINEATED IN ACCORDANCE WITH THE STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY AND THE DEFINITIONS OF WETLANDS AS FOUND IN THE CONNECTICUT STATUTES, CHAPTER 440, SECTION 22A-38.

FLUORESCENT PINK FLAGS WITH A CORRESPONDING LOCATION NUMBER DELINEATE THE BOUNDARY BETWEEN THE UPLAND SOILS AND THE INLAND WETLANDS.

FLAG NUMBERS WF-1 THRU WF-14 AND WF-1A THROUGH WF-96 A DELINEATE THE BOUNDARY OF THE PALUSTRINE EMERGENT WETLANDS LOCATED IN THE NORTHERN FIELD AND A PORTION OF THE SOUTHERN FIELDS.

THE MAJORITY OF THE WETLAND SOILS FOUND THROUGHOUT THIS AREA HAVE FORMED AS A RESULT OF PROLONGED WETNESS FROM THE SEASONAL WATER TABLE WHICH IS AT OR NEAR THE SURFACE FOR THE MAJORITY OF THE YEAR.

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

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

THANK YOU,

Joseph R. Theroux

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

450 Mill [illegible] Road – Hydraulic Analysis

Method A – Perched GW Table Testing

Permeability Calculation – Assume 50% Surface Runoff

$$K = \frac{Q}{iA} \qquad \frac{0.005 \times W}{S \times d}$$

K = Permeability (ft/day)
W = Upslope Drainage Area = 185 S.F
S = Average Ground Slope = 3.78%
d = Depth of Perched Water Table (feet)*

* Worst Case – Water Table 4½" Below Surface.

– Restrictive = 16" (Worst Case)

∴ Depth of Perched Water Table = 11½" = 0.958'

$$K = \frac{(0.005)(185)}{(0.0378)(0.958)} = \underline{25.13 \text{ FT/DAY}}$$

Method B – Observation of Differences in Groundwater Level

$$K = \frac{0.005 \times D}{i \times d}$$

D = Dist Between TP'S = 50'
i = Slope Between TP'S = 3%
d = Difference in Depth of Saturated Flow = 2" = 0.17'

$$K = \frac{(0.005)(50')}{(0.03)(0.17)} = 49 \text{ FT/DAY}$$

STATE OF CONNECTICUT
NORMAND THIBEAULT, JR.
No. 22834
LICENSED
PROFESSIONAL ENGINEER

[signature]
10/5/20[illegible]

/ METHOD B - DIFFERENCE IN GROUNDWATER LEVEL UTILIZING SURFACE ELEVATIONS & TP DEPTHS

TP 4 (STRUCTURE 2)
GROUND ELEVATION = 328.26
REFUSAL @ 16"
GW ELEVATION = 326.93

TP 3 (STRUCTURE 1)
GROUND ELEVATION = 326.76
REFUSAL @ 18"
GW ELEVATION = 325.15

SLOPE = 326.93 - 325.15 / 50 = 3.56%

$K = \frac{(0.005)(50')}{(0.036)(0.17)} = 40$ FT/DAY

USE: CALCULATE MASS UTILIZING STANDARD RATE OF 25'/DAY

$Q = KiA = Ki(d \times L)$

$L = Q / Kid$

Q = VOLUME OF EFFLUENT IN CUBIC FEET PER DAY

K = PERMEABILITY = 25'/DAY

i = SLOPE = 3.76%

d = AVG DEPTH ABOVE IMPERMEABLE LAYER IN FEET (1.3)

110 GPD / BEDROOM x 9 BEDROOMS = $\frac{990 \text{ GPD}}{7.5}$

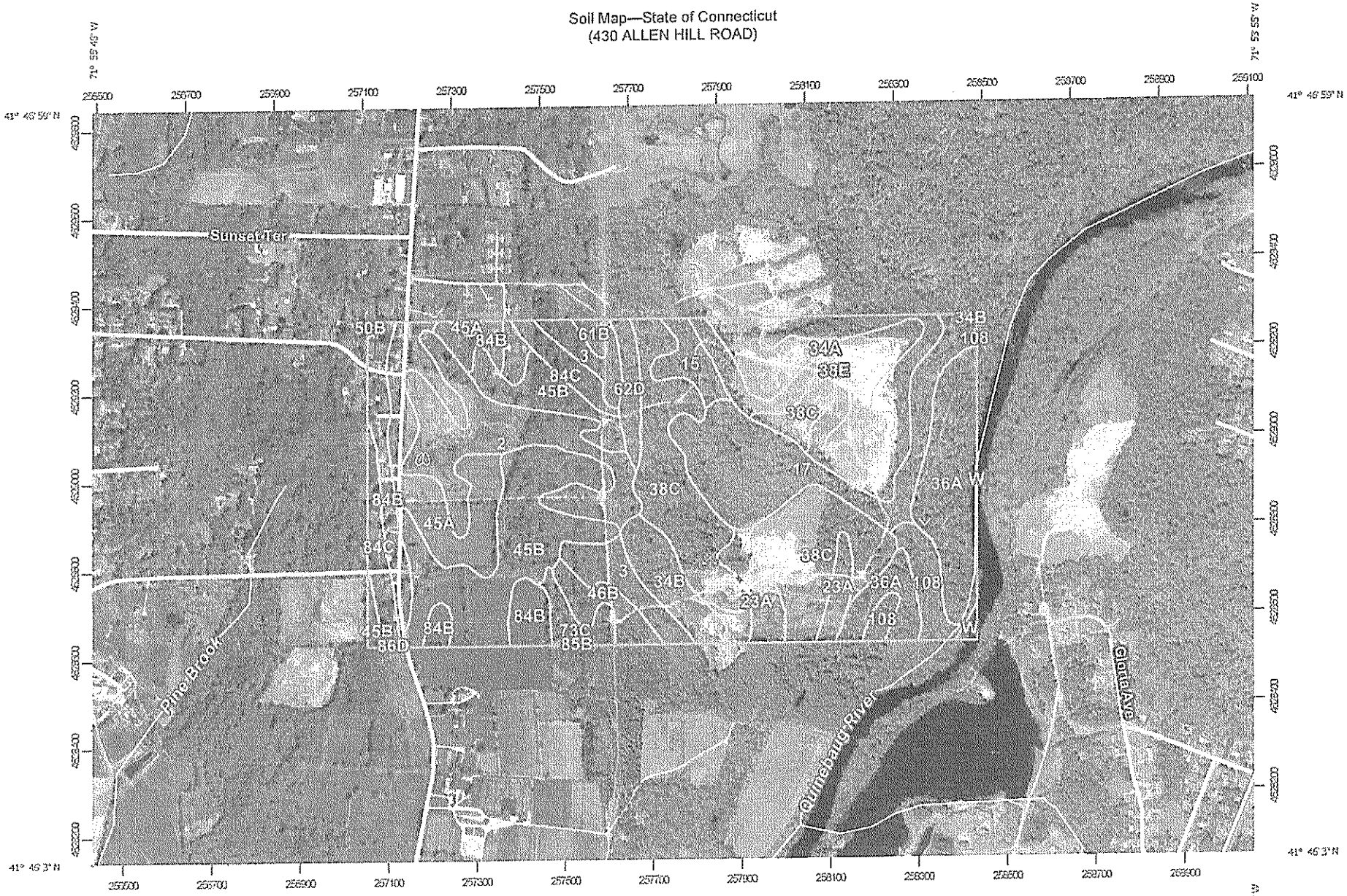
= 80 CF/DAY

$L = \frac{80 \text{ CF/DAY}}{(25)(0.0516)(1.3)} = 65.2'$ OK

STATE OF CONNECTICUT ★ NORMAND THIBEAULT, JR. ★ No. 22834 LICENSED PROFESSIONAL ENGINEER

10/5/2022

Soil Map—State of Connecticut
(430 ALLEN HILL ROAD)



Map Scale: 1:12,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

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

USDA Natural Resources Conservation Service

Web Soil Survey
National Cooperative Soil Survey

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.

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

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

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

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

Soil Survey Area: State of Connecticut
Survey Area Data: Version 21, Sep 7, 2021

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

Date(s) aerial images were photographed: Mar 30, 2011—May 21, 2020

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
2	Ridgebury fine sandy loam, 0 to 3 percent slopes	20.6	8.2%
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	9.2	3.7%
15	Scarboro muck, 0 to 3 percent slopes	4.0	1.6%
17	Timakwa and Natchaug soils, 0 to 2 percent slopes	23.2	9.2%
23A	Sudbury sandy loam, 0 to 5 percent slopes	7.0	2.8%
34A	Merrimac fine sandy loam, 0 to 3 percent slopes	14.5	5.8%
34B	Merrimac fine sandy loam, 3 to 8 percent slopes	7.0	2.8%
36A	Windsor loamy sand, 0 to 3 percent slopes	20.1	8.0%
38C	Hinckley loamy sand, 3 to 15 percent slopes	37.3	14.9%
38E	Hinckley loamy sand, 15 to 45 percent slopes	18.2	7.3%
45A	Woodbridge fine sandy loam, 0 to 3 percent slopes	16.5	6.6%
45B	Woodbridge fine sandy loam, 3 to 8 percent slopes	31.2	12.4%
46B	Woodbridge fine sandy loam, 0 to 8 percent slopes, very stony	4.4	1.7%
50B	Sutton fine sandy loam, 3 to 8 percent slopes	0.1	0.0%
61B	Canton and Charlton fine sandy loams, 0 to 8 percent slopes, very stony	1.1	0.4%
62D	Canton and Charlton fine sandy loams, 15 to 35 percent slopes, extremely stony	3.4	1.4%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	3.3	1.3%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	15.5	6.2%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
84C	Paxton and Montauk fine sandy loams, 8 to 15 percent slopes	7.7	3.1%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	0.0	0.0%
86D	Paxton and Montauk fine sandy loams, 15 to 35 percent slopes, extremely stony	0.1	0.0%
108	Saco silt loam	5.9	2.3%
W	Water	0.5	0.2%
Totals for Area of Interest		250.6	100.0%

430 Allen Hill Road - Hydraulic Analysis

Method A - Perched GW During Spring

Permeability Calculation - Assume 50% Surface Runoff

$$K = \frac{Q}{iA} = \frac{0.005 \times W}{S \times d}$$

K = Permeability (Ft/Day)
W = Upslope Drainage Area = 185 S.F
S = Average Ground Slope = 3.78%
d = Depth of Perched Water Table (Feet) *

* Worse Case - Water Table 4½" Below Surface
- Restrictive = 16" (Worse Case)

∴ Depth of Perched Water Table = 11½" = 0.958'

$$K = \frac{(0.005)(185)}{(0.0378)(0.958)} = \underline{25.13 \text{ FT/DAY}}$$

Method B - Observation of Differences in Groundwater Level

$$K = \frac{0.005 \times D}{i \times d}$$

D = Dist Between TP's = 50'
i = Slope Between TP's = 3%
d = Difference in Depth of Saturated Flow = 2" = 0.17'

$$K = \frac{(0.005)(50')}{(0.03)(0.17)} = \underline{49 \text{ FT/DAY}}$$

STATE OF CONNECTICUT
NORMAND THIBEAULT, JR.
No. 22834
LICENSED PROFESSIONAL ENGINEER

10/5/2022

PrintFreeGraphPaper.com

METHOD B - DIFFERENCES IN GROUNDWATER LEVEL UTILIZING SURFACE ELEVATIONS & TP DEPTHS

TP 4-4 (STANDPIPE 2)
GROUND ELEVATION = 328.26
MOTTLES @ 16"
GW ELEVATION = 326.93

TP-3 (STANDPIPE 1)
GROUND ELEVATION = 326.76
MOTTLES @ 18"
GW ELEVATION = 325.25

SLOPE = 326.93 - 325.25 / 50 = 3.36%

$K = \frac{(0.005)(50')}{(0.036)(0.17)} = 40$ FT / DAY

MASS: CALCULATE MASS UTILIZING SLOWEST RATE OF 25' / DAY

$Q = K_i A = K_i (d \times L)$

$L = Q / K_i d$

Q = VOLUME OF EFFLUENT IN CUBIC FEET PER DAY

K = PERMEABILITY = 25' / DAY

i = SLOPE = 3.78%

d = AVG DEPTH ABOVE IMPERVIOUS LAYERS IN FEET (1.3)

