



TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION

Monday, October 2, 2023

Regular Meeting – Hybrid
7:00 PM

Second Floor – Town Meeting Room
Killingly Town Hall
172 Main Street
Killingly, CT

AGENDA

The public can also view this meeting on Facebook Live.

Go to www.killinglyct.gov and click on Facebook Live at the bottom of the page.

- I. CALL TO ORDER
- II. ROLL CALL
- III. ADOPTION OF MINUTES – (Review/Discussion/Action)
 - A. September 11, 2023, Regular Meeting
 - B. September 25, 2023, Special Meeting (site walk)
- IV. CITIZENS' PARTICIPATION – Public comment can be emailed to publiccomment@killinglyct.gov or mailed to Town of Killingly, 172 Main Street, Killingly, CT 06239 on or before the meeting. All public comment received prior to the meeting will be posted on the Town's website www.killinglyct.gov.
- V. Unfinished Business: – (Review/Discussion/Action)
 - A. **Application 23-1572 of Brett & Paige Bissonnette** for the construction of a single-family home, driveway, well and septic within the 200' upland review area; 101 Mason Hill Road; Map ID 10016, Alt ID 52-5.1, Rural Development Zone.
 - B. **Application 23-1573 of Edward & Lynn Martins** for the construction of a single-family home, driveway, well and septic within the 200' upland review area; 34 No Frontage Rd; Map ID 7583, Alt ID 222-5.1, Rural Development Zone.
- V. **New Business:** (listed in order of receipt) – (Review/Discussion/Action)

If the application is complete the Commission shall decide if a public hearing and/or site walk should be held on each application and continue further action until next month's meeting. The Commission may also delegate to its duly authorized agent.

 - A. **Application 23-1574 of Pasay Development LLC** for a three-lot subdivision with the construction of three single-family homes with driveways, wells and septic within the 200' upland review area; 325 Snake Meadow Rd; Map ID 60, Alt ID 254-6, Rural Development Zone.
 - B. **Application 23-1575 of the Town of Killingly** for drainage improvements / maintenance on Yosemite Valley Road – jurisdictional ruling.
 - C. **Application 23-1576 of Margaret and Kevin Johnston** for the demolition and reconstruction of a single-family residence with driveway, existing well and public sewer

Elizabeth M. Quinn

RECEIVED
TOWN CLERK, KILLINGLY, CT
2023 SEP 29 PM 12:05

within the 200' upland review; 2 South Shore Road; Map ID 3721, Alt ID 87-37, ALZOD / Rural Development Zone.

VI. Correspondence to the Commission

VII. Staff Report

- A. Authorized Agent Applications
- B. Monthly Zoning/Wetlands Report
- C. Appointment of an additional Authorized Agent
 - 1. Allison Brady (Assistant Planner / Natural Resources Officer)

IX. Town Council Liaison

X. Adjournment

TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION (IWWC)

Killingly Town Hall
172 Main Street
Killingly CT
MINUTES

Regular Meeting

Monday, September 11, 2023 – 7:00 pm

2023 SEP 20 PM 2:06

Eggers

I. Call to Order: Chairperson Eggers called the meeting to order at 7:00 p.m.

II. Roll Call:

Members Present: Chairman Sandy Eggers, Vice Chairman Rodney Galton, Chris McDonald
Member Absent: Paul Archer, Secretary Corina Torrey (with notification)
Also Present: Jonathan Blake, Town Planner/Zoning Enforcement Officer

III. Adoption of Minutes:

MOTION 1 made by Rodney Galton **SECONDED BY** Chris McDonald that the Inland Wetlands and Watercourses Commission approve August 7, 2023 Meeting Minutes – as presented
VOICE VOTE: UNANIMOUS; MOTION CARRIED

IV. Citizens' Participation: none

V. Unfinished Business:

A. Application #23-1569, Canterbury Holdings, LLC, construction of 32 residential units (16 duplexes) within 200' upland review area; 25 Colonial Drive; Map ID 9937, Alt ID 113-29.6; Low Density Zone

APPLICANT/PRESENTATION: Bob Deluca, CLA Engineers, was present to represent the applicant. Bob Russo, CLA Soil Scientist, previously submitted site review letter, dated August 8, 2023, indicating investigations conducted September of 2022 found no inland wetland or watercourses are present on site.

TOWN STAFF: Jonathan Blake noted this application was previously presented as authorized agent. Due to drainage questions at the previous IWWC meeting, application was tabled to this meeting for clarification. Additionally, Killingly Engineering department submitted site review letter this evening. Applicant has read the letter. IWWC members reviewed the letter in detail and noted their previous concerns regarding storm water basin design in upland review have been addressed by the Engineering Department.

MOTION 2 made by Rodney Galton **SECONDED BY** Chris McDonald that the Inland Wetland and Watercourses Commission approve **Application #23-1569, Canterbury Holdings, LLC.** – as presented
VOICE VOTE: UNANIMOUS; MOTION CARRIED

VI. New Business:

A. Application #22-1571, Michael Shabenas, construction of single-family home with public water and on-site septic within 200' of upland review area; 254 Wheatley Street; Map ID 7385, Alt ID 159-116.1; Medium Density Zone

TOWN STAFF: Jonathan Blake noted septic system as newly proposed is acceptable. Modifications have been made to design. This is a small 2-bedroom house with slab on grade – therefore avoiding deeper excavation. Public water will be used. Activities are

proposed in upland review only. It was noted NDDH has modified approval process by asking for local Town approval prior to rendering their decision. IWWC decisions are pending NDDH final approval.

MOTION 3 made by Rodney Galton **SECONDED BY** Chris McDonald that the Inland Wetland and Watercourses Commission delegate its duly authorized agent to act on **Application #23-1571, Michael Shabenas** – as presented

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

- B. Application #23-1572, Brett & Paige Bissonnette** for construction of a single-family home, driveway, well and septic within 200' of upland review area; 101 Mason Hill Road; Map ID 10016, Alt ID 52-5.1, Rural Development Zone

TOWN STAFF: Jonathan Blake noted there is no frontage for this property as it is a rear lot. Drainage improvements are necessary at entrance on northeast side of driveway which abuts wetlands. Proposed design attempts to skirt wetlands. Septic system includes reserve area within 100' area of wetlands due to ledge crop.

MOTION 4 made by Rodney Galton **SECONDED BY** Chris McDonald that the Inland Wetland and Watercourses Commission receive **Application #23-1572, Brett & Paige Bissonnette** with no public hearing and a site walk scheduled for September 25, 2023 at 5:00pm

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

- C. Application #22-1573, Edward & Lynn Martins**, construction of single-family home, driveway, well and septic within 200' upland review area; 34 North Frontage Road; Map ID 7583, Alt ID 222-5.1, Rural Development Zone

TOWN STAFF: Jonathan Blake noted this application was previously approved as part of Phase 3 of previous subdivision. Previous application expired. Application has a shared driveway. Actual address is 34 North Frontage Road. Septic system and well designs depict activity within 100'.

MOTION 5 made by Chris McDonald **SECONDED BY** Rodney Galton that the Inland Wetland and Watercourses Commission table **Application #23-1573, Edward & Lynn Martins** with no public hearing or site walk

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

VII. Correspondence to the Commission: none

VIII. Staff Reports: None

IX. Town Council Liaison: Jason Anderson was present to discuss various Town items.

X. Adjournment

MOTION 6 made by Rodney Galton **SECONDED BY** Chris McDonald that the Inland Wetland and Watercourses Commission adjourn meeting at 7:37 pm

VOICE VOTE: UNANIMOUS;

MOTION CARRIED

Respectfully submitted
Sherry Pollard
IWWC Recording Secretary



TOWN OF KILLINGLY
INLAND WETLANDS AND WATERCOURSES COMMISSION

Monday, September 25, 2023

Special Meeting – Site Walk
5:00 PM

Meeting at
101 Mason Hill Road
Killingly, CT 06241

Minutes

Eggers, m. Quisenberry
2023 SEP 26 AM 9:13
TOWN OF KILLINGLY, CT

I. CALL TO ORDER

Chairperson Eggers called the site walk meeting to order at 4:58 PM.

II. ROLL CALL

Members Present: Paul Archer, Chairperson Sandy Eggers, Vice Chair Rodney Galton

Members Absent with Notification: Secretary Corina Torrey, Chris MacDonald.

Also Present: Jonathan Blake (Planner/ZEO). Greg Glaude (Killingly Engineering Associates, Representing Applicant)

III. SITE WALK:

A. Application 23-1572 of Brett & Paige Bissonnette for the construction of a single-family home, driveway, well and septic within the 200' upland review area; 101 Mason Hill Road; Map ID 10016, Alt ID 52-5.1, Rural Development Zone.

As a group those present walked up the proposed driveway and reviewed the flagged wetlands. The members also looked at the proposed location of the house and septic location. During the site walk members pointed out an existing corrugated pipe (between Wetlands Flag 19 & 20). The pipe appears to cross under the driveway from the flagged wetlands. Said pipe appeared blocked or damaged. It was asked that more information be submitted regarding this pipe.

IV. ADJOURNMENT

Adjourned at 5:09 PM, motion by Mr. Galton, Second by Mr. Archer – Passes 3-0.



Town of Killingly

Engineering Department
172 Main Street, Killingly, CT 06239
Phone 860-779-5360 Fax 860-779-5326

MEMORANDUM

TO: Normand Thibeault, P.E., Killingly Engineering Associates & Greg Glaude, L.S., Killingly Engineering Associates

FROM: David Capacchione, Town Engineer; Gary Martin, Assistant Town Engineer

DATE: October 2, 2023

RE: 101 Mason Hill Road - Killingly, Ct

CC: Ann Marie Aubrey Director of Planning and Development, Jill St Clair, Director Economic Development, Jonathan Blake, Planner I, & Zoning Enforcement Officer; file

The Town Engineering department has received the following information for the subject project at our office through October 2, 2023:

Item 1:

Set of three (3) drawing(s) entitled "IMPROVEMENT LOCATION SURVEY DRIVEWAY DESIGN PLAN": prepared for Brett Bissonnette & Paige Bissonnette 101 Mason Hill Road Killingly, Connecticut and dated 09/01/23; prepared by Killingly Engineering Associates, 114 Westcott Road, Killingly, Ct 06241.

We have reviewed the item(s) listed above and have the following comments pursuant to the Inland Wetland & Planning and Zoning Commissions:

Comments:

1. There is an existing 15-inch CMP shown on the plans. Field investigations indicate this pipe is blocked. The condition of the pipe is unknown. The pipe will need to be repaired / replaced and resume functioning normally.
2. Sheet # 2 shows a gravel rectangle below wetland flags 8A & 9A. I am not sure of the intended use of this area, but it spans two property lines. Please review and provide an easement if appropriate.

3. All easements & rights of way will need to be recorded on the Killingly Land records.

Please contact the Town of Killingly Engineering Office at (860) 779-5360 if you have any questions or need additional information. We will be happy to meet with you to discuss the above-mentioned project.

Killingly Engineering Associates

Civil Engineering & Surveying



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

September 6, 2023

Proposed Residential Development

Brett & Paige Bissonnette
Mason Hill Road
Killingly, CT

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:

\$100.00 (base fee)
\$ 60.00 (State fee)
\$160.00 Total Fee

2. 3- full sized sets of plans & 1- 11 x 17 reduction set– Dated: 9/01/2023
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Soil Scientist Report
7. Web Soil Survey Map
8. GIS mapping

RECEIVED

SEP 06 2023

PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

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

Application #: 23-1572
 Date Submitted: 9/6/23
 Date of Receipt by Comm.: _____
 Fee: 160 - pd ck - 144 9/6/23
 Staff Initials: SG

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

A \$100.00 base fee (or, for a proposed subdivision, \$100.00 per lot, whichever is greater) ~~plus~~ \$40.00 state fee must accompany each application **(Total fee: \$160.00)**. **THIS FEE IS NON-REFUNDABLE.** Checks or money orders should be made payable to the Town of Killingly. **Public hearing fee: \$225.00** required in addition to the above fees if a public hearing is required by the commission(s) and not already included.

TO BE COMPLETED BY THE APPLICANT -- PLEASE PRINT

Applicant's Name: BRAFF & PAIGR BISSONNETTE
 Day Phone #: 860-336-6163 Evening Phone #: 860-336-6163
 Mailing Address: 450 Bailey Hill Road, Killingly, CT 06241
 Owner of Record: Samuel
 Mailing Address: _____

RECEIVED
 Phone #: _____
 SEP 06 2023

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

Authorization of property owner: _____
 PLANNING & ZONING DEPT.
 TOWN OF KILLINGLY

LOCATION OF PROPERTY:

House # and Street: 101 Mason Hill Road
 Tax Map Number: 52 Block: _____ Lot: 5.1
 Zoning District: RD Lot Size: 4.59 AC Lot Frontage: 50' Access R.O.W.
 Easements and/or deed restrictions: 50' Access EASEMENT

PURPOSE:

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

CONSTRUCTION OF A SINGLE FAMILY HOME WITH ACTIVITIES IN THE UPLAND REVIEW FOR HOUSE, DRIVEWAY & SEPTIC INSTALLATION

ON-SITE WETLANDS AND WATERCOURSES:

Windham County wetland soil types and areas of each type:

SUTTON FINE SANDY LOAMS & CANTON & CHARLTON SOILS

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

NO WETLANDS ARE ON THE SUBJECT PROPERTY. ALL REGULATED ACTIVITIES ARE ADJACENT TO WETLANDS ON THE ADJUTING PROPERTY

ALTERNATIVES:

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

NO WETLAND ALTERATION IS PROPOSED

MATERIALS:

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

NO MATERIALS WILL BE DEPOSITED IN THE WETLANDS

MITIGATIVE MEASURES:

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

SILT FENCE

BIOLOGICAL EVALUATION:

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

NO IMPACTS TO THE WETLANDS ARE ANTICIPATED

SITE PLAN*:

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

- Contours
- Buildings
- Wells
- Driveways
- Septic Systems
- Drainage Systems (Including Culverts, Footing and Curtain Drains)
- Erosion and Sedimentation controls
- Wetlands
- Watercourses
- Areas of Excavation and /or Material Deposit

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

ADDITIONAL INFORMATION:

List additional information submitted by the applicant:

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

Applicant's Signature: Paige R Bissamette Date: _____

Owner of Record: Paige R Bissamette Date: _____



Statewide Inland Wetlands & Watercourses Activity Reporting Form

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

PART I: Must Be Completed By The Inland Wetlands Agency

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

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

- TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Killingly
does this project cross municipal boundaries (check one)? yes no
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
- LOCATION (see instructions for information): USGS quad name: East Killingly or number: 44
subregional drainage basin number: _____
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Brett Bissonette
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 101 Mason Hill Road
briefly describe the action/project/activity (check and print information): temporary permanent description: Proposed Construction of a Residential Home
- ACTIVITY PURPOSE CODE (see instructions - one code only): A
- ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14
- WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: _____ acres open water body: _____ acres stream: _____ linear feet
- UPLAND AREA ALTERED (must provide acres): _____ acres
- 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



JOSEPH R. THEROUX

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

8/18/23

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

RE: WETLAND DELINEATION, HITCHEW PROPERTY, 99 MASON HILL RD.
KILLINGLY, CT.

DEAR MR. GLAUDE,

AT YOUR REQUEST I HAVE DELINEATED THE INLAND WETLANDS ON THE SUBJECT PROPERTY.

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

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

FLAG NUMBERS WF-1 THROUGH WF-43 DELINEATE THE BOUNDARY OF A PALUSTRINE FORESTED WETLAND FOUND IN THE NORTHERN PORTION OF THE PROPERTY IN A LARGE DEPRESSED AREA.

WHEN FULLY INUNDATED THIS AREA SHEET FLOWS DOWNSLOPE TO THE WEST ALONG THE EXISTING GRAVEL DRIVEWAY AND INTO A CULVERT PIPE ADJACENT TO MASON HILL ROAD.

IT SHOULD BE NOTED THAT THIS AREA WAS USED HISTORICALLY AS A DUMP FOR HOUSEHOLD GARBAGE, AS EVIDENCED BY LARGE QUANTITIES OF OLD BOTTLES, CANS ETC.

FLAG NUMBERS WF-1A THROUGH WF-15A DELINEATE A SIMILAR FORESTED WETLAND JUST TO THE SOUTH, ALONG THE EDGE OF THE EXISTING HAY FIELD.

BOTH OF THESE WETLANDS MAY HAVE BEEN CONTIGUOUS AT ONE POINT, BUT DUE TO THE HISTORIC FILLING AND GRADING ACTIVITIES ASSOCIATED WITH THE DUMPING, THEY ARE NOW SEPARATE.

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

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

IT SHOULD BE NOTED THAT I FOUND A SHALLOW DEPRESSED AREA UPSLOPE TO THE EAST OF THE "A" SERIES WETLAND, WHERE THE PERCHED WATER TABLES ARE TRAPPED AND SEASONALLY INUNDATE FOR SHORT PERIODS OF TIME. THIS SHALLOW INUNDATION IS EVIDENCED BY EXPOSED ROOTS AND WATERMARKS IN THE BASE OF THE TREES AND SHRUBS. ONCE FULLY INUNDATED, (A FEW INCHES IN DEPTH), SURFACE FLOWS SHEET FLOW DOWNSLOPE TO THE WEST INTO THE "A" SERIES WETLAND.

NO HYDRIC SOILS WERE FOUND WITHIN THIS AREA, NOR ANY SHALLOW OXIDIZED RHIZOSPHERES, (PORE LININGS), INDICATING THAT THE AREA REMAINS INUNDATED FOR ANY SIGNIFICANT PERIODS OF TIME.

I INSPECTED THE REMAINDER OF THE PROPERTY AND FOUND NO OTHER INLAND WETLANDS OR WATERCOURSES.

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

THANK YOU,

Joseph R. Theroux

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

Soil Map—State of Connecticut



Soil Map may not be valid at this scale.

Map Scale: 1:4,310 if printed on A landscape (11" x 8.5") sheet.