150 GPD / BEDROOM x 4 BEDROOMS = $\frac{600 \text{ GPD}}{7.5}$

= 80 CF / DAY

$L = \frac{80 \text{ CF/DAY}}{(25)(0.0378)(1.3)} = 65.2'$

OK

STATE OF CONNECTICUT ★ NORMAND THIBEAULT, JR. ★ No. 22634 ★ LICENSED PROFESSIONAL ENGINEER

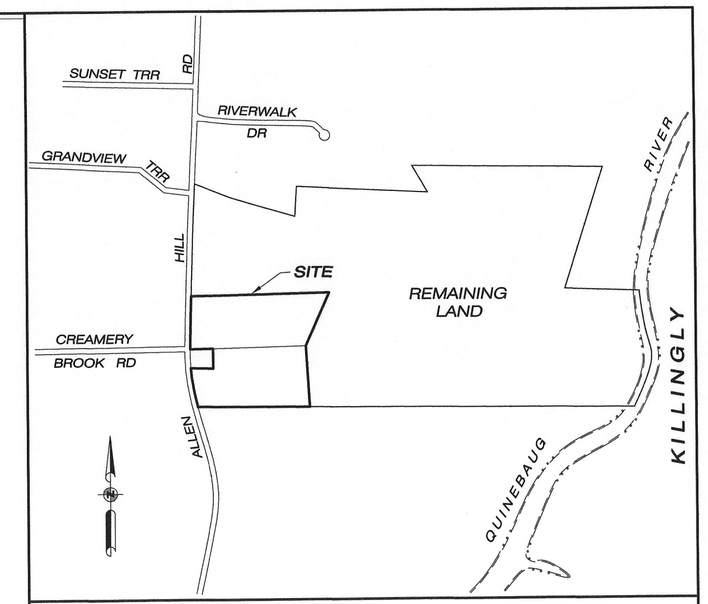
10/5/2022

PrintFreeGraphPaper.com

MAP 32 , LOT 128
RA ZONING DISTRICT
TOTAL SUBDIVIDED AREA = 26.4± ACRES

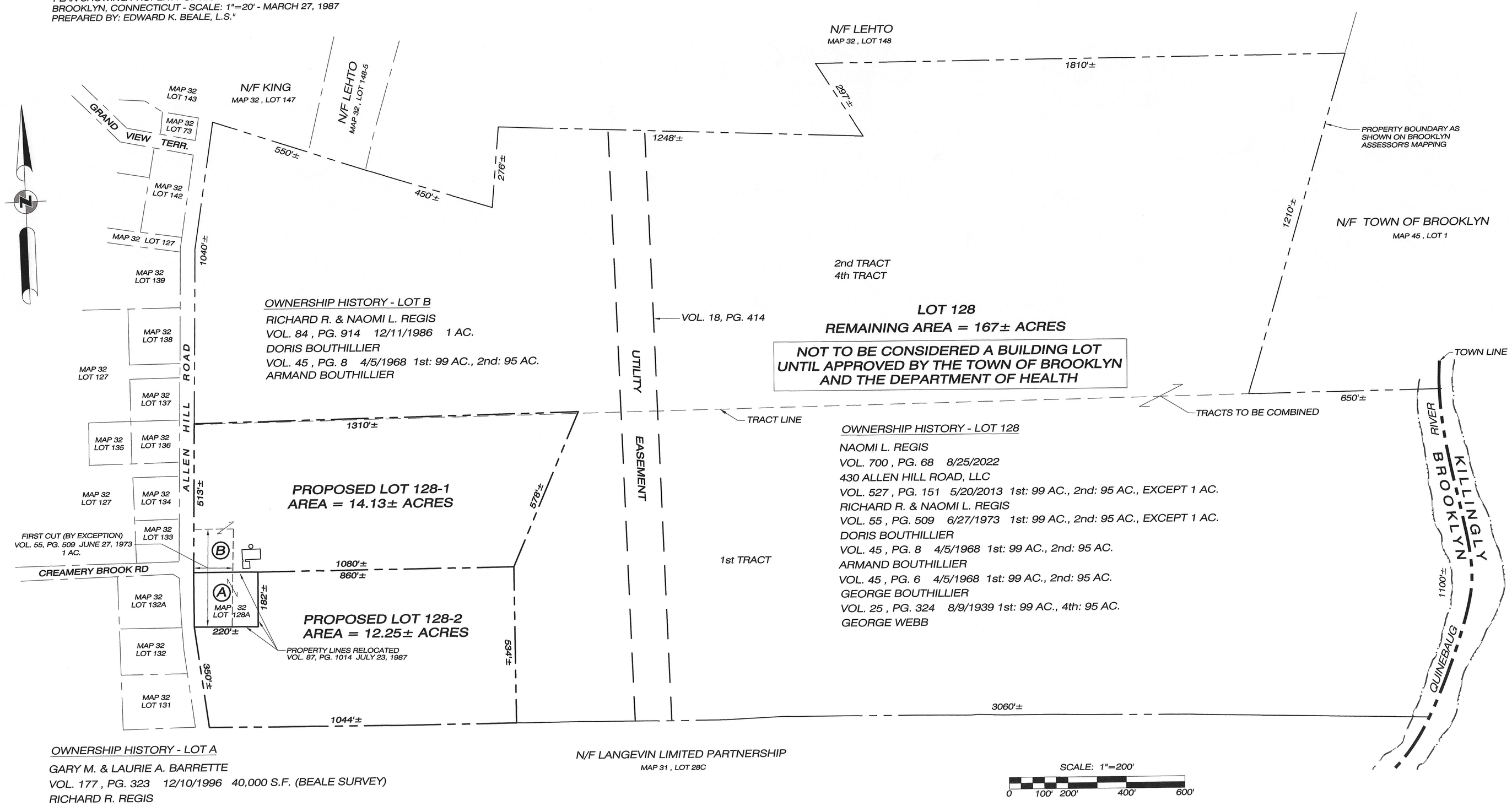
SUBDIVISION OF LAND OF NAOMI L. REGIS ALLEN HILL ROAD BROOKLYN , CONNECTICUT OCTOBER 2022

SHEET INDEX	
SHEET 1	COVER SHEET
SHEET 2	SUBDIVISION MAP
SHEET 3	LOT DEVELOPMENT PLAN
SHEET 4	EROSION CONTROL & CONSTRUCTION DETAILS



LOCATION MAP 1" = 1000'

LOT 'A' MAP REFERENCE:
"PLAN SHOWING PROPERTY OF RICHARD R. REGIS - ALLEN HILL ROAD BROOKLYN, CONNECTICUT - SCALE: 1"=20' - MARCH 27, 1987 PREPARED BY: EDWARD K. BEALE, L.S."



OWNERSHIP HISTORY - LOT B
RICHARD R. & NAOMI L. REGIS
VOL. 84 , PG. 914 12/11/1986 1 AC.
DORIS BOUTHILLIER
VOL. 45 , PG. 8 4/5/1968 1st: 99 AC., 2nd: 95 AC.
ARMAND BOUTHILLIER

OWNERSHIP HISTORY - LOT 128
NAOMI L. REGIS
VOL. 700 , PG. 68 8/25/2022
430 ALLEN HILL ROAD, LLC
VOL. 527 , PG. 151 5/20/2013 1st: 99 AC., 2nd: 95 AC., EXCEPT 1 AC.
RICHARD R. & NAOMI L. REGIS
VOL. 55 , PG. 509 6/27/1973 1st: 99 AC., 2nd: 95 AC., EXCEPT 1 AC.
DORIS BOUTHILLIER
VOL. 45 , PG. 8 4/5/1968 1st: 99 AC., 2nd: 95 AC.
ARMAND BOUTHILLIER
VOL. 45 , PG. 6 4/5/1968 1st: 99 AC., 2nd: 95 AC.
GEORGE BOUTHILLIER
VOL. 25 , PG. 324 8/9/1939 1st: 99 AC., 4th: 95 AC.
GEORGE WEBB

OWNERSHIP HISTORY - LOT A
GARY M. & LAURIE A. BARRETTE
VOL. 177 , PG. 323 12/10/1996 40,000 S.F. (BEALE SURVEY)
RICHARD R. REGIS
VOL. 174 , PG. 57 7/24/1996 40,000 S.F. (BEALE SURVEY)
SECRETARY OF HOUSING & URBAN DEVELOPMENT
VOL. 170 , PG. 214 4/23/1996 40,000 S.F. (BEALE SURVEY)
CONSTITUTION MORTGAGE BANKERS, INC.
VOL. 170 , PG. 13 4/2/1996 40,000 S.F. (BEALE SURVEY)
EUGENE A. & PHYLLIS M. BERNARDI
VOL. 119, PG. 286 11/7/1991 40,000 S.F. (BEALE SURVEY)
WILLIAM JR. & TERI J. BRENNAN
VOL. 93, PG. 542 11/14/1988 40,000 S.F. (BEALE SURVEY)
THOMAS FENN JR. & SYLVIA BRONWYN RIDER
VOL. 87, PG. 1014 7/23/1987 40,000 S.F. (BEALE SURVEY)
RICHARD R. & NAOMI L. REGIS
VOL. 84 , PG. 914 12/11/1986 1 AC.
DORIS BOUTHILLIER
VOL. 45 , PG. 8 4/5/1968 1st: 99 AC., 2nd: 95 AC.
ARMAND BOUTHILLIER

THE SUBDIVISION REGULATIONS OF THE TOWN OF BROOKLYN ARE A PART OF THIS PLAN. APPROVAL OF THIS PLAN IS CONTIGENT ON COMPLETION OF THE REQUIREMENTS OF SAID REGULATIONS, EXCEPTING ANY VARIANCE OR MODIFICATIONS MADE BY THE COMMISSION. ANY SUCH VARIANCE OR MODIFICATIONS ARE ON FILE IN THE OFFICE OF THE COMMISSION.

APPROVED BY THE BROOKLYN PLANNING & ZONING COMMISSION

CHAIRMAN _____ DATE _____

PER SECTION 8-26 OF THE CONNECTICUT GENERAL STATUTES, AMENDED, APPROVAL AUTOMATICALLY EXPIRES _____ IF ALL PHYSICAL IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE

APPROVED BY THE BROOKLYN INLAND WETLANDS & WATERCOURSES COMMISSION

CHAIRMAN _____ DATE _____

OWNER/APPLICANT: NAOMI L. REGIS
240 SOUTH STREET
BROOKLYN, CT 06234

SURVEYOR: PC SURVEY ASSOCIATES, LLC
63 SNAKE MEADOW ROAD
KILLINGLY, CT 06239

ENGINEER: NORMAND THIBEAULT, P.E.
KILLINGLY ENGINEERING ASSOCIATES
DANIELSON, CT 06239

NOTE:
1. THIS MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT", AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A COMPILATION MAP CONFORMING TO HORIZONTAL ACCURACY CLASS "D".
THIS MAP WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.

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

PAUL A. TERWILLIGER, L.S. NO. 70158 10/19/2022 DATE

SURVEYING • MAPPING • PLOT PLANS
LAND • RECORD • RESEARCH • TOPOGRAPHY • SUBDIVISION
PC SURVEY ASSOCIATES LLC
email: pcsurvey@snet.net
63 SNAKE MEADOW RD
KILLINGLY, CT 06239
860 774 6230

REMAINING LAND
AREA = 167± ACRES

EXISTING GRAVEL DRIVE

S 88° 33' 19" W
8.53'

I.R. SET

N 88° 33' 19" E
689.61'

I.R. SET

N 89° 07' 17" E
620.15'

I.R. SET

N/F
MARTIN D. IMRE
TINA M. IMRE
MAP 32 , LOT 135

N/F
A. KAUSCH & SONS, LLC
MAP 32 , LOT 127

N/F
JEFFREY C. HAKALA
ASHLEY P. FULTON
MAP 32 , LOT 134

N/F
GEORGE C. GEER
JANET M. GEER
MAP 32 , LOT 133

ALLEN HILL ROAD

EDGE OF WETLAND (TYPICAL)

PROPOSED STREETLINE

WETLAND

FIELD

WETLAND

PARCEL "A"
AREA = 0.09± ACRES
3,756± SQ. FT.

LOT 128-1
AREA = 14.13± ACRES
615,365± SQ. FT.

S 77° 58'
S 24° 17' 31" W
BROOK

N 00° 53' 47" E
512.60'
N 00° 37' 41" E
512.58'
25'

FNDTN.

EDGE OF FIELD

I.P. FND.

WELL

EXISTING

SILO

EXISTING BARN

EXIST. ADDTN.

APPROX. U/G UTILITIES

DRIVEWAY

RAIL FENCE

15.2'

CREAMERY BROOK RD.

I.R. FND.

N 89° 03' 52" E
6.13'

S 89° 03' 52" W
219.78'

SEE DETAIL "C"

S 88° 51' 03" W
259.04'

I.R. SET

S 87° 53' 52" W
380.62'

I.R. SET

N 87° 28' 13" W
221.00'

I.R. SET

LOT 128
REMAINING LAND
AREA = 167± ACRES

NOT TO BE CONSIDERED A BUILDING LOT
WITHOUT APPROVAL OF THE TOWN OF BROOKLYN
AND THE DEPARTMENT OF HEALTH

EDGE OF FIELD

N/F
ANDREAS G.
PARDEN
MAP 32 , LOT 132A

N/F
GARY M. & LAURIE BARRETTE
VOL. 177 , PG. 323
MAP 32 , LOT 128A

N 00° 56' 08" W
182.00'

CL&P 74

N 89° 03' 52" E
6.07'

N 89° 03' 52" E
219.78'

SEE DETAIL "A"

SEE DETAIL "B"

EDGE OF FIELD

PROPOSED STREETLINE

N 02° 28' 37" W
534.00'

N/F
NEIL DURAND
MAP 32 , LOT 132

N 09° 16' 02" W
348.78'
N 09° 16' 02" W
348.89'
28'

CL&P 73

FIELD

LOT 128-2
AREA = 12.25± ACRES
533,680± SQ. FT.

FIELD

WETLAND

PARCEL "B"
AREA = 0.05± ACRES
2,093± SQ. FT.

N/F
WISEDTH SAR
LAKHANNA E. PICH
MAP 32 , LOT 131

CL&P 72

CL&P 668

I.R. FND.

6.08'
N 89° 55' 10" E

274.76'
N 89° 55' 10" E

D.H. FND.

373.69'
N 89° 49' 55" E

D.H. FND.

395.39'
N 89° 23' 15" E

D.H. FND.

3060'± TO QUINEBAUG RIVER

N/F
LANGEVIN LIMITED PARTNERSHIP
VOL. 483 , PG. 53
MAP 31 , LOT 28C

NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES -"STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A SUBDIVISION MAP BASED ON A DEPENDENT RESURVEY & ORIGINAL SURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS "A2".

2. REFERENCE IS MADE TO THE FOLLOWING MAPS:
   A. "PLAN SHOWING PROPERTY OF RICHARD R. RAGIS - ALLEN HILL ROAD, BROOKLYN, CONNECTICUT - SCALE: 1"=20' - MARCH 27, 1987 - PREPARED BY: EDWARD K. BEALE, L.S."
   B. "MONUMENTED PROPERTY SURVEY PLAN PREPARED FOR STATE OF CONNECTICUT DEPARTMENT OF AGRICULTURE FARMLAND PRESERVATION PROGRAM - PROPERTY OF LANGEVIN LIMITED PARTNERSHIP - ALLEN HILL ROAD & CREAMERY BROOK ROAD , BROOKLYN, CONNECTICUT - 346.45 TOTAL ACRES OWNED - 330.50 TOTAL RESTRICTED FARMLAND ACRES - DATE: 10/28/2010 - SCALE: 1"=100' - SHEETS 1 & 2 OF 5 - BY: PROVOST & ROVERO, INC."

3. SUBJECT PARCEL IS SHOWN AS MAP 32, LOT 128 OF THE BROOKLYN ASSESSOR'S RECORDS.

4. REFERENCE DEED: VOL. 700, PG. 68 OF THE BROOKLYN LAND RECORDS.

5. PARCELS "A" & "B" ARE TO BE GRANTED TO THE TOWN OF BROOKLYN FOR ROADWAY PURPOSES.

6. INLAND WETLANDS DEPICTED AS FIELD DELINEATED BY JOSEPH THEROUX, CPSS ON DECEMBER 20, 2021.

7. LOCATION OF OFF SITE IMPROVEMENTS ARE APPROXIMATE.

8. SUBDIVIDED LOTS ARE NOT LOCATED WITHIN FEMA 100-YEAR FLOOD ZONE.

9. OPEN SPACE REQUIREMENTS SHALL BE MET BY A FEE IN LIEU OF LAND DEDICATION. LOT 128-1 IS TO BE CONVEYED TO A FAMILY MEMBER AND IS THEREBY EXEMPT FROM THE OPEN SPACE REQUIREMENT. AN APPRAISAL OF THE RAW LAND VALUE OF LOT 128-2 SHALL BE USED TO DETERMINE THE AMOUNT OF OPEN SPACE FEE TO BE PAID TO THE TOWN OF BROOKLYN AT THE TIME OF CONVEYANCE.

APPROVED BY THE BROOKLYN INLAND WETLANDS & WATERCOURSES COMMISSION

CHAIRMAN _____ DATE _____

APPROVED BY THE BROOKLYN PLANNING & ZONING COMMISSION

CHAIRMAN _____ DATE _____

PER SECTION 8-26c OF THE CONNECTICUT GENERAL STATUTES, AMENDED, APPROVAL AUTOMATICALLY EXPIRES _____ IF ALL PHYSICAL IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE

DETAIL "A"
NOT TO SCALE
LOT CORNER
0.38'
0.18'
I.R. FND. (DISTURBED)

DETAIL "B"
NOT TO SCALE
I.R. FND. (DISTURBED)
0.36'
0.27'
LOT CORNER

DETAIL "C"
NOT TO SCALE
LOT CORNER
0.17'
0.49'
I.P. FND. (IN LOAM PILE)

LEGEND
IRON PIN / DRILL HOLE FOUND / SET
STONE WALL
EDGE OF WETLAND

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

PAUL A. TERWILLIGER, L.S. NO. 70155 — 10/13/2022 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE EMBOSSED SEAL OF THE LAND SURVEYOR WHOSE SIGNATURE APPEARS HEREON.