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



Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: State of Connecticut
 Survey Area Data: Version 22, Sep 12, 2022

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

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

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

MAP LEGEND

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	2.8	3.7%
52C	Sutton fine sandy loam, 2 to 15 percent slopes, extremely stony	8.4	11.0%
60B	Canton and Charlton fine sandy loams, 3 to 8 percent slopes	0.5	0.7%
62C	Canton and Charlton fine sandy loams, 3 to 15 percent slopes, extremely stony	7.5	9.8%
73C	Charlton-Chatfield complex, 0 to 15 percent slopes, very rocky	50.4	65.8%
73E	Charlton-Chatfield complex, 15 to 45 percent slopes, very rocky	2.2	2.9%
75C	Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes	4.7	6.1%
75E	Hollis-Chatfield-Rock outcrop complex, 15 to 45 percent slopes	0.0	0.0%
Totals for Area of Interest		76.6	100.0%

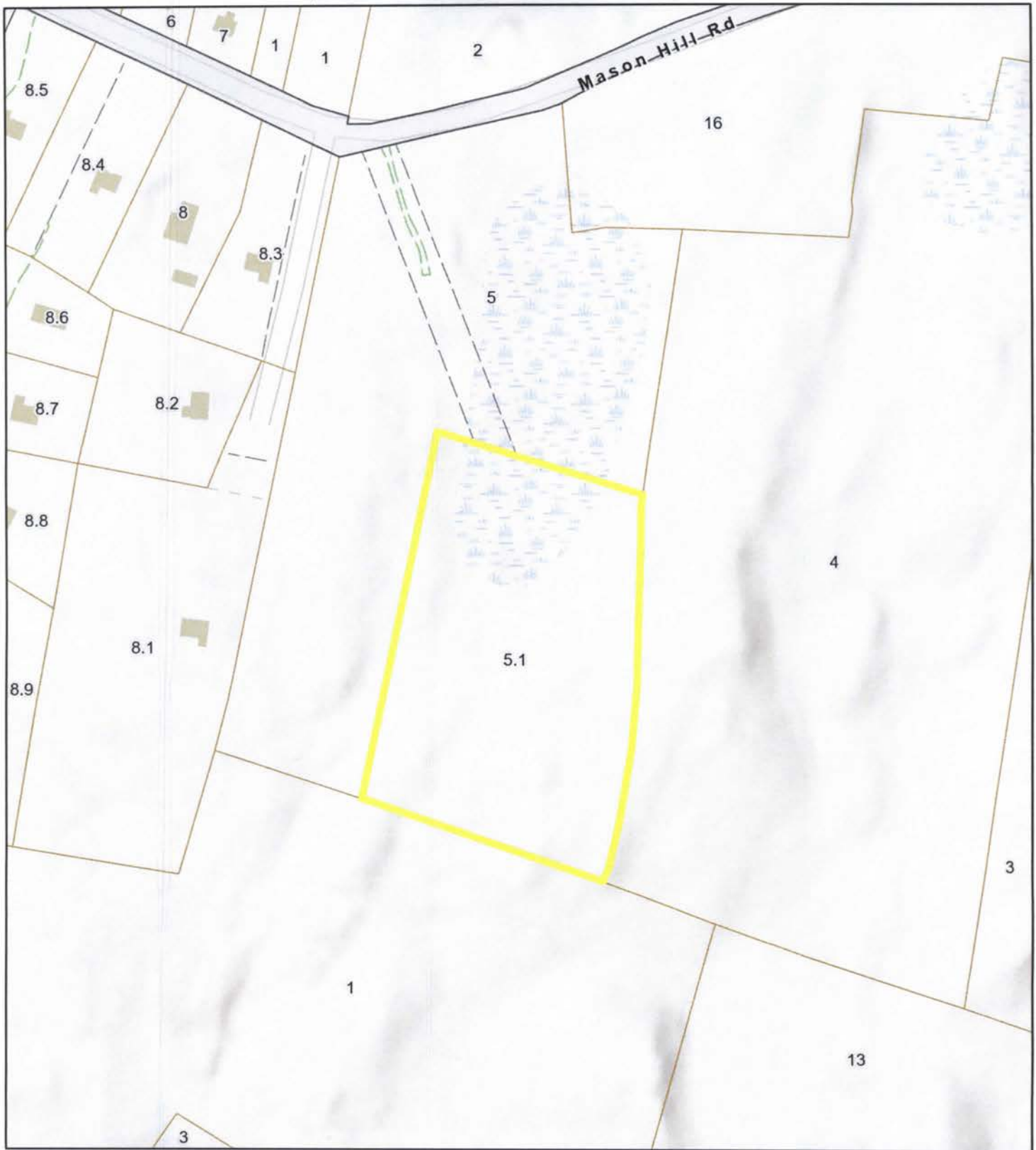


Town of Killingly, CT
 1 inch = 200 Feet

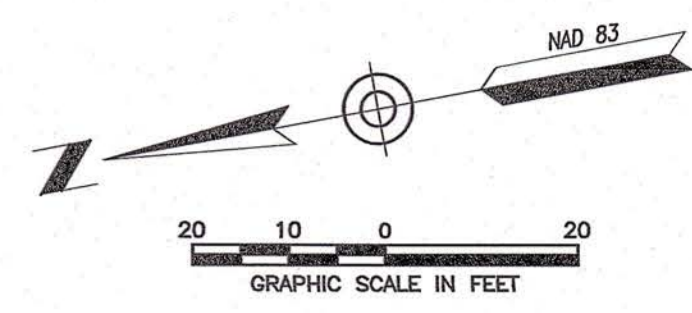


www.cai-tech.com

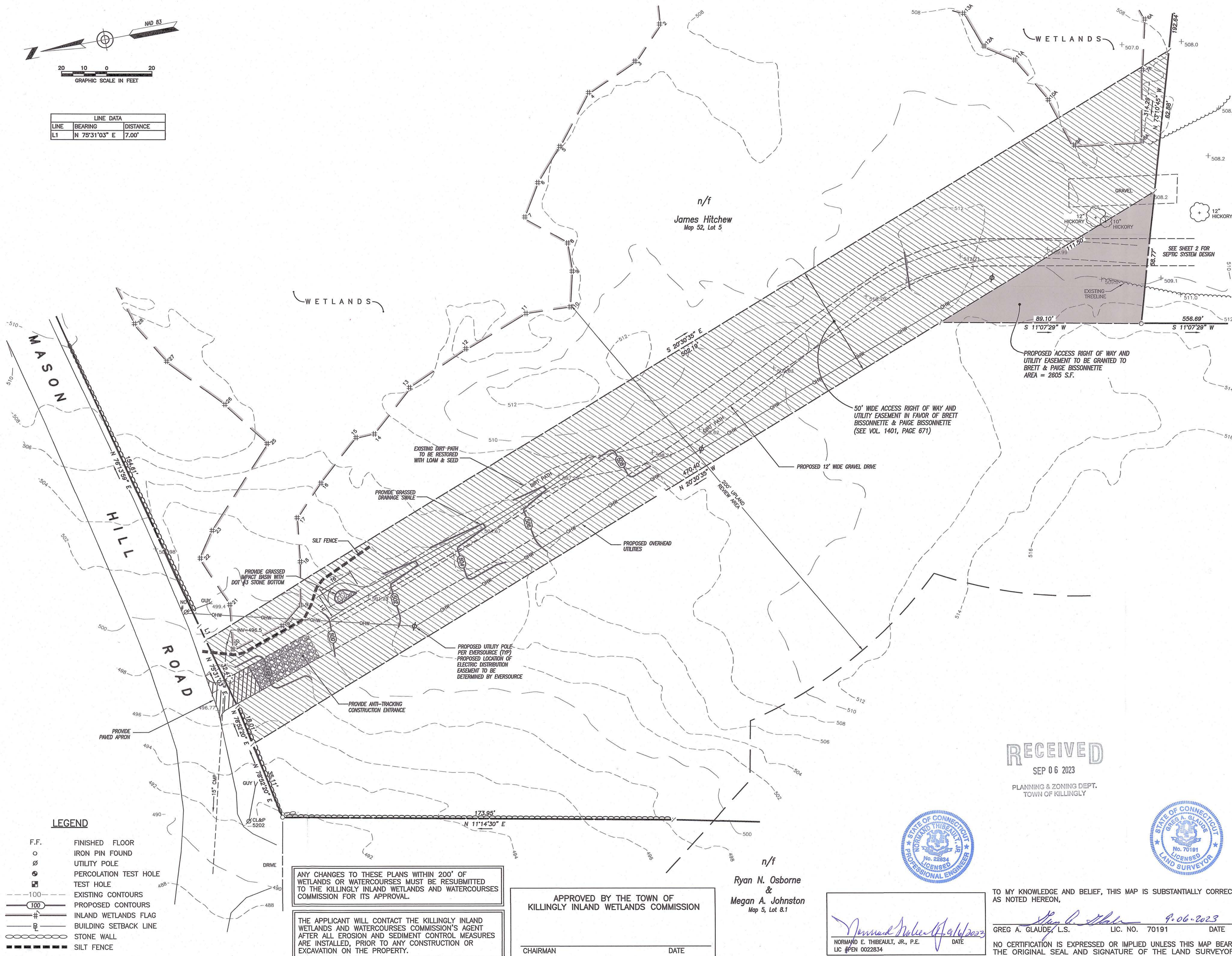
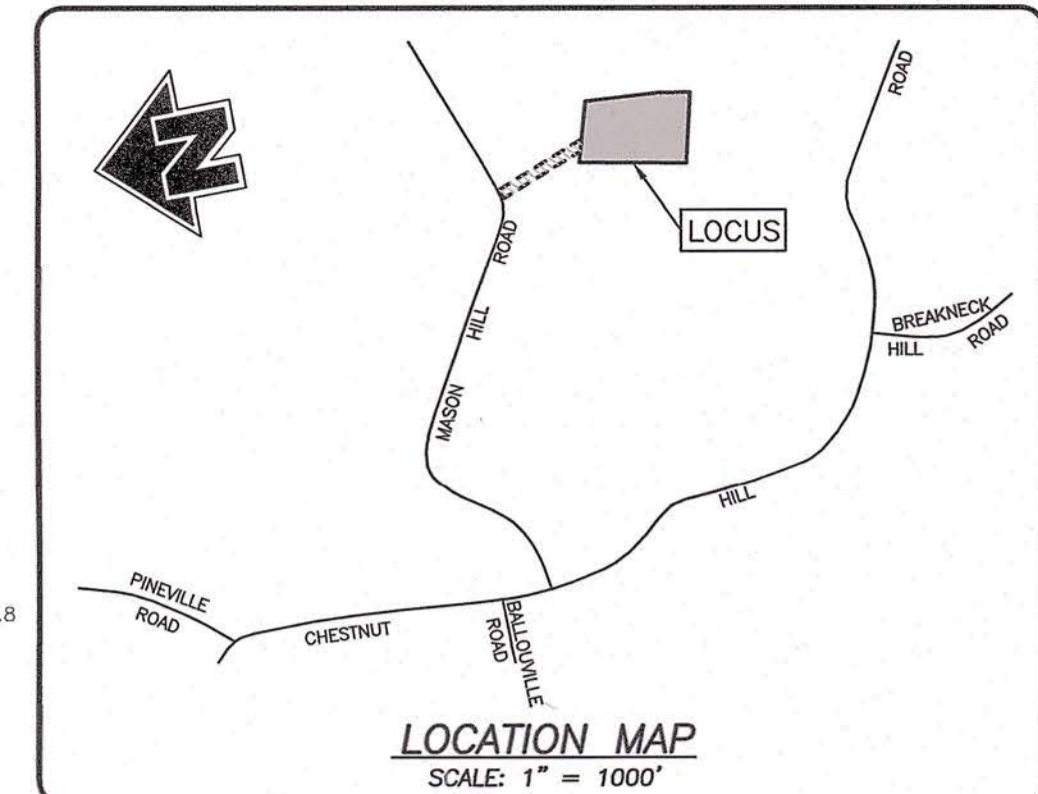
September 5, 2023



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



LINE DATA		
LINE	BEARING	DISTANCE
L1	N 75°31'03" E	7.00'



- NOTES:**
- This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Resurvey
 - Zone = RD.
 - Owner of record: Brett & Paige Bissonnette
458 Bailey Hill Road, Killingly, CT 06241
See Volume 1401, Page 671
 - Parcel is shown as Lot #5.1 on Assessors Map #52.
 - Parcel lies within Flood Hazard Zone 'C' (areas of minimal flooding) as shown on FIRM Map # 090136 Panel 0008B Effective Date: 1/3/1985.
 - Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
 - Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, 8/18/2023.
 - North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
 - Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

- MAP REFERENCE:**
- "Boundary Survey - First Time Split" - Prepared for: James & Kathryn Hitchew - 99 Mason Hill Road - Killingly, Connecticut - Scale: 1" = 50' Date: March 28, 2022 - Prepared by: Archer Surveying, LLC". on file in the Killingly Land Records as Map #7331.

DATE	DESCRIPTION

IMPROVEMENT LOCATION SURVEY
DRIVEWAY DESIGN PLAN
PREPARED FOR
BRETT BISSONNETTE & PAIGE BISSONNETTE
101 MASON HILL ROAD
KILLINGLY, CONNECTICUT

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

DATE: 9/01/2023	DRAWN: RGS
SCALE: 1" = 20'	DESIGN: NET
SHEET: 1 OF 3	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23090

- LEGEND**
- F.F. FINISHED FLOOR
 - IRON PIN FOUND
 - UTILITY POLE
 - PERCOLATION TEST HOLE
 - TEST HOLE
 - 100 --- EXISTING CONTOURS
 - 100 --- PROPOSED CONTOURS
 - INLAND WETLANDS FLAG
 - BUILDING SETBACK LINE
 - STONE WALL
 - SILT FENCE

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL.

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

APPROVED BY THE TOWN OF KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN _____ DATE _____

Ryan N. Osborne & Megan A. Johnston
Map 5, Lot 8.1



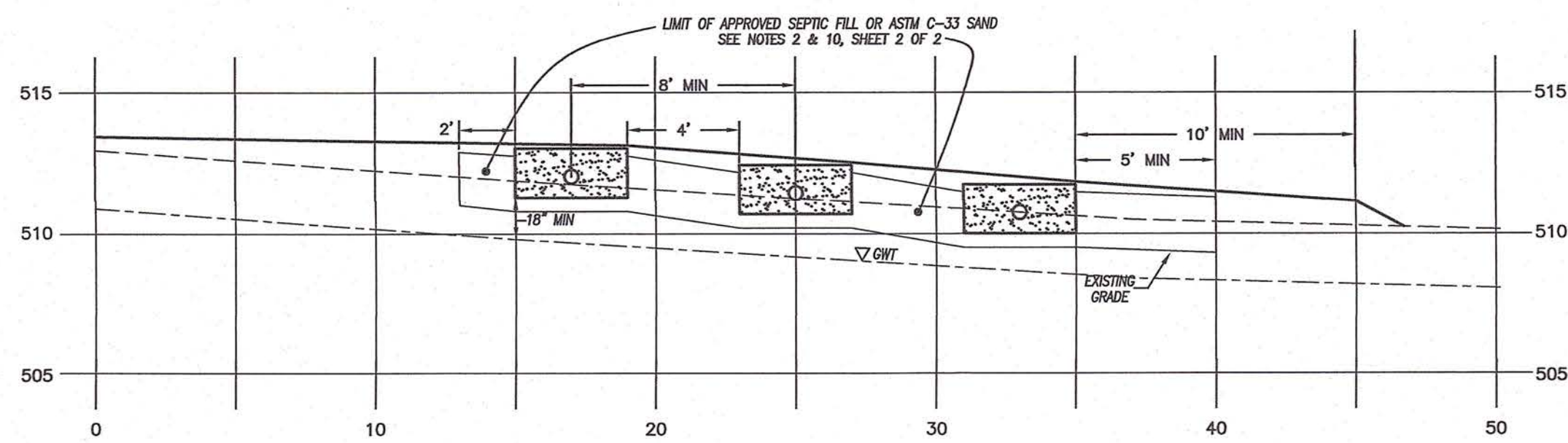
RECEIVED
SEP 06 2023
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

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

Greg A. Glaude 9-06-2023
GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE

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

K:\23090\Drawings\23090_01_DRIVEWAY DESIGN.dwg Sep 05, 2023 - 2:00 PM



CROSS SECTION "A-A"
SCALE: 1" = 5'

PERCOLATION TEST RESULT - November 22, 2022
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

PERC A
Depth = 22"
Presoak 1 hour
Rate = 5.3 min./in.

Time	Reading
10:07	1.5"
10:13	3.5"
10:22	6"
10:30	7.5"
10:40	9.375"
10:45	dry

TEST HOLE DATA - November 22, 2022
NORTHEAST DISTRICT DEPARTMENT OF HEALTH

TEST PIT	DEPTH	PROFILE
1	0"-5" 5"-18" 18"-27" 27"-72"	Topsail/organics Brown loamy sand Tan sandy loam Grey compact pan, some large rocks
2	0"-5" 5"-21" 21"-28" 28"-84"	Topsail/organics Brown loamy sand Tan sandy loam Grey compact pan, faint mottles
3	0"-4" 4"-28" 28"-72"	Topsail/organics Brown loamy sand Grey compact pan, faint mottles