SUBDIVISION MAP

LOT LAYOUT PLAN

PREPARED FOR

NAOMI L. REGIS

ALLEN HILL ROAD

BROOKLYN, CONNECTICUT

DATE: OCTOBER 2022

SCALE: 1" = 60'

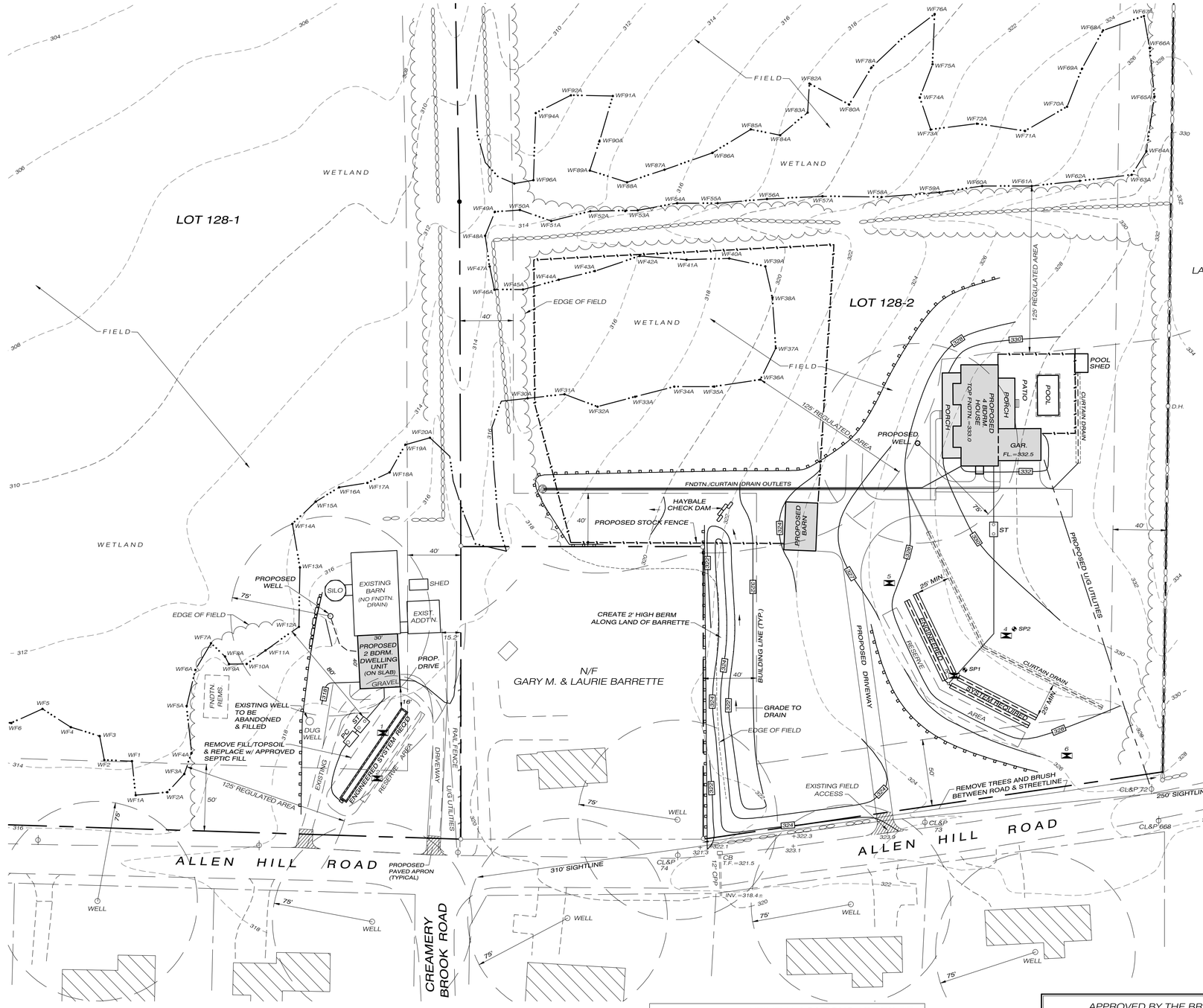
0 30' 60' 120' 180'

JOB NO: 21044 | F.B. NO: 219 | DRAWN BY: P.A.T. | MAP NO:

SURVEYING • MAPPING • PLOT PLANS • TOPOGRAPHY • SUBDIVISION • LAND RECORD RESEARCH
Survey Associates, llc
email: pcsurvey@snet.net
63 SNAKE MEADOW RD
KILLINGLY, CT 06239
860 774 6230

SHEET NO: 2 OF 4

REVISED:



NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT", AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A GENERAL LOCATION SURVEY BASED ON A RESURVEY AND ORIGINAL SURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS C. SEE SHEET 2 FOR PROPERTY LINE INFORMATION. TOPOGRAPHIC FEATURES WERE TAKEN FROM NOAA LIDAR DATA AND CONFORM TO TOPOGRAPHIC ACCURACY CLASS T-D. VERTICAL DATUM IS NAVD88. THIS MAP HAS BEEN PREPARED FROM OTHER MAPS, RECORD RESEARCH, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS A PROPERTY/BOUNDARY OR LIMITED PROPERTY/BOUNDARY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
2. ZONING DISTRICT: R-30
3. PROPOSED IMPROVEMENTS ARE CONCEPTUAL LOCATIONS TO SHOW LOT SUITABILITY ONLY.
4. SOLAR ACCESS WAS CONSIDERED IN THE DESIGN OF THIS SUBDIVISION. THE HOUSE LOCATIONS DEPICTED ARE ONLY CONCEPTUAL IN NATURE AND IT IS UP TO THE LOT DEVELOPER TO TAKE ADVANTAGE OF THE PASSIVE SOLAR OPPORTUNITIES PRESENTED BY THESE LOTS AT THE TIME OF ACTUAL HOUSE CONSTRUCTION. THE DEVELOPER IS ENCOURAGED TO UTILIZE PASSIVE SOLAR TECHNIQUES AND IT IS RECOMMENDED THAT SUCH FACTORS AS HOUSE ORIENTATION, WINDOW LOCATION AND STYLE, CLEARING LIMITS AND POSITION ON THE LOT BE TAKEN INTO CONSIDERATION WHEN DEVELOPMENT OCCURS.
5. THE INLAND WETLANDS & WATERCOURSES WERE FIELD DELINEATED IN AUGUST 2016 BY JOSEPH R. THEROUX, SOIL SCIENTIST.
6. MAXIMUM DRIVEWAY GRADE PERMITTED IS 12%. GRADES OF 10% OR GREATER ARE TO BE PAVED. PROPOSED DRIVEWAY GRADES DEPICTED ARE AT LESS THAN 10%.
7. SEE SHEET 4 FOR EROSION & SEDIMENT CONTROL PLAN.
8. THERE ARE NO APPARENT WELLS WITHIN 75 FEET OF THE PROPOSED SEPTIC AREAS DEPICTED.
9. SEE SHEET 2 FOR PROPERTY BOUNDARY INFORMATION.
10. LOCATION OF OFF SITE IMPROVEMENTS ARE APPROXIMATE.
11. EACH LOT WILL REQUIRE AN ENGINEER DESIGNED PLAN TO BE SUBMITTED TO THE NORTHEAST DISTRICT DEPARTMENT OF HEALTH FOR APPROVAL AT THE TIME OF LOT DEVELOPMENT.

SEPTIC SYSTEM NOTES - LOT 128-1

2 BEDROOM DWELLING UNIT
PERCOLATION RATE: 16 MIN./INCH
EFFECTIVE LEACHING AREA REQUIRED = 500 SF
MLSS CALCULATION
DEPTH TO RESTRICTIVE LAYER = 40" (18")
SLOPE = 1-2%
H.F.= 62 x F.F.=1.0 x P.F.=1.25 MLSS REQUIRED = 77.5 LF
MAXIMUM DEPTH INTO GRADE: 22" (REMOVE FILL/TOPSOIL)
PUMPED SYSTEM REQUIRED
INSTALL ELJEN MANTIS 536-8 LOW-PRO LEACHING UNITS OR 12" CONC. GALLERIES w/ 4" PERF. PVC IN STONE
EFFECTIVE LEACHING AREA OF TRENCH = 6.5 SF/LF
LENGTH OF TRENCH REQUIRED = (500 SF)/(6.5 SF/LF) = 77 LF
USE ONE 80' TRENCH
MLSS PROVIDED = 80'
LEACHING AREA PROVIDED = 520 SF
SEPTIC TANK: 1000 GALLON
PUMP CHAMBER: 1000 GALLON

SEPTIC SYSTEM NOTES - LOT 128-2

4 BEDROOM HOUSE
PERCOLATION RATE: 10.1-20 MIN./INCH
EFFECTIVE LEACHING AREA REQUIRED = 787.5 SF
MLSS CALCULATION
DEPTH TO RESTRICTIVE LAYER = 18"
SLOPE = 3.1-4%
H.F.= 48 x F.F.=1.75 x P.F.=1.25 MLSS REQUIRED = 105 LF
USE STANDARD 12" DEEP x 48" WIDE LEACHING TRENCHES
MAXIMUM DEPTH INTO GRADE: 0"
EFFECTIVE LEACHING AREA OF TRENCH = 3.0 SF/LF
LENGTH OF TRENCH REQUIRED = (787.5 SF)/(3.0 SF/LF) = 262.5 LF
USE TWO 132' TRENCHES 8' O/C
MLSS PROVIDED = 132'
LEACHING AREA PROVIDED = 792 SF
SEPTIC TANK: 1500 GALLON

STANDPIPE MONITORING BY NDDH

SP1 - TOP OF PIPE TO GRD. = 15"

DATE	READING	DEPTH TO WATER
3/11/2022	19.5"	4.5"
3/15/2022	29"	14"
3/21/2022	34"	19"
3/29/2022	38"	23"
4/4/2022	33"	18"
4/11/2022	30"	15"
4/22/2022	38"	23"
4/29/2022	40"	25"
5/12/2022	41.5"	26.5"

SP2 - TOP OF PIPE TO GRD. = 14.5"

DATE	READING	DEPTH TO WATER
3/11/2022	19"	4.5"
3/15/2022	28"	13.5"
3/21/2022	32"	17.5"
3/29/2022	35"	20.5"
4/4/2022	31.75"	17.25"
4/11/2022	29"	14.5"
4/22/2022	36.5"	21.5"
4/29/2022	39"	24.5"
5/12/2022	42"	27.5"

MLSS PER HYDRAULIC ANALYSIS PERFORMED BY KILLINGLY ENGINEERING ASSOCIATES ON 10/5/2022 = 65.2'

SOIL TEST DATA

SOIL TESTING PERFORMED 2/23/2022

TP1

0-22" FILL
22-25" ORIGINAL TOPSOIL
25-40" LIGHT BROWN SANDY LOAM
40-60" GRAY VERY COMPACT SANDY LOAM
60-69" GROUNDWATER

MOTTLING AT 40" (18")
WATER AT 60"
NO LEDGE

TP2

0-10" TOPSOIL
10-22" FILL
22-23" ORIGINAL TOPSOIL
23-28" DARK BROWN SANDY LOAM
28-40" TAN FINE SANDY LOAM
40-68" GRAY VERY COMPACT SANDY LOAM
68-76" GROUNDWATER

MOTTLING AT 40" (18")
WATER AT 50-68"
NO LEDGE

PERCOLATION RATE: 16 MIN./INCH

TP 3

0-11" TOPSOIL
11-18" BROWN SANDY LOAM
18-41" GRAY VERY COMPACT SANDY LOAM
41-64" GROUNDWATER

MOTTLING AT 18"
WATER AT 16-41"
NO LEDGE

TP 4

0-10" TOPSOIL
10-16" BROWN SANDY LOAM
16-48" GRAY VERY COMPACT SANDY LOAM
48-66" GROUNDWATER

MOTTLING AT 16"
WATER AT 48"
NO LEDGE

SOIL TESTING PERFORMED 8/9/2022

TP 5

0-8" TOPSOIL
8-18" BROWN FINE SANDY LOAM
18-78" MOTTLED GRAY COMPACT SANDY LOAM

MOTTLING AT 18"
NO WATER
NO LEDGE

TP 6

0-10" TOPSOIL
10-20" BROWN FINE SANDY LOAM
20-69" MOTTLED GRAY COMPACT SANDY LOAM

MOTTLING AT 20"
NO WATER
NO LEDGE

PERCOLATION RATE: 10.1-20 MIN./INCH

LEGEND

- IRON PIN / DRILL HOLE FOUND
- IRON ROD SET
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT GRADE
- TEST PIT
- STANDPIPE
- EROSION CONTROL BARRIER
- EDGE OF WETLAND

UNDERGROUND UTILITY LOCATIONS ARE TO BE MARKED IN THE FIELD PRIOR TO ANY EXCAVATION
"CALL BEFORE YOU DIG" 1 800 922 4455

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

PAUL A. TERWILLIGER, L.S. NO. 70155 — 12/5/2022 DATE

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE EMBOSSED SEAL OF THE LAND SURVEYOR WHOSE SIGNATURE APPEARS HEREON.

APPROVED BY THE BROOKLYN INLAND WETLANDS & WATERCOURSES COMMISSION

CHAIRMAN — DATE

APPROVED BY THE BROOKLYN PLANNING & ZONING COMMISSION

CHAIRMAN — DATE

PER SECTION 8-26c OF THE CONNECTICUT GENERAL STATUTES, AMENDED, APPROVAL AUTOMATICALLY EXPIRES _____ IF ALL PHYSICAL IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE

Killingly Engineering Associates
114 Westcott Road
P.O. Box 421
Dayville, Connecticut 06241
860 779 7299

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

GENERAL LOCATION SURVEY

SUBDIVISION LOT DEVELOPMENT PLAN

PREPARED FOR

NAOMI L. REGIS

ALLEN HILL ROAD
BROOKLYN, CONNECTICUT

DATE: OCTOBER 2022
SCALE: 1" = 40'

0 20' 40' 80' 120'

SURVEYING • MAPPING • PLOT PLANS
LAND RECORD RESEARCH • TOPOGRAPHY • SUBDIVISION
email: pcsurvey@snet.net
63 SNAKE MEADOW RD
KILLINGLY, CT 06239
860 774 6230

SHEET NO: 3 OF 4

REVISED: 11/16/2022
11/28/2022 - DRAINAGE
12/5/2022 - DRAINAGE
12/7/2022 - ENG. COMMENTS

JOB NO: 21044 | F.B. NO: 219 | DRAWN BY: P.A.T. | MAP NO:

ALL EROSION AND SEDIMENT CONTROL MEASURES AND PROCEDURES SHALL CONFORM TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, MAY 2002.

DEVELOPMENT

PROPOSED DEVELOPMENT WILL CREATE 2 NEW BUILDING LOTS. ACTIVITIES TO INCLUDE CONSTRUCTION OF DRIVEWAYS, HOUSES, SEPTIC SYSTEMS, WELLS, AND SITE GRADING. THE PRIMARY CONCERN OF THIS EROSION & SEDIMENT CONTROL PLAN IS TO PREVENT EXCESSIVE EROSION AND KEEP ERODED SEDIMENT FROM RUNNING OFF SITE OR INTO WETLAND AREAS. NO MATERIAL SHALL BE PLACED WITHIN A REGULATED WETLAND AREA EITHER ON OR OFF SITE.

CONSTRUCTION SEQUENCE: (INDIVIDUAL LOT DEVELOPMENT)

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES ALONG DOWN SLOPE SIDE OF THE PROPOSED LIMITS OF DISTURBANCE.
2. STRIP & STOCKPILE TOPSOIL.
3. PROVIDE ANTI TRACKING PAD AND TEMPORARY POWER TO THE SITE.
4. EXCAVATE FOUNDATION AND BEGIN CONSTRUCTION OF RESIDENCE.
5. INSTALL SEPTIC SYSTEM AND WELL.
6. PROVIDE DRIVEWAY AND UTILITIES TO THE RESIDENCE.
7. LOAM, SEED & MULCH DISTURBED AREAS.
8. REMOVE EROSION AND SEDIMENT CONTROL WHEN VEGETATIVE COVER HAS BEEN ESTABLISHED.

GENERAL DEVELOPMENT PLAN

PRIOR TO THE COMMENCEMENT OF OPERATIONS IN ACCORDANCE WITH ANY PERMIT ISSUED BY THE TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES.

THE CONTRACTOR SHALL OBTAIN A SITE INSPECTION FROM THE TOWN OF BROOKLYN ZONING ENFORCEMENT OFFICER OR WETLANDS AGENT TO ENSURE THAT ALL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS NARRATIVE. UPON APPROVAL WITH RESPECT TO THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR MAY COMMENCE OPERATIONS PURSUANT TO THE PERMIT. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE "SILT FENCE INSTALLATION & MAINTENANCE" AND "HAY BALE INSTALLATION & MAINTENANCE" SECTIONS OF THIS NARRATIVE.

ALL STRIPPING IS TO BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. TOPSOIL SHALL BE STOCKPILED SO THAT SLOPES DO NOT EXCEED 2 TO 1. THERE SHALL BE NO BURIAL OF STUMPS. A HAY BALE SEDIMENT BARRIER IS TO SURROUND EACH STOCKPILE AND A TEMPORARY VEGETATIVE COVER PROVIDED IF NECESSARY.

DUST CONTROL WILL BE ACCOMPLISHED BY SPRAYING WITH WATER.

FINAL STABILIZATION OF THE SITE IS TO FOLLOW THE PROCEDURES OUTLINED IN PERMANENT VEGETATIVE COVER. IF NECESSARY A TEMPORARY VEGETATIVE COVER IS TO BE PROVIDED UNTIL A PERMANENT COVER CAN BE APPLIED.

DURING THE STABILIZATION PERIOD, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL EROSION AND SEDIMENT CONTROL ON A TWICE-WEEKLY BASIS DURING THE STABILIZATION PERIOD AND AFTER EACH STORM EVENT. DURING THE STABILIZATION PERIOD WITH RESPECT TO THE SITE, ANY EROSION WHICH OCCURS WITHIN DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED, RESEEDED AND RE-ESTABLISHED.

ALL DISTURBED SLOPES SHALL BE STABILIZED WITHIN ONE SEASON (SPRING OR FALL) OF THE COMPLETION OF THE PROJECT BEFORE A CERTIFICATE OF COMPLIANCE WILL BE ISSUED.

ONCE STABILIZATION HAS BEEN COMPLETED AND APPROVED BY THE TOWN OF BROOKLYN ZONING ENFORCEMENT OFFICER, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED BY THE CONTRACTOR.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. DIG A 6" DEEP TRENCH ON THE UPHILL SIDE OF THE BARRIER LOCATION.
2. POSITION THE POSTS ON THE DOWNHILL SIDE OF THE BARRIER AND DRIVE THE POSTS 1.5 FEET INTO THE GROUND.
3. LAY THE BOTTOM 6" OF THE FABRIC IN THE TRENCH TO PREVENT UNDERMINING AND BACKFILL.
4. INSPECT AND REPAIR BARRIER AFTER HEAVY RAINFALL.
5. INSPECTIONS WILL BE MADE AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER TO DETERMINE MAINTENANCE NEEDS.
6. SEDIMENT DEPOSITS ARE TO BE REMOVED WHEN THEY REACH A HEIGHT OF 1 FOOT BEHIND THE BARRIER OR HALF THE HEIGHT OF THE BARRIER AND ARE TO BE DEPOSITED IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
7. REPLACE OR REPAIR THE FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE FENCE HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE FENCE BECAUSE:
   - THE FENCE HAS BEEN OVERTOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER,
   - THE FENCE HAS BEEN MOVED OUT OF POSITION, OR
   - THE GEOTEXTILE HAS DECOMPOSED OR BEEN DAMAGED.

HAY BALE INSTALLATION AND MAINTENANCE:

1. BALES SHALL BE PLACED AS SHOWN ON THE PLANS WITH THE ENDS OF THE BALES TIGHTLY ABUTTING EACH OTHER.
2. EACH BALE SHALL BE SECURELY ANCHORED WITH AT LEAST 2 STAKES AND GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER FROM PASSING BETWEEN THE BALES.
3. INSPECT BALES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCHES OR GREATER TO DETERMINE MAINTENANCE NEEDS.
4. REMOVE SEDIMENT BEHIND THE BALES WHEN IT REACHES HALF THE HEIGHT OF THE BALE AND DEPOSIT IN AN AREA WHICH IS NOT REGULATED BY THE INLAND WETLANDS COMMISSION.
5. REPLACE OR REPAIR THE BARRIER WITHIN 24 HOURS OF OBSERVED FAILURE. FAILURE OF THE BARRIER HAS OCCURRED WHEN SEDIMENT FAILS TO BE RETAINED BY THE BARRIER BECAUSE:
   - THE BARRIER HAS BEEN OVERTOPPED, UNDERCUT OR BYPASSED BY RUNOFF WATER,
   - THE BARRIER HAS BEEN MOVED OUT OF POSITION, OR
   - THE HAY BALES HAVE DETERIORATED OR BEEN DAMAGED.

TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY A JUTE NETTING COVER TO SLOPES OF 3:1 OR GREATER SLOPE.

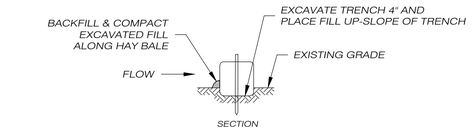
PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATION AND FILL PLACEMENT HAS BEEN COMPLETED AND THE SLOPES ARE GRADED TO A SLOPE NO GREATER THAN 2 TO 1. PROVIDE SLOPE PROTECTION ON ALL CUT SLOPES. TOPSOIL WILL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 4 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS, APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F. APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER S.F. WORK LIMESTONE INTO THE SOIL TO A DEPTH OF 4 INCHES. INSPECT SEEDBED BEFORE SEEDING. IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS. APPLY THE FOLLOWING GRASS SEED MIX:

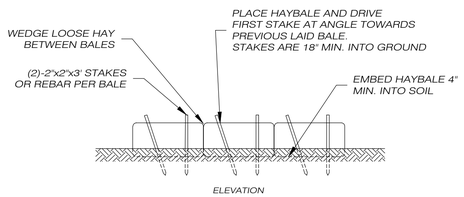
SEED MIXTURE	LBS./ACRE	LBS./1000 S.F.
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00

THE RECOMMENDED SEEDING DATES ARE: APRIL 1 - JUNE 15 AND AUGUST 1 - SEPTEMBER 15

FOLLOWING SEEDING MULCH WITH WEED FREE STRAW AND APPLY A JUTE NETTING COVER TO AREAS OF 3:1 OR GREATER SLOPE



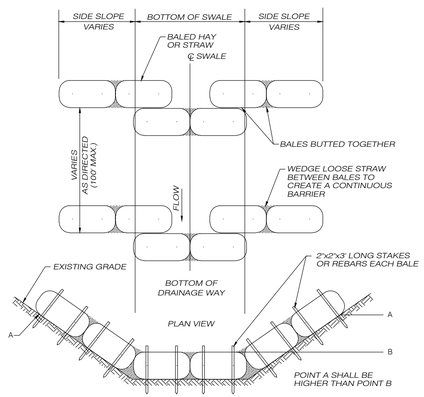
SECTION



ELEVATION

HAY BALE BARRIER DETAIL

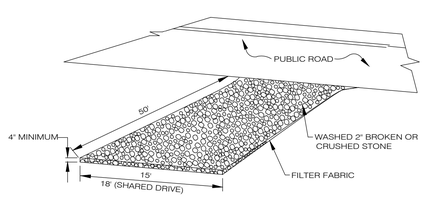
NOT TO SCALE



PLAN VIEW

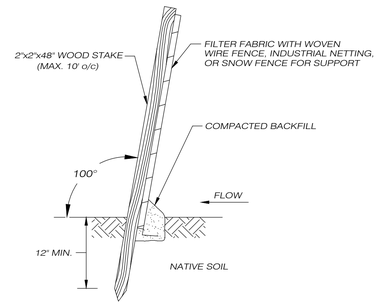
HAYBALE CHECK DAM

NOT TO SCALE



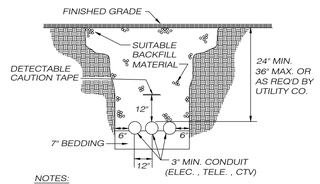
ANTI-TRACKING PAD

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

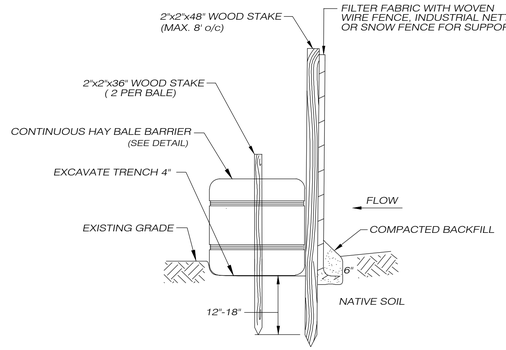


NOTES:

1. OSHA STANDARDS REQUIRE THAT SPOILS BE PLACED 24" MIN. FROM EDGE OF TRENCH.
2. SUITABLE BACKFILL SHALL NOT CONTAIN ASH, CINDER, SHELL, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" MAX. DIMENSION.
3. FUEL OR WATER LINES SHALL BE NO CLOSER THAN 18" IN ANY DIRECTION.

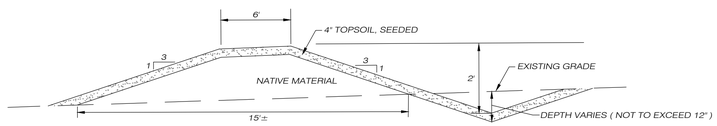
UTILITY TRENCH DETAIL

NOT TO SCALE



HAY BALE BACKED SILT FENCE DETAIL

NOT TO SCALE



BERM SECTION

NOT TO SCALE

APPROVED BY THE BROOKLYN PLANNING & ZONING COMMISSION

CHAIRMAN _____ DATE _____

PER SECTION 8-26c OF THE CONNECTICUT GENERAL STATUTES, AMENDED, APPROVAL AUTOMATICALLY EXPIRES _____ IF ALL PHYSICAL IMPROVEMENTS REQUIRED BY THIS PLAN ARE NOT COMPLETED BY THAT DATE

APPROVED BY THE BROOKLYN INLAND WETLANDS & WATERCOURSES COMMISSION

CHAIRMAN _____ DATE _____

SUBDIVISION OF LAND

EROSION CONTROL PLAN & CONSTRUCTION DETAILS

PREPARED FOR

NAOMI L. REGIS

ALLEN HILL ROAD

BROOKLYN , CONNECTICUT

DATE: OCTOBER 2022

SCALE: 1" = AS NOTED

0 .5" 1" 2" 3"

Killingly Engineering Associates
114 Westcott Road
P.O. Box 421
Dayville, Connecticut 06241
860 779 7299

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

SURVEYING • MAPPING • PLOT PLANS • LAND RECORD RESEARCH • TOPOGRAPHY • SUBDIVISION

email: pcsurvey@snet.net

63 SNAKE MEADOW RD
KILLINGLY, CT 06239
860 774 6230

REVISED: 12/5/2022
12/7/2022 - ENG. COMMENTS

JOB NO: 21044 | F.B. NO: N/A | DRAWN BY: P.A.T. | MAP NO:

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

Map 32 Lot 128
Allen Hill Rd. 2-Lot SUBD
Address

11/14/22
Date

I met Paul Zerwilliger, took photos and inspected.

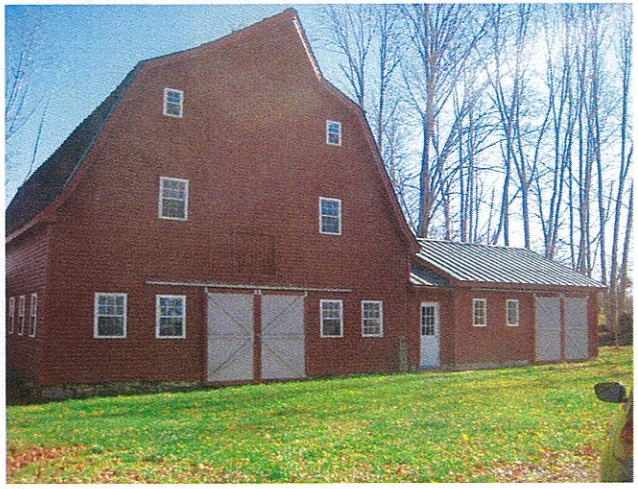
There are no IWWC issues that aren't shown on the plans for 2 proposed lots with single-family dwellings, wells, driveways + septic systems.

☒ Recommend approval.

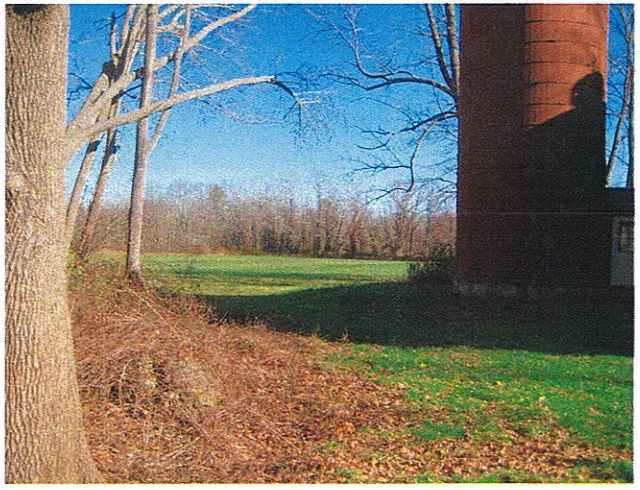
Commission Representative M. Washburn

Owner or Authorized Signature _____





Margaret Washburn

From: Contact form at Brooklyn CT <cmsmailer@civicplus.com>
Sent: Friday, November 25, 2022 8:50 AM
To: Margaret Washburn
Subject: [Brooklyn CT] water runoff concerns (Sent by Gary Barrette, gmbarrette@yahoo.com)

Hello mwashburn,

Gary Barrette (gmbarrette@yahoo.com) has sent you a message via your contact form (https://www.brooklynct.org/user/1173/contact) at Brooklyn CT.

If you don't want to receive such e-mails, you can change your settings at https://www.brooklynct.org/user/1173/edit.