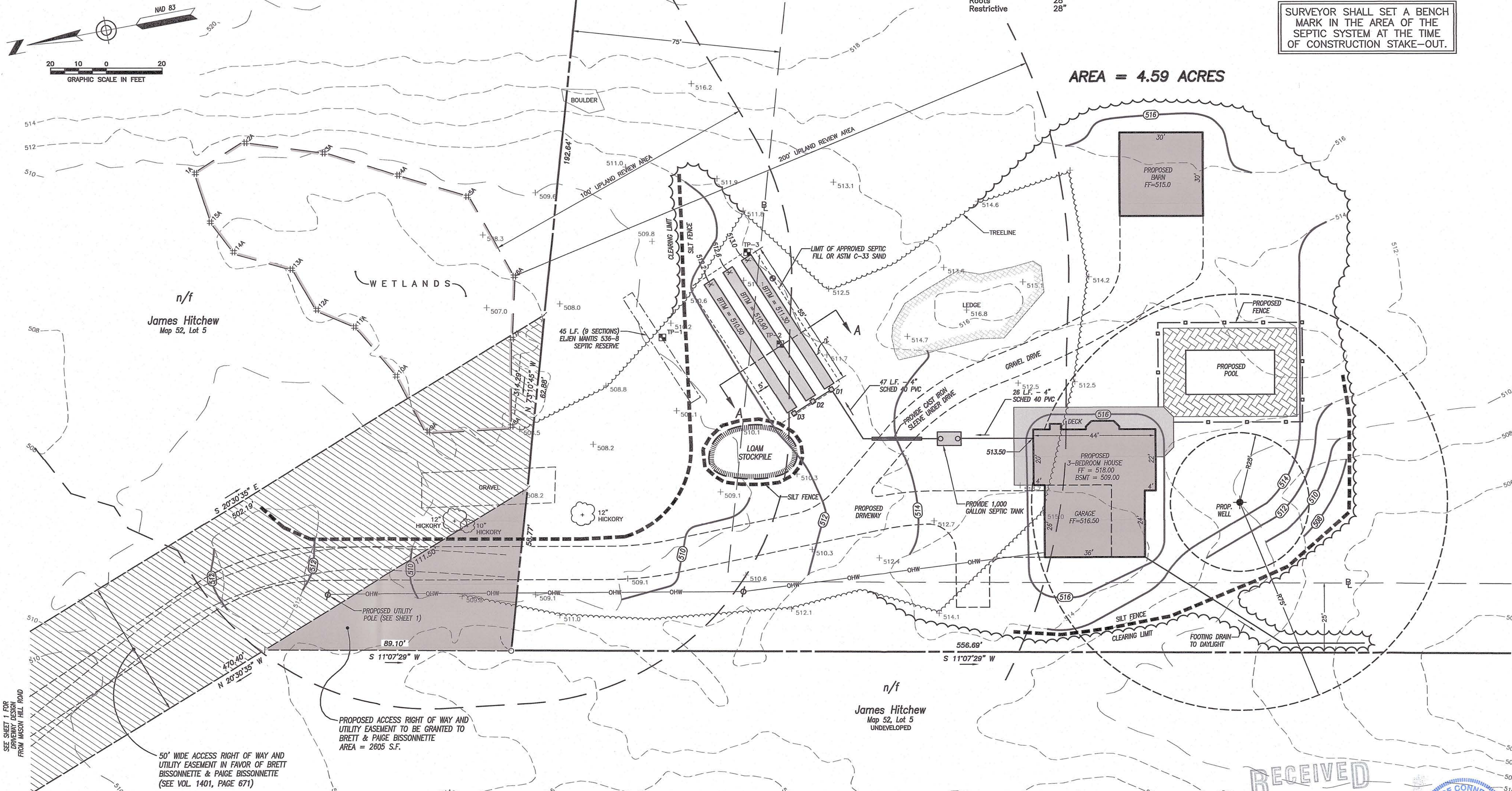
SEPTIC SYSTEM DESIGN DATA

Percolation Rate	= 5.3 min. / in.
3 bedroom house requires	= 495 s.f. effective leaching area
Effective Leaching area	= 3 s.f. / l.f. of trench
Length Required	= 495/3 = 165 l.f.
Length Provided	= 3 (55') = 165 l.f.
Min. Leaching System Spread (MLSS)	= 30 x 1.5 x 1.0 = 45'
MLSS Provided	= 55'
LEACHING FIELD	
3 Trenches @ 55 l.f. each	
Maximum depth into existing grade	= 9"

SEPTIC TANK	
1000 GALLON	
TWO COMPARTMENT	
F/L IN = 512.85	
F/L OUT = 512.80	
DISTRIBUTION BOXES	
D-1 (OVERFLOW)	
F/L IN = 511.07	
F/L OUT = 511.90	
OVERFLOW = 512.15	
D-2 (OVERFLOW)	
F/L IN = 511.57	
F/L OUT = 511.40	
OVERFLOW = 511.65	
D-3 (STANDARD)	
F/L IN = 511.07	
F/L OUT = 511.00	

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

AREA = 4.59 ACRES



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 28, 1996, Amended October 26, 2018;
 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Field surveyed topographic features conform to a Class "T-2", "V-2" vertical accuracy.
 - LIDAR topographic features conform to a Class "T-D" vertical accuracy.
 - Survey Type: Improvement Location Survey.
 - Boundary Determination Category: Resurvey
- Zone = RD.
- Owner of record: Brett & Paige Bissonnette
458 Bailey Hill Road, Killingly, CT 06241
See Volume 1401, Page 671
- Parcel is shown as Lot #5.1 on Assessors Map #52.
- Parcel lies within Flood Hazard Zone 'C' (areas of minimal flooding) as shown on FIRM Map # 090136 Panel 0008B Effective Date: 1/3/1985.
- Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, 8/18/2023.
- North orientation, bearings and coordinate values shown are based on North American Datum of 1983 (NAD 83) and are taken from GPS observations using the "Superior" statewide GPS network and RTK correction system.
- Before any construction is to commence contact "CALL BEFORE YOU DIG" at 1-800-922-4455 or 811.

MAP REFERENCE:

- "Boundary Survey - 'First Time Split'" - Prepared for: James & Kathryn Hitchew - 99 Mason Hill Road - Killingly, Connecticut - Scale: 1" = 50' Date: March 28, 2022 - Prepared by: Archer Surveying, LLC". on file in the Killingly Land Records as Map #7331.

DATE	DESCRIPTION
	REVISIONS

IMPROVEMENT LOCATION SURVEY
SEPTIC SYSTEM DESIGN PLAN

PREPARED FOR
**BRETT BISSONNETTE &
PAIGE BISSONNETTE**

101 MASON HILL ROAD
KILLINGLY, CONNECTICUT

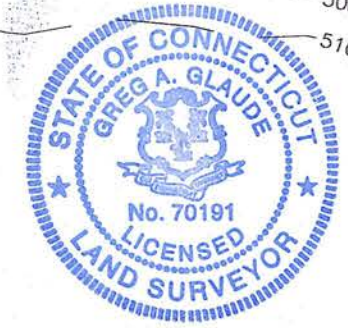
Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 9/01/2023	DRAWN: RGS
SCALE: 1" = 20'	DESIGN: NET
SHEET: 2 OF 3	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23090

RECEIVED
SEP 06 2023
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY



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

Brett Bissonnette 9-06-2023
GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE

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

ANY CHANGES TO THESE PLANS WITHIN 200' OF WETLANDS OR WATERCOURSES MUST BE RESUBMITTED TO THE KILLINGLY INLAND WETLANDS AND WATERCOURSES COMMISSION FOR ITS APPROVAL.

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

APPROVED BY THE TOWN OF
KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE

LEGEND

F.F.	FINISHED FLOOR
o	IRON PIN FOUND
o	UTILITY POLE
o	PERCOLATION TEST HOLE
o	TEST HOLE
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
#	INLAND WETLANDS FLAG
---	BUILDING SETBACK LINE
---	STONE WALL
---	SILT FENCE

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

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

KEEP LAND DISTURBANCE TO A MINIMUM

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

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

SLOW THE FLOW

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

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

KEEP CLEAN RUNOFF SEPARATED

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

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

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

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

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

SEPTIC SYSTEM CONSTRUCTION NOTES

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

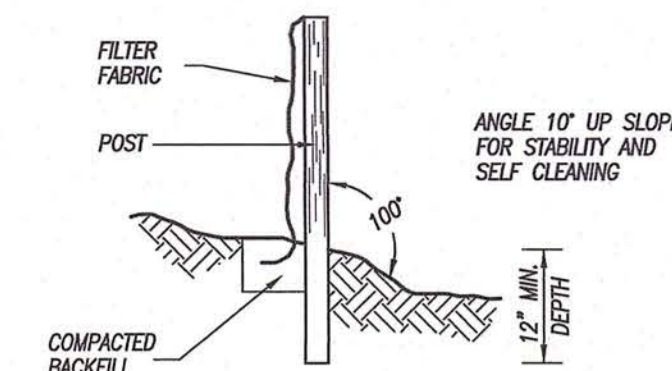
GRADATION OF FILL (MINUS GRAVEL)

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 five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at a maximum slope of 2H:1V.

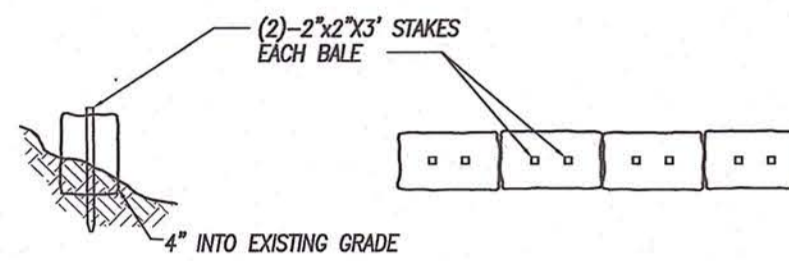
- Septic tank shall be two compartment precast 1000 gallon tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 4 hole precast concrete as manufactured by Jolley Precast, Inc. or equal.
- All precast structures such as septic tanks,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