Message:

Good Morning Margaret
I own and live on the property @ 432 Allen Hill Road. It looks like there're plans to build houses in the fields on the south side and the back of my property. I have concerns regarding the building of these new homes and the effect they'll have on my property. It was suggested I express my concerns and send them to you. If you aren't the right person to send these concerns to I'd appreciate it if you could forward them over to the appropriate party(s). During rainy periods I already get alot of runoff from especially the field on the south side once these fields get saturated. In fact a stream will form from the south side field and will run onto and flood my property. The stream forms probably somewhere between 20 - 30 ft from the road and as a result creates ponds on the side and front of my property, eventually running out the front and back of my property. The water that runs off the front of my property is especially dangerous during the Winter and early Spring months when the water freezes on the road and creates a skating rink that extends all the way to the front of Regis' barn property. My concern is that when the field properties are graded to keep water away from the new homes, and lawns and landscaping are put in place I'll be getting much more runoff than I've already been getting. Before these new home construction plans are accepted and started I would like to see some sort of plans to re-direct the water that comes from these fields to keep it away from my property. There is a drain and culvert in the road just past the south side of my property line that maybe the water can be directed to. That's just a thought but maybe something else can be engineered. Thank you.
Gary Barrette
432 Allen Hill Road
Brooklyn CT 06234
Cell # 860-315-0502

neccog

Neccog GIS Site

Legend

- Town
- Buildings 2012
- Parcels

Notes

432 Allen Hill Rd.
Gary Barrette

0.1 0 0.04 0.1 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

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

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 South Main Street · Unit 4 · Brooklyn, CT 06234
Phone (860) 774-7350 · Fax (860) 774-1308 · Web Site www.nddh.org

November 14, 2022

Naomi Regis
240 South Street
BROOKLYN, CT 06234

SUBJECT: FILE #16000170 -- ALLEN HILL ROAD #430, MAP #32, LOT #128, BROOKLYN, CT

Dear Naomi Regis:

The subject plan referenced above, (PC SURVEY ASSOCIATES, REGIS, JOB#21044, DRAWN OCT 2022) submitted to this office on 10/17/2022 for the above referenced Subdivision. Following this review, it has been determined that the plan must be returned for revision:

1. Lot 128-1 can be approved. Plot plan must show design criteria for either Mantis 536-8 or concrete galleries with heavy-duty pipe above the structures.
2. Lot 128-2 cannot be approved at this time. There is a five week average of ground water less than 18 inches below surface based upon standpipe readings. From March 11, 2022 through April 22, 2022 the average reading is 16.6 inches. According to Section VIII Section A of the Connecticut Department of Public Health Code, sites with less than 18 inches need to have a Professional Engineer conduct a hydraulic analysis to prove compliance with section 19-13-B103e (a)(4).
3. Underground utilities must be noted on plan.
4. Identify all well arcs. Neighboring lots must have no septic systems or sources of pollution within 75 feet of proposed well.

Please make the required revisions and submit three (3) copies of the plan for review. An additional review fee of $115.00 must accompany plans being submitted for a second review.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

Steven Knauf, R.S.
Registered Sanitarian-NDDH

cc: Town of Brooklyn Building Official; PC Survey Associates, LLC.

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 South Main Street · Unit 4 · Brooklyn, CT 06234
Phone (860) 774-7350 · Fax (860) 774-1308 · Web Site www.nddh.org

November 30, 2022

Naomi Regis
240 South Street
Brooklyn, CT 06234

SUBJECT: FILE #16000170 -- ALLEN HILL ROAD #430, MAP #32, LOT #128, BROOKLYN, CT

Dear Naomi Regis:

Upon review of the Subdivision Plan (PC SURVEY ASSOCIATES, REGIS, J0OB#21044, DRAWN OCT 2022, REVISED 11/16/2022 submitted to this office on 10/17/2022 for the above referenced subdivision, The Northeast District Department of Health concurs with the feasibility of this parcel of land for future development. Additionally, approval to construct individual subsurface sewage disposal systems may be granted based on compliance with appropriate regulations and the Technical Standards as they apply to individual building lots with the following notations:

1. Lots#1 and 2 require that a Professional Engineer design and submit individual plot plan(s) for review and approval prior to construction.
2. Proposed lots are based on 2 and 4 bedroom homes at the locations tested. If the number of bedrooms are increased, septic system sizes will require an increase per the Technical Standards.
3. If the proposed septic area is moved, additional testing may be required
4. Existing wells on lots must be properly abandoned per the Connecticut Public Health Code.

Be advised you must receive approval from the appropriate commissions in the Town of Brooklyn prior to construction of these lots.

This letter is NOT to be construed as an APPROVAL TO CONSTRUCT the septic system and DOES NOT indicate that the Northeast District Department of Health endorses approval for issuance of any building permit.

Should you have any questions, please feel free to contact the sanitarian that reviewed your plan.

Sincerely,

Donovan Moe

Donovan Moe, EHS
Environmental Health Specialist-NDDH

cc: Town of Brooklyn; PC Survey Associates

Joseph R. Theroux

~ Certified Forester/ Soil Scientist ~
Phone 860-428-7992~ Fax 860-376-6842
P.O. Box 32, Voluntown, CT. 06384
Forestry Services ~ Environmental Impact Assessments
Wetland Delineations and Permitting ~ E&S/Site Monitoring
Wetland function and value assessments

11/30/2022

P.C. Survey Assoc. LLC.
63 Snake Meadow Hill Rd.
Killingly, CT. 06239

Attn: Mr. Paul Terwilliger

Re: Regis Property Wetland delineation, Allen Hill Rd. Brooklyn, CT.

Dear Mr. Terwilliger,

At your request I have inspected the soil profiles directly adjacent to test pit #4 on the above referenced property.

I augered 6 holes and observed no low chroma soil colors within 20 inches of the soil surface. The shallowest redoximorphic features, (mottles), were found at 18 inches in depth in one hole. These features are not an indication of hydric soils, they merely indicate the depth in which the water table fluctuates.

In the remaining 5 holes, normal upland soil colors, (high chroma), were found.

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.

NORTHEASTERN CONNECTICUT COUNCIL OF GOVERNMENTS

ENGINEERING PLAN REVIEW
PERTAINING TO A
SITE DEVELOPMENT PLAN IN A 2-LOT SUBDIVISION
(ASSESSOR'S MAP 32, LOT 128)
ALLEN HILL ROAD
BROOKLYN, CT

(December 6, 2022)

The comments contained herein pertain to my review of plans, consisting of four sheets, entitled "Subdivision of Naomi L. Regis, Allen Hill Road, Brooklyn, Connecticut, October 2022," Prepared for Naomi L. Regis, prepared by PC Survey Associates, LLC, and Killingly Engineering Associates, dated October 2022 with most recent revision date of December 5, 2022.

Sheet 3 of 4 – Subdivision Lot Development Plan

1. Proposed development on Lots 128-1 & 128-2 have been reviewed.

2. The proposed berm and shallow swale along the south property line of the Barrette property is designed to divert stormwater flow from higher elevations on Lot 128-2 and prevent it from crossing the Barrette property. This arrangement should direct sheet flow to lower elevations on Lot 128-2 thus avoiding any impact to the Barrettes.

3. A construction detail is needed for the construction of the berm indicating the material to be used for its core, topsoil cover, height/width, and slope ratio not to exceed 3:1. The detail needs to be added to Sheet 4 of 4, "Erosion Control Plan and Construction Details."

4. The erosion control barrier drawn along the Barrette's south property line must be extended along a fifty (50) foot, more or less, portion of Barrette's east property line and then angled toward the northeast to meet the erosion control barrier drawn at the outlet of the foundation/curtain drain. This is to address possible erosion/sedimentation concerns below the area of disturbance at and below elevation +320.

5. On Lot 128-1, a new drinking water well is proposed within fifteen (15) feet of the existing barn. Has the soil been tested in a radius around the proposed well to determine if there is any contamination present (the existing "dug well" is not nearly as deep as a drilled well)? This question is the result of viewing a 1934 aerial photograph available on UCONN's ECO website, which shows that the existing barn is surrounded by many structures seen in the historic photograph that appear to support a fairly large farm. Also, in the photograph an orchard appears to be located there, too, which raises a concern of the possible use of chemicals and pesticides in the operation of the farm and possibly stored on the property. This needs further evaluation on the part of the Applicant to see if the proposed well location is viable.

By: Syl Pauley, Jr., P.E.

Syl Pauley, Jr., P.E., NECCOG Regional Engineer

RECEIVED
NOV 03 2022
Date _____
By _____

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Application # IWWC Subd22-002

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT Lori Pike MAILING ADDRESS PO Box 932 Brooklyn CT
APPLICANT'S INTEREST IN PROPERTY _____ PHONE _____ _____ EMAIL lori.kk.pike@gmail

PROPERTY OWNER IF DIFFERENT Wayne Jolley PHONE _____ _____
MAILING ADDRESS _____ EMAIL _____

ENGINEER/SURVEYOR (IF ANY) PaulArcher (Archer Surveying)
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS Allen Hill Rd, Brooklyn
MAP # 31 LOT # 97C ZONE ____ TOTAL ACRES _____ ACRES OF WETLANDS ON PROPERTY _____

PURPOSE AND DESCRIPTION OF THE ACTIVITY Re-Subdivision for Residential Single family Home

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 1000 ACRES 0.02

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED): _____

MITIGATION MEASURES (IF REQUIRED): WETLANDS/WATERCOURSES CREATED: CY _____ SQFT _____ ACRES _____

IS PARCEL LOCATED WITHIN 500FT OF AN ADJOINING TOWN? ND IF YES, WHICH TOWN(S) _____
IS THE ACTIVITY LOCATED WITHIN THE WATERSHED OF A WATER COMPANY AS DEFINED IN CT GENERAL STATUTES 25-32A? _____

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: Lori Pike DATE 11.3.22.

X OWNER: Wayne Jolley DATE 11-3-22

REQUIREMENTS

_____ APPLICATION FEE $ 150.00 STATE FEE ($60.00) $60.00 + $50.00

_____ 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

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

GIS CODE #: ___ ___ ___ ___ ___ ___ ___ ___ ___
For DEEP Use Only

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete and mail this form in accordance with the instructions on pages 2 and 3 to:
DEEP Land & Water Resources Division, Inland Wetlands Management Program, 79 Elm Street, 3rd Floor, Hartford, CT 06106
Incomplete or incomprehensible forms will be mailed back to the inland wetlands agency.

PART I: Must Be Completed By The Inland Wetlands Agency

1. DATE ACTION WAS TAKEN: year: _____ month: _____
2. ACTION TAKEN (see instructions, only use one code): _____
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 ACTION 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 action is occurring (print name(s)): _____, _____
6. LOCATION (see instructions for information): USGS quad name: _____ or number: _____
   subregional drainage basin number: _____
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Lori Pike
8. NAME & ADDRESS / LOCATION OF PROJECT SITE (print information): Allen Hill Rd, Brooklyn
   briefly describe the action/project/activity (check and print information): temporary ☐ permanent ☒ description: Residential Single family House
9. ACTIVITY *PURPOSE* CODE (see instructions, only use one code): _____
10. ACTIVITY *TYPE* CODE(S) (see instructions for codes): _____, _____, _____, _____
11. WETLAND / WATERCOURSE AREA ALTERED (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): _____ acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): _____ acres

DATE RECEIVED: **PART III: To Be Completed By The DEEP** DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO FORM CORRECTED / COMPLETED: YES NO

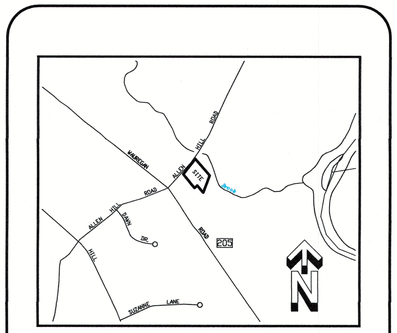
1 LOT RE SUBDIVISION

PREPARED FOR

Wayne Jolley & Lori Pike

Allen Hill Road
Brooklyn, Connecticut

Revised: November 28, 2022
November 3, 2022



LOCATION MAP
SCALE: 1" = 1,000'

APPROVED BY THE BROOKLYN
INLAND WETLANDS COMMISSION

CHAIRMAN DATE

Expiration date per section 22A-42A of the Connecticut General Statutes. Date: _____

APPROVED BY THE BROOKLYN
PLANNING AND ZONING COMMISSION

CHAIRMAN DATE

Expiration date per section 8.26C of the Connecticut General Statutes. Date: _____

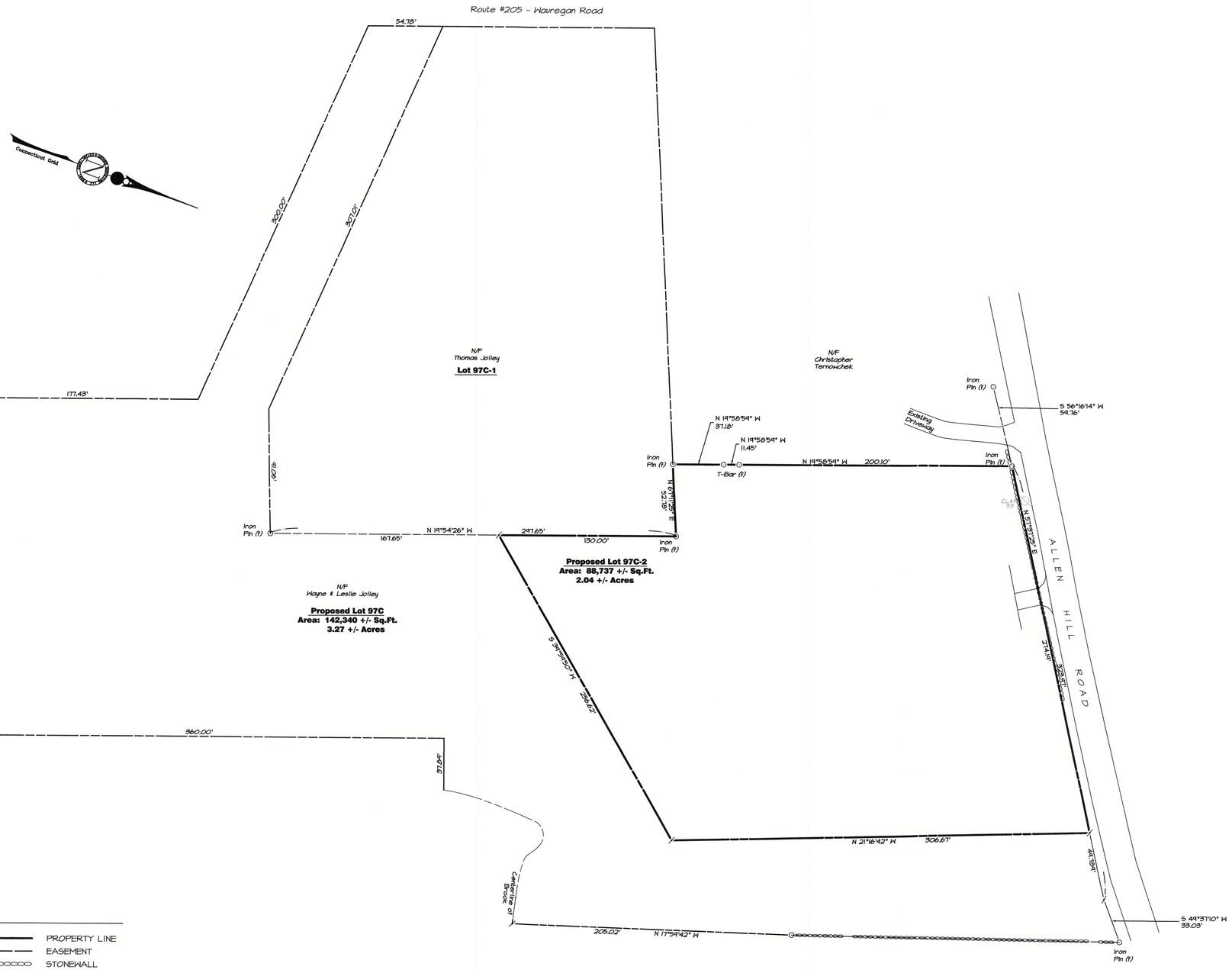
PREPARED BY

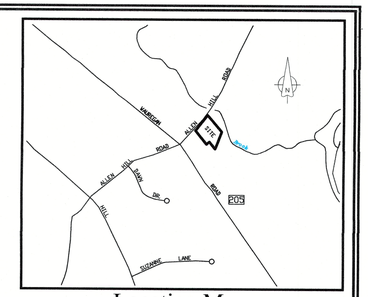
ARCHER Surveying LLC
18 Providence Road, Brooklyn, CT
(860) 779-2240

KWP associates
SURVEYING ~ ENGINEERING ~ SITE PLANNING
18 Providence Road
Brooklyn, CT 06234

INDEX OF DRAWINGS

RECEIVED
DEC 01 2022
By





Location Map

SCALE

1000 0 1000

1" = 1000 FT

Notes

1. 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, 1996

- This Survey conforms to a Class "A-2" Horizontal Accuracy on Propose Lot
  Class "D" on Remaining Lot
  Class "T-2" Vertical Accuracy
- Survey Type: Subdivision Plan
- Boundary Determination: Resurvey on Existing
  Original on proposed Lot
- Intent: Residential Development

2. Parcels shown as 97C on Assessors Tax Map 31 of the Brooklyn Assessors Office

3. Topographic information obtained from an actual field survey.

4. Wetlands were delineated by Joseph Theroux and field located by Archer Surveying LLC.

5. This Subdivision does include land areas within the Federal Emergency Management Agency's 100 year flood hazard area

6. There are not Known endangered species or species of special concern on the subject property nor within 1 mile of the subject property per the December 2021 Natural Diversity Data Base Mapping

7. The Subdivision Regulations of the Town of Brooklyn are a part of this plan. Approval of this plan is contingent on completion of the requirements of said regulations, excepting any variances or modifications are on file in the office of the commission.

8. North orientation, bearings and coordinate values shown are based on Map Reference #1

9. Passive Solar Energy techniques were considered in the design of the subdivision

Map References

1. Re-Subdivision Plan Prepared for Wayne L. Jolley & Leslie A. Jolley, Wauregan Road (Route 205) & Allen Hill Road, Brooklyn, Connecticut, Date: March 2008 - Revised May 2009, Prepared by Provost & Robero Inc.

LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING TREELINE
- SILT FENCE
- EXISTING INDEX CONTOUR (100)
- EXISTING CONTOUR (100)
- PROPOSED CONTOUR (100)
- WETLANDS FLAG
- BUILDING SETBACK
- IRON PIN
- DRILL HOLE
- MONUMENT
- PERCOLATION TEST
- TEST PIT
- PROPERTY POINT
- UTILITY POLE (CL&P 1645)

To the best of my knowledge and belief, this map is substantially correct as noted hereon. Paul M. Archer, L.L.S. #70013

STATE OF CONNECTICUT PAUL M. ARCHER No. 70013 LICENSED LAND SURVEYOR

11-29-22

No certification is expressed or implied unless this map bears the embossed seal of the land surveyor whose signature appears hereon.

KWP associates

SURVEYING ~ ENGINEERING ~ SITE PLANNING

18 Providence Road
Brooklyn, CT 06234

REVISIONS	
DATE	DESCRIPTION

ReSubdivision Plan

"1 Lot Subdivision"

Prepared For:
Wayne Jolley & Lori Pike
Allen Hill Road
Brooklyn, Connecticut

DRAWING SCALE: 1"=40'

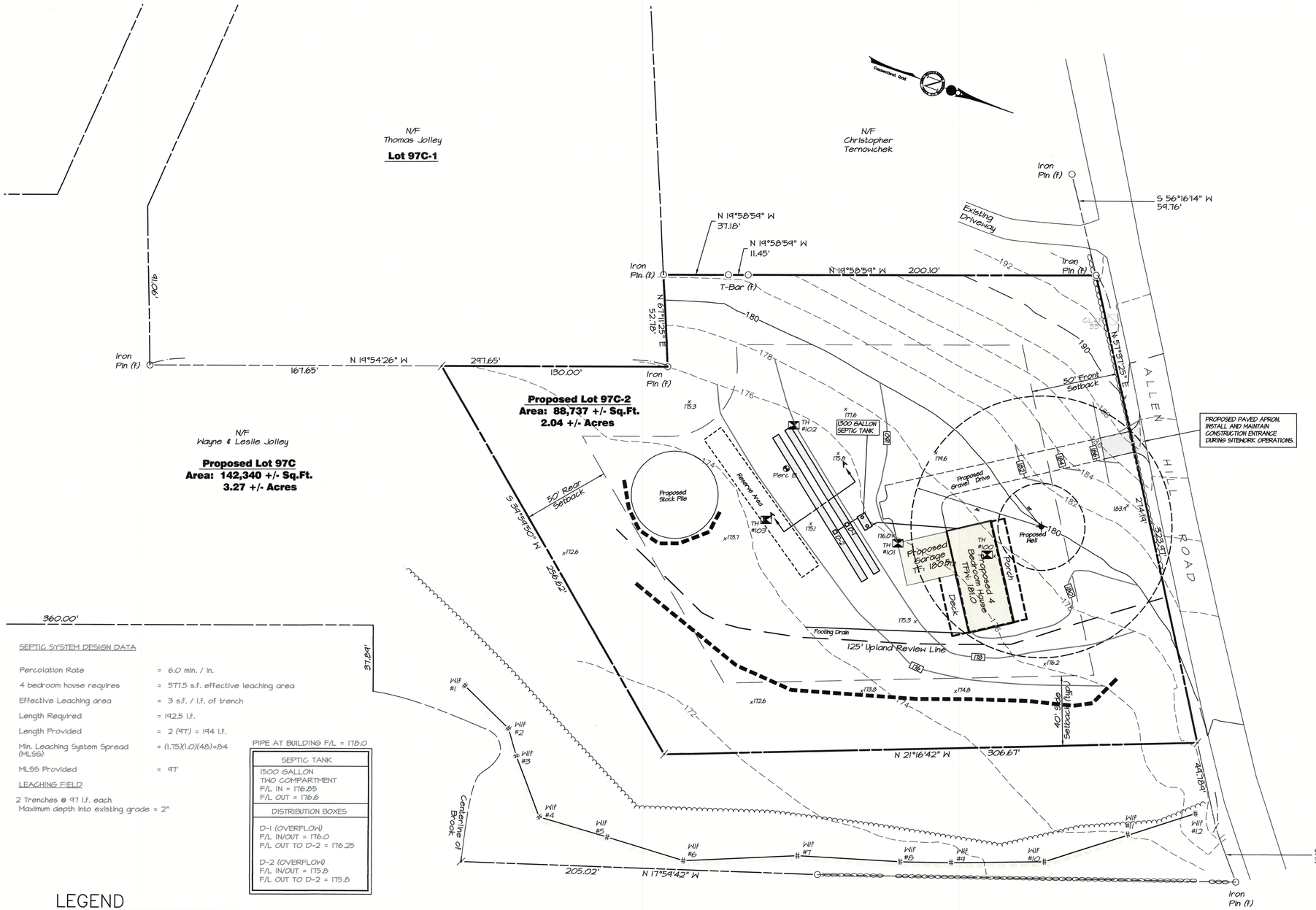
0 40 80

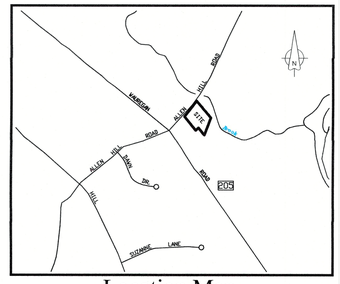
ARCHER Surveying LLC

18 Providence Road, Brooklyn, CT
(860) 779-2240

Sheet No.	Project No.	Date:
2 OF 5	2046	November 3, 2022

ARCHER Surveying LLC





Location Map

SCALE

1000 0 1000

1" = 1000 FT

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- This Survey conforms to a Class "A-2" Horizontal Accuracy
  Class "T-2" Vertical Accuracy
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- Boundary Determination: Resurvey on Existing
  Original on new Lot
- Intent: Residential Development

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7. The Subdivision Regulations of the Town of Brooklyn are a part of this plan. Approval of this plan is contingent on completion of the requirements of said regulations, excepting any variances or modifications are on file in the office of the commission.

8. North orientation, bearings and coordinate values shown are based on Map Reference #1

9. Passive Solar Energy techniques were considered in the design of the subdivision

SEPTIC SYSTEM DESIGN DATA

Percolation Rate	= 6.0 min. / in.
4 bedroom house requires	= 577.5 s.f. effective leaching area
Effective Leaching area	= 3 s.f. / l.f. of trench
Length Required	= 192.5 l.f.
Length Provided	= 2 (97') = 194 l.f.
Min. Leaching System Spread (MLSS)	= (1.75)(1.0)(48)=84
MLSS Provided	= 97'

LEACHING FIELD

2 Trenches @ 97 l.f. each
Maximum depth into existing grade = 2"

PIPE AT BUILDING F/L = 178.0

SEPTIC TANK
1500 GALLON TWO COMPARTMENT F/L IN = 176.85 F/L OUT = 176.6
DISTRIBUTION BOXES
D-1 (OVERFLOW) F/L IN/OUT = 176.0 F/L OUT TO D-2 = 176.25 D-2 (OVERFLOW) F/L IN/OUT = 175.8 F/L OUT TO D-2 = 175.8

LEGEND

- PROPERTY LINE
- EASEMENT
- STONEWALL
- STONEWALL REMAINS
- EXISTING TREELINE
- SILT FENCE
- EXISTING INDEX CONTOUR
- EXISTING CONTOUR
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- WETLANDS FLAG
- BUILDING SETBACK
- IRON PIN
- DRILL HOLE
- MONUMENT
- PERCOLATION TEST
- TEST PIT
- PROPERTY POINT
- UTILITY POLE (CL&P 1645)

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY: Maureen Marcoux

WITNESSED BY: NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 12/13/2021

TEST PIT: 100	
0" - 15"	Topsoil w/ Roots
15" - 40"	Brown Fine Sandy Loam
40" - 72"	Gray Silty Sand Band
40" - 72"	Sand & Gravel
MOTTLES:	NO
GROUNDWATER:	NO
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	38"

TEST PIT: 101	
0" - 12"	Topsoil w/ Roots
12" - 21"	Brown Fine Sandy Loam
21" - 24"	Gray Silty Fine Sand Band
24" - 35"	Sand & Gravel
35" - 84"	Grey Very Fine Sandy Silt
MOTTLES:	21"
GROUNDWATER:	NO
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	21"

PERCOLATION DATA

PERC AA - DEPTH 23"

TIME	DROP (INCHES)
12:00	2.0
12:10	5.5
12:15	6.75
12:20	7.75
12:25	Empty

PERCOLATION RATE > 5.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 12/13/21
PERFORMED BY Maureen Marcoux

DEEP TEST PIT DATA / SOIL DESCRIPTIONS

PERFORMED BY: Donovan Moe

WITNESSED BY: NORTHEAST DISTRICT DEPARTMENT OF HEALTH DATE: 9/92022

TEST PIT: 102	
0" - 12"	Topsoil
12" - 24"	Brown Fine Sandy Loam
24" - 34"	Tan Fine Sand
34" - 42"	Gray Silty Sand Band
42" - 80"	Washed Coarse Sand & Gravel
MOTTLES:	34"
GROUNDWATER:	NO
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	34"

TEST PIT: 103	
0" - 8"	Topsoil
8" - 20"	Brown Sandy Loam with Peddles
20" - 72"	Gray Fine Silty Sandy Loam
MOTTLES:	20"
GROUNDWATER:	NO
LEDGE:	NO
ROOTS:	NO
RESTRICTIVE:	20"

PERCOLATION DATA

PERC B - DEPTH 23"

TIME	DROP (INCHES)
9:00	14.0
9:06	17.0
9:12	18.0
9:18	19.0
9:24	20.0
9:30	21.0
9:36	22.0

PERCOLATION RATE > 6.0 MIN./IN.

NOTES:
PERCOLATION TEST PERFORMED ON 9/9/2021
PERFORMED BY Donovan Moe

11/28/2022
DAVID A. SMITH, P.E. #14173 DATE
NOT VALID UNLESS SEAL IS AFFIXED HERETO

To my knowledge and belief, this map is substantially correct as noted hereon.

STATE OF CONNECTICUT · PAUL M. ARCHER · No. 70013 · LICENSED LAND SURVEYOR

11-28-22
Paul M. Archer, L.S. #70013

No certification is expressed or implied unless this map bears the embossed seal of the land surveyor whose signature appears hereon.

Site Development Plan

Prepared For:
Wayne Jolley & Lori Pike
Allen Hill Road
Brooklyn, Connecticut

DRAWING SCALE: 1"=30' (0 30 60)

KWP associates
SURVEYING ~ ENGINEERING ~ SITE PLANNING
18 Providence Road
Brooklyn, CT 06234

ARCHER Surveying LLC
18 Providence Road, Brooklyn, CT
(860) 779-2240

REVISIONS	
DATE	DESCRIPTION
11-28-22	New House Location & Septic System

Sheet No. 3 OF 5 | Project No. 2046 | Date: November 3, 2022

ARCHER Surveying LLC

EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

1. Connecticut Guidelines for Soil Erosion and Sediment Control 2002 (2002 Guidelines).
2. Soil Survey of Windham County Connecticut, U.S.D.A. Soil Conservation Service 1983.

DEVELOPMENT SCHEDULE: (Individual Lots):

1. Prior to any work on site, the limits of disturbance shall be clearly flagged in the field by a Land Surveyor, licensed in the State of Connecticut. Once the limits of clearing are flagged, they shall be reviewed and approved by an agent of the Town.
2. Install and maintain erosion and sedimentation control devices as shown on these plans. All erosion control devices shall be inspected by an agent of the Town. Any additional erosion control devices required by the Town's Agent shall be installed and inspected prior to any construction on site. (See silt fence installation notes.)
3. Install construction entrance.
4. Construction will begin with clearing, grubbing and rough grading of the proposed site. The work will be confined to areas adjacent to the proposed building, septic system and driveway. Topsoil will be stockpiled on site and utilized during final grading.
5. Begin construction of the house, septic system and well.
6. Disturbed areas shall be seeded and stabilized as soon as possible to prevent erosion.
7. The site will be graded so that all possible trees on site will be saved to provide buffers to adjoining lots.

DEVELOPMENT CONTROL PLAN:

1. Development of the site will be performed by the individual lot owner, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
2. The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
3. All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
4. Dust control will be accomplished by spraying with water and if necessary, the application of calcium chloride.
5. The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
6. Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover". If necessary a temporary vegetative cover is to be provided until a permanent cover can be applied.

SILT FENCE INSTALLATION AND MAINTENANCE:

1. Dig a 6" deep trench on the uphill side of the barrier location.
2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the ground.
3. Lay the bottom 6" of the fabric in the trench to prevent undermining and backfill.
4. Inspect and repair barrier after heavy rainfall.
5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has occurred when sediment fails to be retained by the fence because:
   - the fence has been overtopped, undercut or bypassed by runoff water,
   - the fence has been moved out of position (knocked over), or
   - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each other.
2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the Inland Wetlands Commission.
5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
   - the barrier has been overtopped, undercut or bypassed by runoff water,
   - the barrier has been moved out of position, or
   - the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year.

SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment basins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding.

MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage.

MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion.

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent reoccurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
2. Once the topsoil has been spread, all stones 2" or larger in any dimension will be removed as well as debris.
3. Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
4. Inspect seedbed before seeding. If traffic has compacted the soil, refill compacted areas.
5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 & August 15 - October 1.
6. Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

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.
- Grade and landscape around buildings and septic systems to divert water away from them.

SEPTIC SYSTEM CONSTRUCTION NOTES

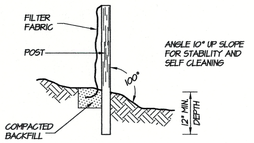
1. The building, septic system and well shall be accurately staked in the field by a licensed Land Surveyor in the State of Connecticut, prior to construction.
2. Topsoil shall be removed and in the area of the primary leaching field scarified, prior to placement of septic fill. Septic fill specifications are as follows:

   - Max. percent of gravel (material between No. 4 & 3 inch sieves) = 45%

   GRADATION OF FILL (MINUS GRAVEL)

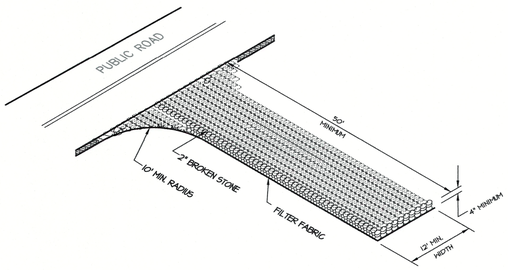
SIEVE SIZE	PERCENT PASSING (WET SIEVE)	PERCENT PASSING (DRY SIEVE)
No. 4	100%	100%
No. 10	70% - 100%	70% - 100%
No. 40	10% - 50%	10% - 75%
No. 100	0% - 20%	0% - 5%
No. 200	0% - 5%	0% - 2.5%

   Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (10') beyond the last leaching trench before tapering off.
3. Septic tank shall be two compartment precast 1250 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
4. Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
5. 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.
6. 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.
7. Perforated distribution pipe shall be 4" diameter PVC meeting ASTM D-2729 or ASTM D-3350, 1500 lb. minimum crush.
8. 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.
9. Force main pressure pipe from pump chamber to the leaching field shall be 2" diameter pvc meeting ASTM D 2241 SDR 21.
10. 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.



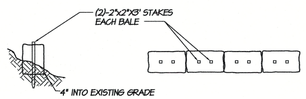
SILT FENCE

NOT TO SCALE



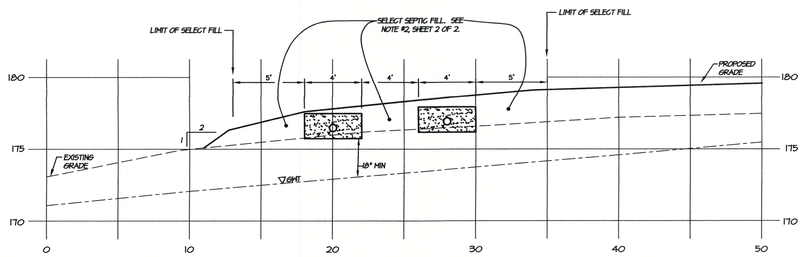
CONSTRUCTION ENTRANCE

NOT TO SCALE



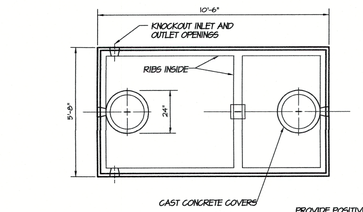
HAYBALE BARRIER

NOT TO SCALE

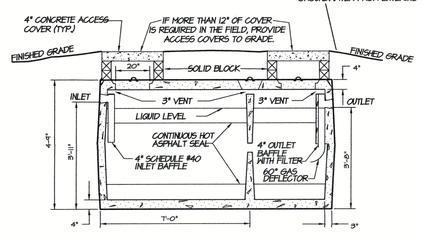


CROSS SECTION "A-A"

SCALE: 1" = 5'



PLAN



CROSS SECTION

1500 GALLON 2 COMPARTMENT SEPTIC TANK

NOT TO SCALE

TYPICAL LEACHING TRENCH SECTION

NOT TO SCALE

Site Development Plan

"Detail Sheet"

Prepared For:

Wayne Jollye & Lori Pike

Allen Hill Road

Brooklyn, Connecticut

KWP associates

SURVEYING ~ ENGINEERING ~ SITE PLANNING

18 Providence Road
Brooklyn, CT 06234

REVISIONS

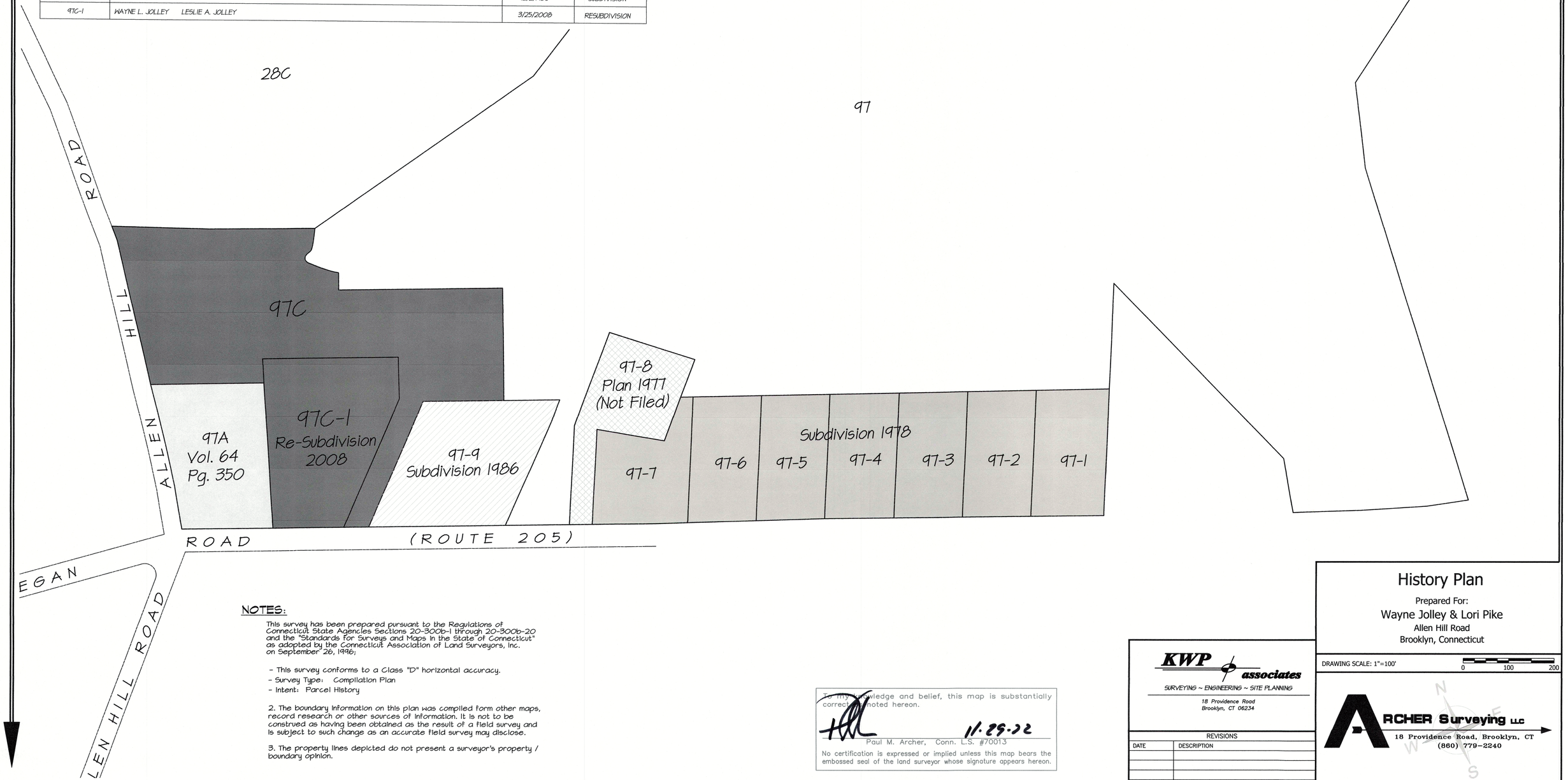
DATE	DESCRIPTION

ARCHER Surveying LLC

18 Providence Road, Brooklyn, CT
(860) 779-2240

HISTORICAL DATA

LOT #	GRANTOR	GRANTEE	VOL.	PG	DATE	REMARKS
97, 97-1 THRU 97-9 97A & 97C	RALPH W. FISK FLORENCE K. FISK	FREDERICK F. JOLLEY	37	122	10/15/1962	80± ACRES
97 & 97A	FREDERICK F. JOLLEY	MERCIER AND SONS	64	350	6/14/1977	80± ACRES
97A	FREDERICK F. JOLLEY	FREDERICK F. JOLLEY	64	350	6/14/1977	EXCEPTION IN DEED
97-1 THRU 97-7	MERCIER AND SONS - " PINE ACRES SECTION 1"				9/1/1978	SUBDIVISION
97-8	MERCIER AND SONS, INC.	LEONARD F. ALBEE HAZEL M. ALBEE	76	691	11/15/1983	
97 & 97C	MERCIER AND SONS, INC.	BROOKLYN LAND CORPORATION	76	821	1/4/1984	80 +/- AC NO EXCEPTION
97C	BROOKLYN LAND CORPORATION	BROOKLYN SAND & GRAVEL, INC	76	971	1/27/1984	9.1± ACRES
97C	BROOKLYN SAND & GRAVEL, INC	BROOKLYN LAND CORPORATION	76	994	2/10/1984	9.1± ACRES
97C, 97 & 97-9	FRED JOLLEY	WAYNE L. JOLLEY LESLIE A. JOLLEY	78	882	1/9/1985	
97C, 97-1 & 97-2	BROOKLYN LAND CORPORATION	WAYNE L. JOLLEY LESLIE A. JOLLEY	79	657	4/5/1985	
97-9	WAYNE L. JOLLEY LESLIE A. JOLLEY				12/2/1986	SUBDIVISION
97C-1	WAYNE L. JOLLEY LESLIE A. JOLLEY				3/25/2008	RESUBDIVISION



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;

- This survey conforms to a Class "D" horizontal accuracy.
- Survey Type: Compilation Plan
- Intent: Parcel History

2. The boundary information on this plan was compiled form other maps, record research or other sources of information. It is not to be construed as having been obtained as the result of a field survey and is subject to such change as an accurate field survey may disclose.

3. The property lines depicted do not present a surveyor's property / boundary opinion.

To my knowledge and belief, this map is substantially correct as noted hereon.

11.29.22

Paul M. Archer, Conn. L.S. #70013

No certification is expressed or implied unless this map bears the embossed seal of the land surveyor whose signature appears hereon.

KWP associates

SURVEYING ~ ENGINEERING ~ SITE PLANNING

18 Providence Road
Brooklyn, CT 06234

REVISIONS	
DATE	DESCRIPTION

History Plan

Prepared For:

Wayne Jolley & Lori Pike

Allen Hill Road

Brooklyn, Connecticut

DRAWING SCALE: 1"=100'

0 100 200

ARCHER Surveying LLC

18 Providence Road, Brooklyn, CT
(860) 779-2240

Sheet No.	Project No.	Date:
5 OF 5	2046	November 2, 2022

ARCHER Surveying LLC

Brooklyn Land Use Department

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

Inland Wetlands V Zoning Enforcement _____ Blight Enforcement _____

SITE INSPECTION NUMBER (1) 2 3 4 5

Map 31 Lot 97C
Allen Hill Rd.
Address

11/14/22
Date

I inspected and took photographs from Allen Hill Road.

The only IWWC issue is that the footing drain is shown extending closer to the wetlands than the sediment controls. There will therefore be digging with no sediment controls downslope between the drain and the wetlands unless the plan is revised.

Commission Representative M. Washburn

Owner or Authorized Signature _____

NORTHEAST DISTRICT DEPARTMENT OF HEALTH
69 South Main Street · Unit 4 · Brooklyn, CT 06234
Phone (860) 774-7350 · Fax (860) 774-1308 · Web Site www.nddh.org

December 06, 2022

Lori Pike
PO Box 932
Brooklyn, CT 06234

SUBJECT: FILE #22000150 -- ALLEN HILL ROAD, MAP #31, LOT #97C, BROOKLYN, CT

Dear Lori Pike:

Upon review of the subdivision plan (ARCHER SURVEYING, LLC., PROJ# 2046, PIKE, DRAWN 11/03/2022, REVISED 11/28/2022) submitted to this office on 12/1/2022 for the above referenced Subdivision, The Northeast District Department of Health concurs with the feasibility of this parcel of land for future development. Additionally, approval to construct individual subsurface sewage disposal systems may be granted based on compliance with appropriate regulations and the Technical Standards as they apply to individual building lots with the following notations:

1. Proposed lots are based on 4 bedroom homes at the locations tested. If the number of bedrooms are increased, septic system sizes will require an increase per the Technical Standards.
2. If the proposed septic area is moved, additional testing may be required.
3. Lot 97C-2 (proposed lot) approved.
4. Unable to approve vacant lot left after lot split as there is no soil testing data on Lot# 97C.

Be advised you must receive approval from the appropriate commissions in the Town of Brooklyn prior to construction of these lots.

This letter is NOT to be construed as an APPROVAL TO CONSTRUCT the septic system and DOES NOT indicate that the Northeast District Department of Health endorses approval for issuance of any building permit.

Should you have any questions, please feel free to contact the sanitarian that reviewed your plan.

Sincerely,

Donovan Moe

Donovan Moe, EHS
Environmental Health Specialist-NDDH

cc: Town of Brooklyn; Archer Surveying, LLC.

RECEIVED
NOV 21 2022
By

INLAND WETLANDS & WATERCOURSES COMMISSION
TOWN OF BROOKLYN, CONECTICUT

Date 11/21/22 **Application #** IWWC DR 22-005

APPLICATION -- INLAND WETLANDS & WATERCOURSES

APPLICANT PINEDALE FARMS LLP MAILING ADDRESS PO BOX 143, BROOKLYN, CT
APPLICANT'S INTEREST IN PROPERTY OWNER PHONE: CELL 8603823551 HOME: 8607748654
E-MAIL DUBOISFORESTRY@GMAIL.COM

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

ENGINEER/SURVEYOR (IF ANY) _____
ATTORNEY (IF ANY) _____

PROPERTY LOCATION/ADDRESS) _____

MAP # 41 LOT # 129 ZONE I TOTAL ACRES 138± ACRES OF WETLANDS ON PROPERTY UNKNOWN

PURPOSE AND DESCRIPTION OF THE ACTIVITY
A SILVICULTURAL THINNING TO CONCENTRATE THE GROWTH POTENTIAL OF THE SITE ONTO THE SUPERIOR QUALITY WHITE PINE CROP TREES BY REMOVING TREES WITH BLACK KNOT AND WHITE PINE WEEVIL DEFECT AND OAK TREES IN DECLINE DUE TO GYPSY MOTH DEFOLIATION.