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



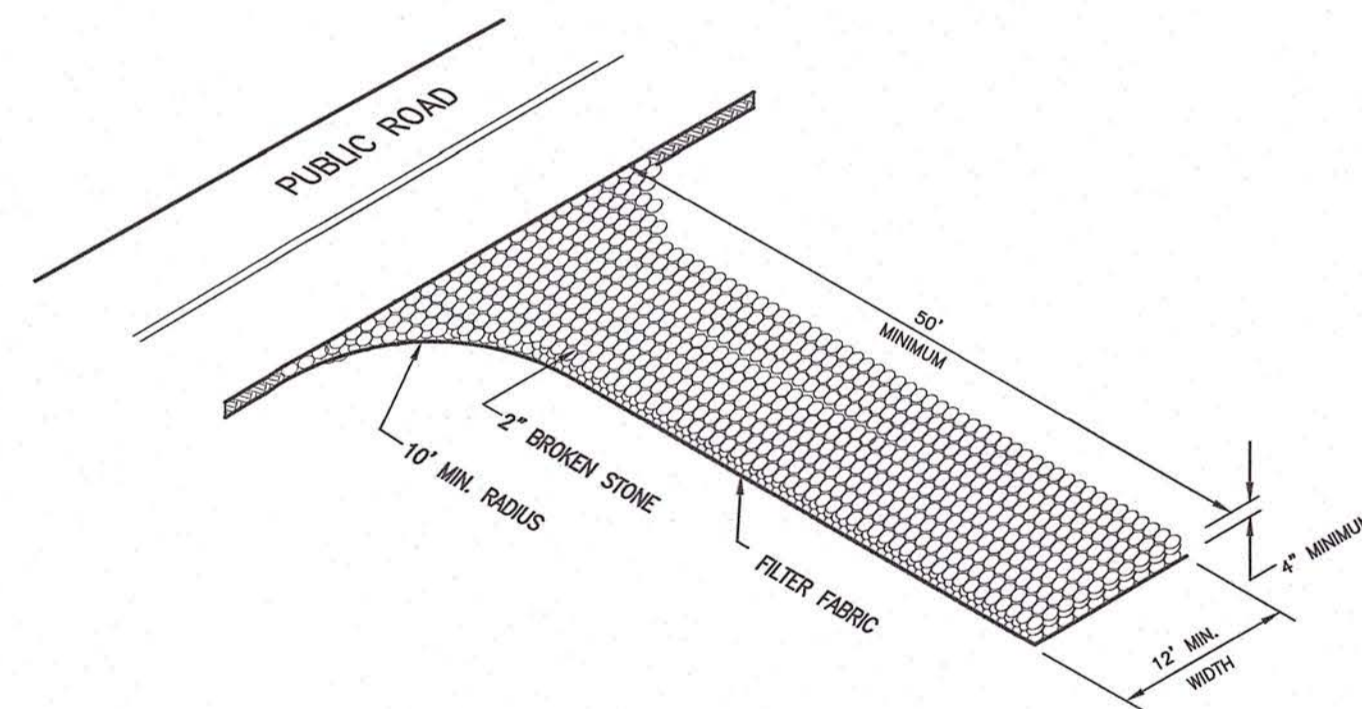
SILT FENCE

NOT TO SCALE



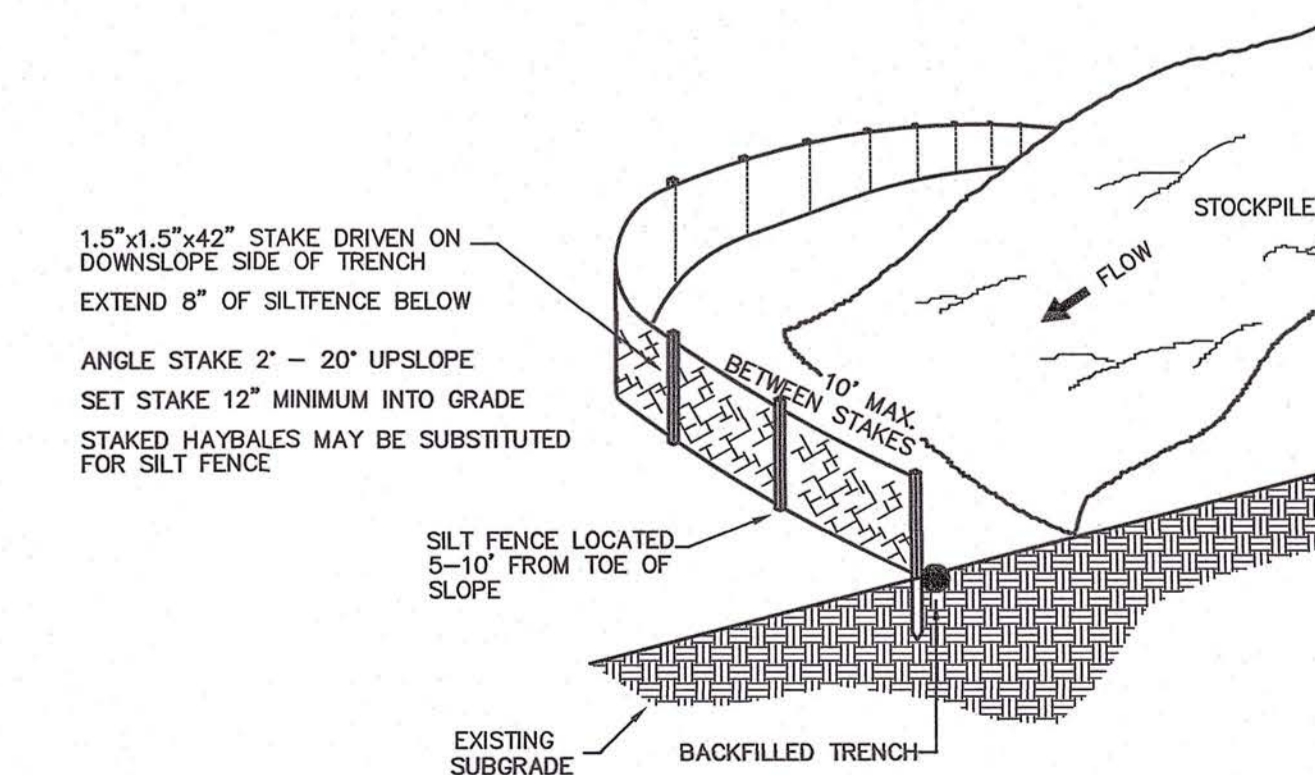
HAYBALE BARRIER

NOT TO SCALE



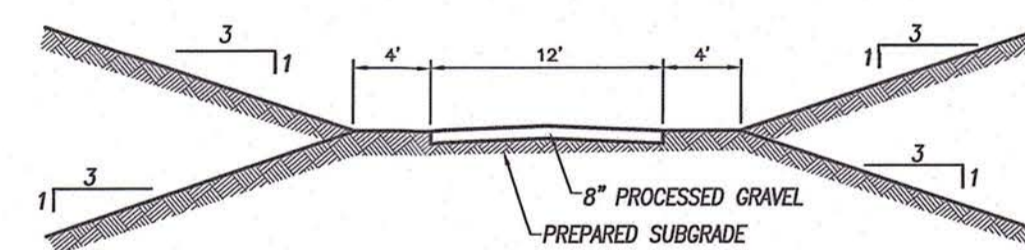
ANTI-TRACKING PAD

NOT TO SCALE



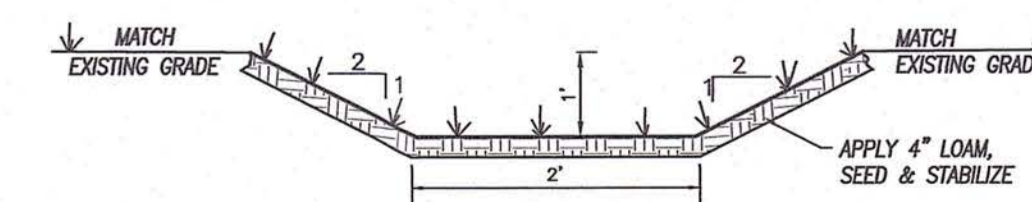
SILT FENCE @ TOE OF SLOPE APPLICATION

NOT TO SCALE



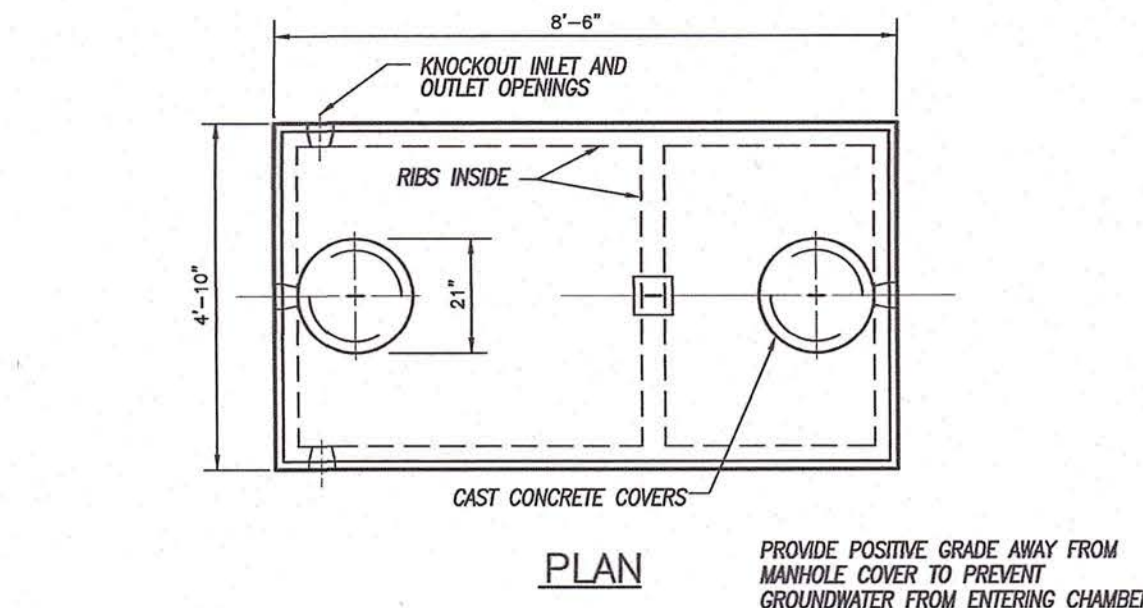
GRAVEL DRIVE DETAIL

NOT TO SCALE

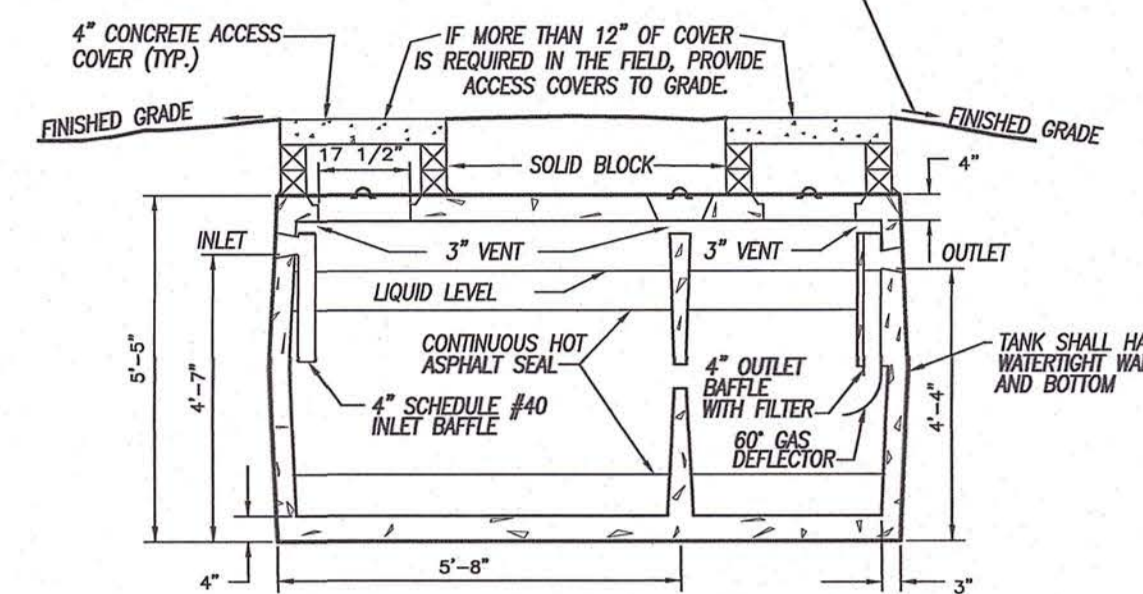


GRASS LINED SWALE

NOT TO SCALE



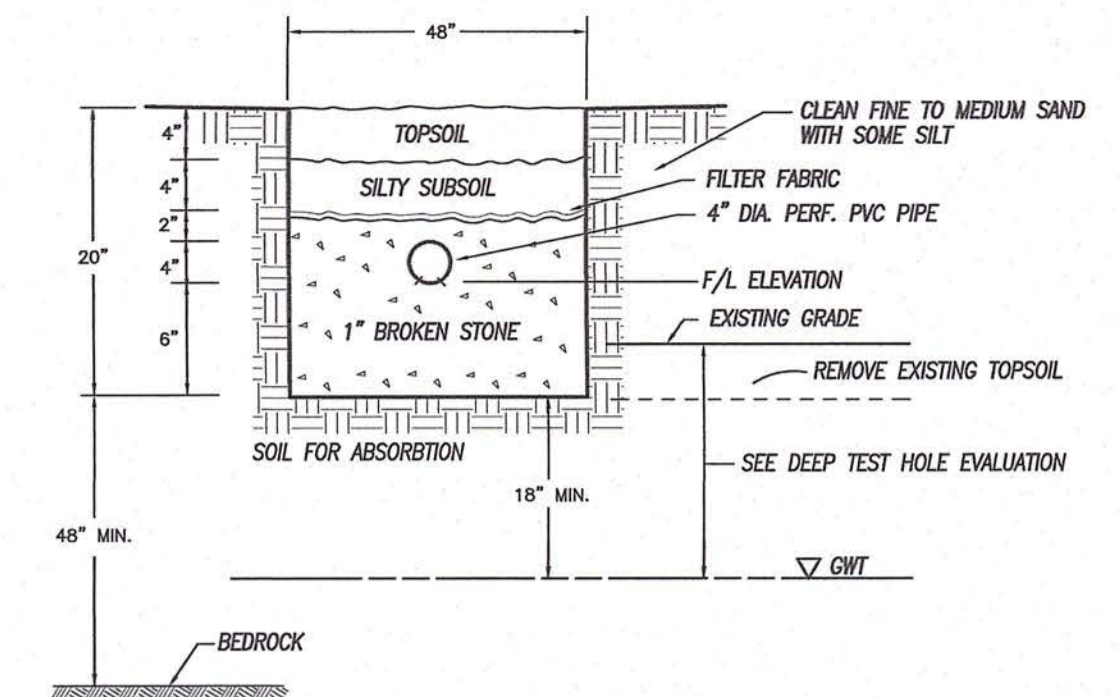
PLAN



CROSS SECTION

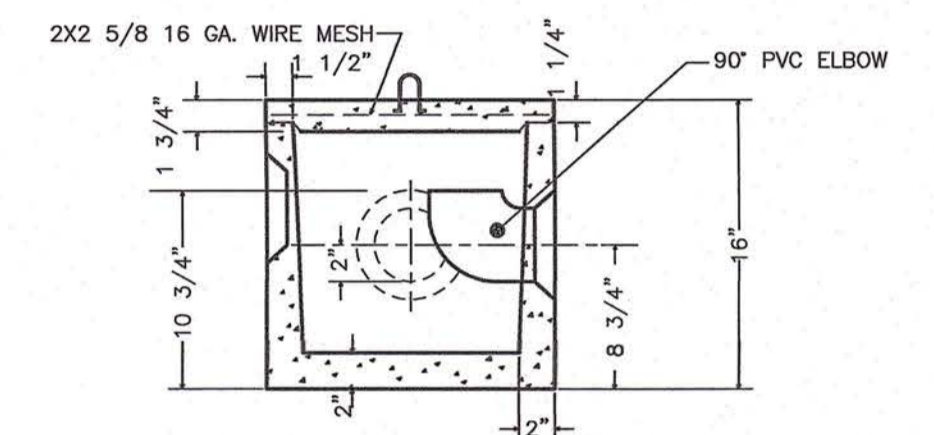
1000 GALLON 2 COMPARTMENT SEPTIC TANK

NOT TO SCALE



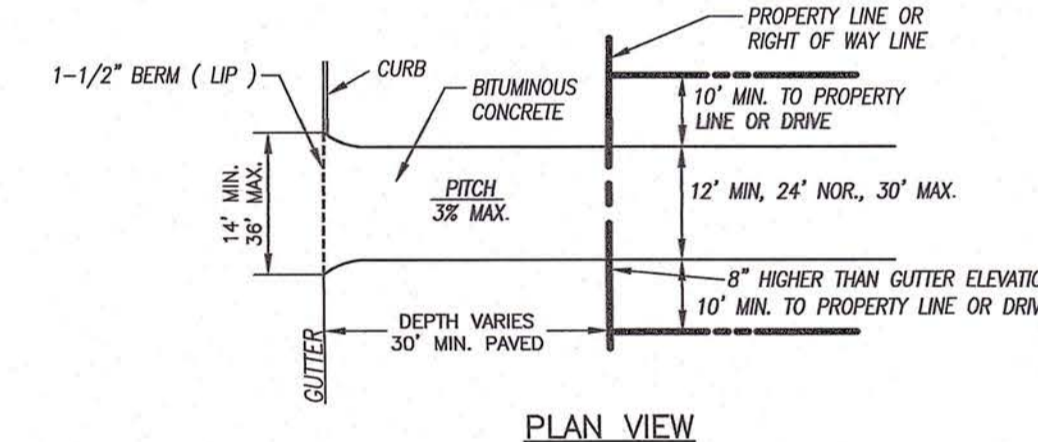
TYPICAL LEACHING TRENCH SECTION

NOT TO SCALE

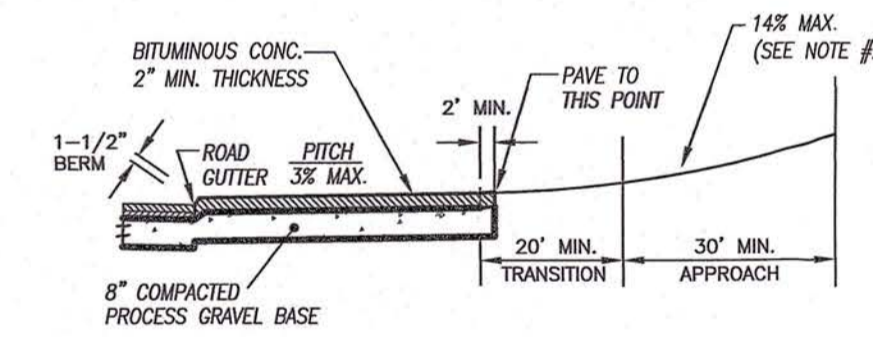


OVERFLOW D-BOX

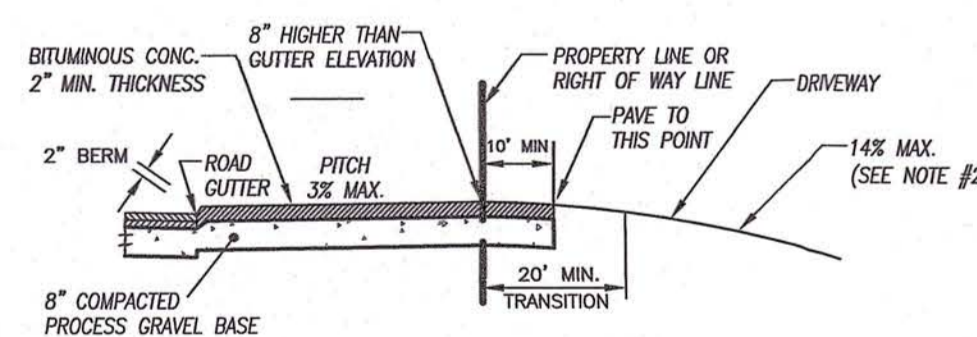
NOT TO SCALE



PLAN VIEW



LAND ABOVE ROAD (SECTION)



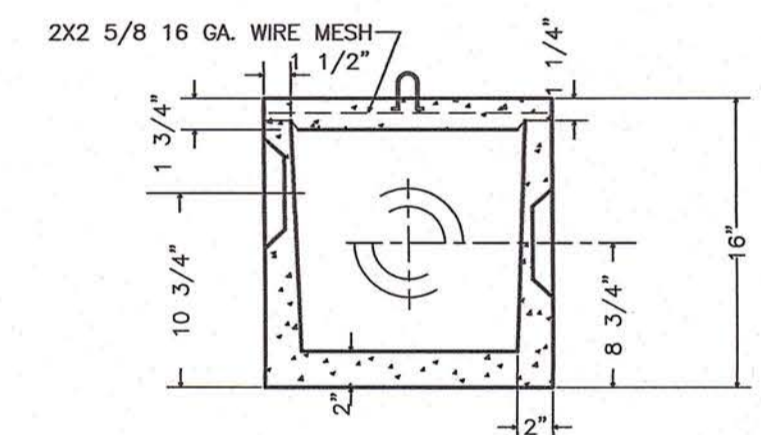
LAND BELOW ROAD (SECTION)

1. THE ABOVE DETAIL IS ILLUSTRATIVE ONLY AND DOES NOT APPLY TO EVERY SITUATION. REVIEW YOUR DRIVEWAY PERMIT FOR YOUR SPECIFIC REQUIREMENTS.
2. DRIVEWAYS IN EXCESS OF 10% GRADE, AND ALL COMMON (SHARED) DRIVEWAYS SHALL BE PAVED WITH BITUMINOUS CONCRETE.

STANDARD DRIVE DETAIL

NOT TO SCALE

RECEIVED
SEP 06 2023
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY



STANDARD D-BOX

NOT TO SCALE

DATE	DESCRIPTION

DETAIL SHEET

PREPARED FOR

BRETT BISSONNETTE & PAIGE BISSONNETTE

101 MASON HILL ROAD
KILLINGLY, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 9/01/2023	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 3 OF 3	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 23090



Approved Return 9/6/2023
NORMAND THIBEAULT, JR., P.E. No. 22834 DATE



Town of Killingly

Engineering Department
172 Main Street, Killingly, CT 06239
Phone 860-779-5360 Fax 860-779-5326

MEMORANDUM

TO: Normand Thibeault, P.E., Killingly Engineering Associates & Greg Glaude, L.S., Killingly Engineering Associates

FROM: David Capacchione, Town Engineer; Gary Martin, Assistant Town Engineer

DATE: October 2, 2023

RE: 34 North Frontage Road - Killingly, Ct

CC: Ann Marie Aubrey Director of Planning and Development, Jill St Clair, Director Economic Development, Jonathan Blake, Planner I, & Zoning Enforcement Officer; file

The Town Engineering department has received the following information for the subject project at our office through October 2, 2023:

Item 1:

Set of two (2) drawing(s) entitled "IMPROVEMENT LOCATION SURVEY SEPTIC SYSTEM DESIGN PLAN – LOT 5-1": prepared for Edward S. Martins & Lynn V. Martins, 34 North Frontage Road Killingly, Connecticut and dated 07/28/23; prepared by Killingly Engineering Associates, 114 Westcott Road, Killingly, Ct 06241.

We have reviewed the item(s) listed above and have the following comments pursuant to the Inland Wetland & Planning and Zoning Commissions:

Comments:

1. Please show the driveway access to North Frontage Road.
2. The common portion of the driveway needs to be 16 feet wide.
3. All easements & rights of way will need to be recorded on the Killingly Land records.

Please contact the Town of Killingly Engineering Office at (860) 779-5360 if you have any questions or need additional information. We will be happy to meet with you to discuss the above-mentioned project.

Killingly Engineering Associates

Civil Engineering & Surveying



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

September 6, 2023

Proposed Residential Development

Edward & Lynn Martins
34 North Frontage Road
Killingly, CT

RECEIVED

SEP 06 2023

PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

APPLICATION PACKAGE CONTENTS – Inland Wetlands

1. Application fee:

\$100.00 (base fee)

\$ 60.00 (State fee)

\$160.00 Total Fee

2. 3- full sized sets of plans & 1- 11 x 17 reduction set– Dated: 7/28/2023
3. Inland Wetlands Application
4. List of adjacent land owners including across the street
5. DEEP Reporting Form
6. Web Soil Survey Map
7. GIS mapping

RECEIVED

Property within 500' of adjoining Town boundary? _____
If so, which town(s)? _____
Date the notice was sent by KTWWC to town clerk of adjoining municipality(ies) _____
Receipt date of copy of Applicants notice to adjoining municipality _____
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

Application #: 23-1573
Date Submitted: 9/6/2023
Date of Receipt by Comm.: _____
Fee: 160 pd ck 11391 9/6/23
Staff Initials: SG

KILLINGLY INLAND WETLANDS & WATERCOURSES COMMISSION APPLICATION

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

TO BE COMPLETED BY THE APPLICANT - PLEASE PRINT

Applicant's Name: EDWARD & LYNN MARTINS
Day Phone #: _____ Evening Phone #: 401-241-1763