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

EXPLAIN ALTERNATIVES CONSIDERED (REQUIRED):
_____
_____
_____

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

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 _____

OWNER: Donald A Dubois DATE 11/21/22

Check# 1670
$50

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

Connecticut Department of
ENERGY & ENVIRONMENTAL PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

GIS CODE #: ____ ____ ____ ____ ____
For DEEP Use Only

RECEIVED
NOV 21 2022

Statewide Inland Wetlands & Watercourses Activity Reporting Form

Please complete - print clearly - and mail this form in accordance with the instructions on pages 2 and 3 to:
Wetlands Management Section, Inland Water Resources Division, CT DEEP, 79 Elm Street – 3rd Floor, Hartford, CT 06106

PART I: To Be Completed By the Municipal Inland Wetlands Agency Only

1. DATE ACTION WAS TAKEN (enter one year and month): Year _____ Month _____
2. ACTION TAKEN (enter one code letter): _____
3. WAS A PUBLIC HEARING HELD (check one)? Yes _____ No _____
4. NAME OF AGENCY OFFICIAL VERIFYING AND COMPLETING THIS FORM:

   (type name) _____ (signature) _____

PART II: To Be Completed By the Municipal Inland Wetlands Agency or the Applicant

5. TOWN IN WHICH THE ACTION IS OCCURRING (type name): BROOKLYN

   Does this project cross municipal boundaries (check one)? Yes _____ No ✓

   If Yes, list the other town(s) in which the action is occurring (type name(s)): _____, _____
6. LOCATION (see directions for website information): USGS Quad Map Name: DANIELSON or Quad Number: _____

   Subregional Drainage Basin Number: _____
7. NAME OF APPLICANT, VIOLATOR OR PETITIONER (type name): PINEDALE FARMS LLC
8. NAME & ADDRESS/LOCATION OF PROJECT SITE (type information): FORTIN DRIVE, BROOKLYN

   Briefly describe the action/project/activity (check and type information): Temporary ✓ Permanent _____

   Description: SILVICULTURAL TREATMENT IN UPLANDS ON 20± ACRES
9. ACTIVITY *PURPOSE* CODE (enter one code letter): G
10. ACTIVITY *TYPE* CODE(S) (enter up to four code numbers): 14, _____, _____, _____
11. WETLAND / WATERCOURSE AREA ALTERED (type in acres or linear feet as indicated):

    Wetlands: _____ acres Open Water Body: _____ acres Stream: _____ linear feet
12. UPLAND AREA ALTERED (type in acres as indicated): _____ acres
13. AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (type in acres as indicated): 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

DR 22-005

RECEIVED
NOV 15 2022

NOTIFICATION OF TIMBER HARVEST

Town: BROOKLYN **Date:** 11/15/22
Property Location: FORTIN DRIVE

List all parcels:
Assessor's Info:

Map	Block	Lot
41	—	129

OR:

Unique ID

Total acreage of property(s): 140± **Total acreage of harvest area:** 20±

Landowner(s) of Record: PINEDALE FARMS LLC
Mailing Address: PO BOX 143
Town: BROOKLYN **Zip** 06234
Phone (860) 774-8654
E-mail: DUBOISFORESTRY@GMAIL.COM

Primary Contact: DONALD DUBOIS
Mailing Address: PO BOX 143
Town: BROOKLYN **Zip** 06234
Phone (860) 774-8654
E-mail: DUBOISFORESTRY@GMAIL.COM

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 #: F000135
Name: DONALD A. DUBOIS
Address: P.O. BOX 143 BROOKLYN CT 06234
E-mail: DUBOISFORESTRY@GMAIL.COM
Phone #: (Business) (860) 774-8654 (Cell) (860) 382-3551

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: 1/1/2023

Description of Timber Harvest:
Objective: INTERMEDIATE HARVEST TO PROMOTE THE GROWTH OF THE BETTER QUALITY WHITE ASHES AND TO STIMULATE NATURAL REGENERATION.
Treatment: THIS IS CALLED A SHELTERWOOD/REGENERATION THINNING IT IS A SILVICULTURAL OPERATION PERMITTED USE AS-OF-RIGHT ACTIVITY REQUIRING A SIMPLE JURISDICTIONAL RULING.

Amount of forest products to be harvested:
75,000 Board feet — 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.)

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

Describe in further detail as necessary:

TWO TEMPORARY STREAM CROSSINGS WILL BE REQUIRED THE FOREST PRODUCTS HARVESTER WILL INSTALL PORTABLE WOODEN BRIDGES AT BOTH LOCATIONS IN ORDER TO PROTECT WATER RESOURCES.

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): Donald A Dubois Date: 11/15/22

Print/Type Name: DONALD A. DUBOIS

Signature of Landowner(s): _____ Date: _____

Print/Type Name: _____

Signature of Certified Forest Practitioner: Donald A Dubois Date: 11/15/22

Print Name: DONALD A. DUBOIS

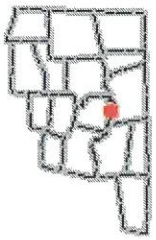
Certificate #: F000135 Expiration Date: 10/1/24

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.

neccog

Neccog GIS Site



Legend

- Town
- Buildings 2012
- Parcels

ASSESSOR'S MAP

1: 9,028

Notes

Enter Map Description

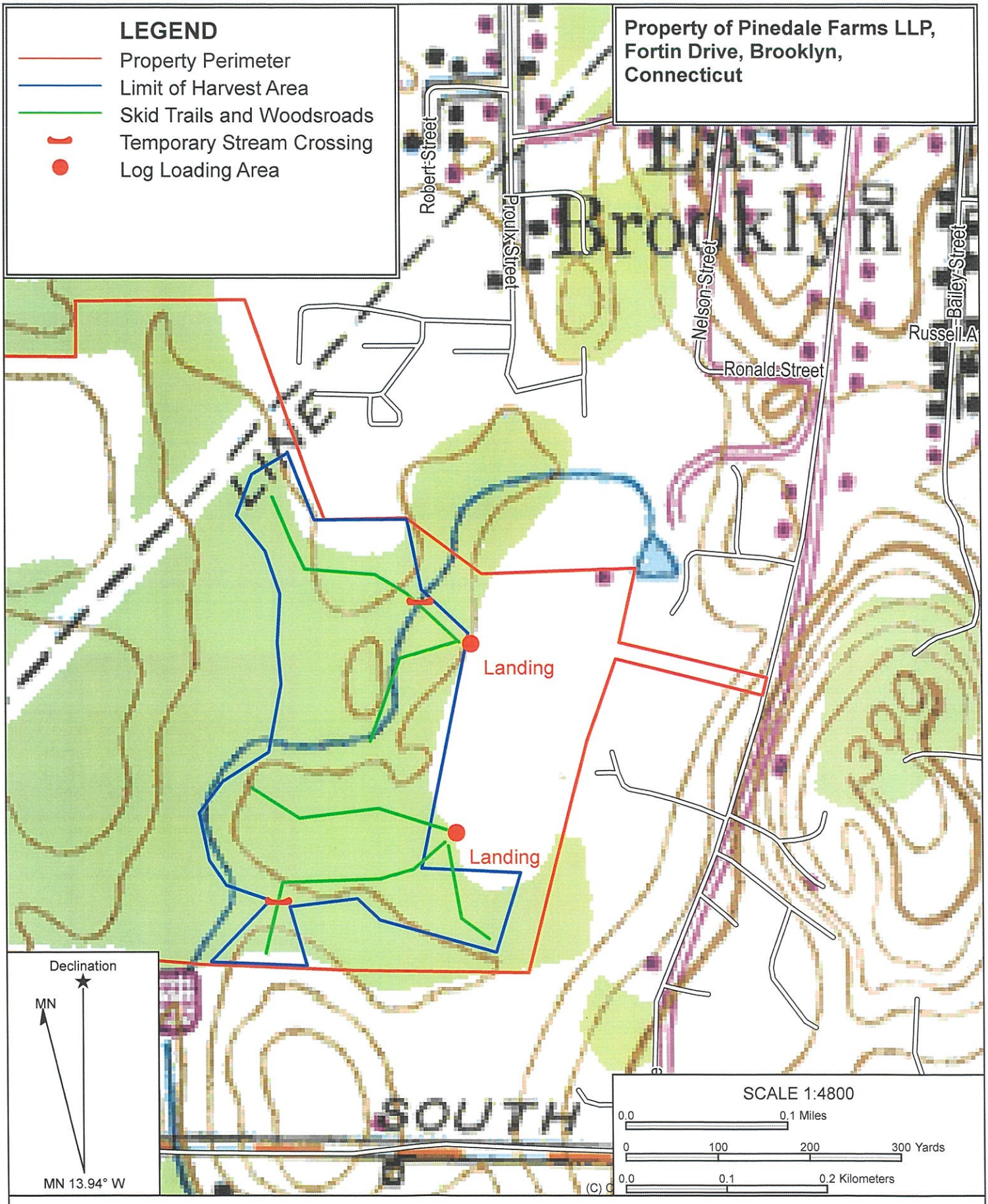
0.3 0 0.14 0.3 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

© Latitude Geographics Group Ltd.

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

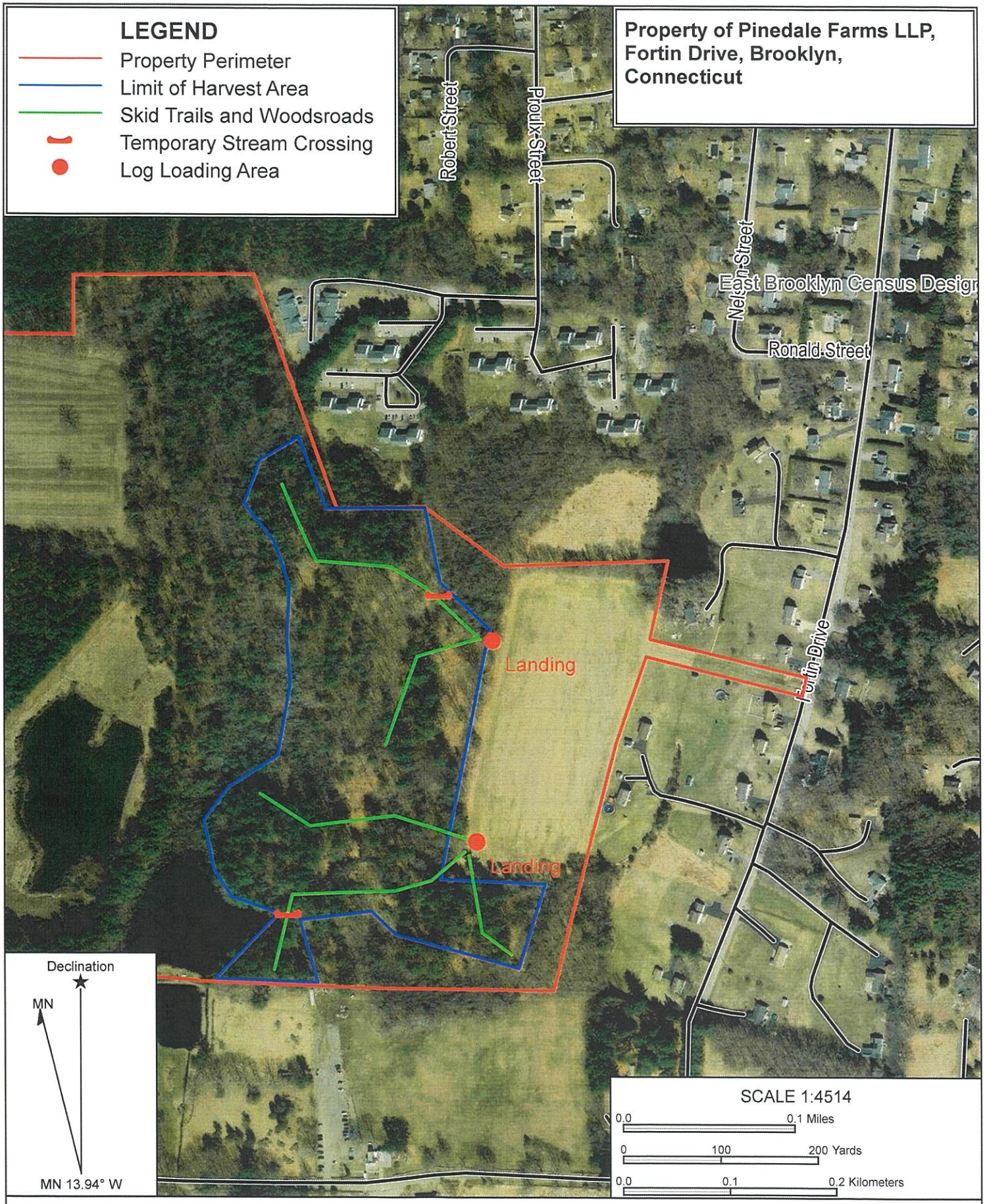


Name: DANIELSON
Date: 11/15/22
Scale: 1 inch = 400 ft.

Location: 041° 47' 31.8480" N, 071° 54' 07.5552" W

Harvest Area Outlined in Blue

(C) Copyright 2016, Trimble Navigation Limited



Name: Satellite Image
Date: 11/15/22
Scale: 1 inch = 376 ft.

Location: 041° 47' 31.6223" N, 071° 54' 08.5543" W

Harvest Area Outlined in Blue

(C) Copyright 2017, Mapbox

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

off Fortin Dr.
Map 41 Lot 129
Address

11/29/22
Date

I met Don Dubois, inspected and took photos.

We looked at both proposed stream crossings for a proposed Timber Harvest; DR 22-005.

There are no IWWC issues,

Recommend approval.

Commission Representative M. Washburn

Owner or Authorized Signature _____

TOWN OF BROOKLYN

Inland Wetlands Budget FY23

From Date: 11/1/2022 To Date: 11/30/2022

Fiscal Year: 2022 - 2023

Account Number	Description	Adj. Budget	Current	YTD	Balance	Encumbrance	Budget Bal	%Bud
1005.41.4163.51900	Inland Wetlands-Wages-Recording Secretary	$1,200.00	$75.00	$300.00	$900.00	$0.00	$900.00	75.00%
1005.41.4163.53020	Inland Wetlands-Legal Fees	$3,500.00	$0.00	$448.50	$3,051.50	$0.00	$3,051.50	87.19%
1005.41.4163.53200	Inland Wetlands-Professional Affiliations	$65.00	$0.00	$0.00	$65.00	$0.00	$65.00	100.00%
1005.41.4163.53400	Inland Wetlands-Professional Services	$500.00	$0.00	$0.00	$500.00	$0.00	$500.00	100.00%
1005.41.4163.55400	Inland Wetlands-Advertising & Legal Notices	$500.00	$821.02	$821.02	($321.02)	$0.00	($321.02)	-64.20%
1005.41.4163.55500	Inland Wetlands-Printing & Publications	$120.00	$0.00	$0.00	$120.00	$0.00	$120.00	100.00%
Grand Total:		**$5,885.00**	**$896.02**	**$1,569.52**	**$4,315.48**	**$0.00**	**$4,315.48**	**73.33%**

End of Report

The Brooklyn Inland Wetland and Watercourses Commission regular meeting schedule for 2023 will be held on the second Tuesday of the month at 6:00 p.m. in-person meeting at Clifford B. Green Memorial Center 69 South Main Street and via Zoom on the following dates:

January 10, 2023

February 14, 2023

March 14, 2023

April 11, 2023

May 9, 2023

June 13, 2023

July 11, 2023

August 8, 2023

September 12, 2023

October 10, 2023

November 14, 2023

December 12, 2023