Mailing Address: 620 STARBUCK FARM ROAD HARRISVILLE, RI 02830
Owner of Record: SAME
Mailing Address: _____ Phone #: _____

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

Authorization of property owner: _____

LOCATION OF PROPERTY:

House # and Street: 34 NORTH FRONTAGE ROAD
Tax Map Number: 222 Block: _____ Lot: 5.1
Zoning District: RD Lot Size: 5.21 AC Lot Frontage: _____
Easements and/or deed restrictions: ACCESS EASEMENT FOR LOT 5-2

PURPOSE:

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

CONSTRUCTION OF A SINGLE-FAMILY HOME WITH ACTIVITY WITHIN THE 200' UPLAND REVIEW AREA

ON-SITE WETLANDS AND WATERCOURSES:

Windham County wetland soil types and areas of each type:

SITTON FINE SANDY LOAM - WETLANDS

CANTON & CHARLTON - UPLANDS

WOODBROOK

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

NO WATERCOURSES

ALTERNATIVES:

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

NO ALTERATION OF WETLANDS IS PROPOSED

MATERIALS:

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

NO DEPOSITION OF MATERIALS WITHIN THE WETLANDS

MITIGATIVE MEASURES:

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

SILT FENCE

BIOLOGICAL EVALUATION:

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

WETLANDS ON SITE FUNCTION PRIMARILY AS GROUNDWATER RECHARGE/DISCHARGE. NO IMPACTS TO THESE FUNCTIONS IS ANTICIPATED

SITE PLAN*:

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

Contours

Buildings

Wells

Driveways

Septic Systems

Drainage Systems (Including Culverts, Footing and Curtain Drains)

Erosion and Sedimentation controls

Wetlands

Watercourses

Areas of Excavation and /or Material Deposit

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

ADDITIONAL INFORMATION:

List additional information submitted by the applicant:

WAB Soil Survey

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

Applicant's Signature: Ed Moe Date: 9/6/2023
Owner of Record: Ed Moe Date: 9/6/2023



0.1 feet Abutters List Report

Killingly, CT
September 06, 2023

Subject Property:

Parcel Number: 222-005-001
CAMA Number: 222-005-001-000 7583
Property Address: 34 NO FRONTAGE RD

Mailing Address: MARTINS LYNN V & EDWARD S
620 STEERE FARM RD
HARRISVILLE, RI 02830

Abutters:

Parcel Number: 222-005-000
CAMA Number: 222-005-000-000 2916
Property Address: 36 NO FRONTAGE RD

Mailing Address: BALCHER JOSEPH R III & HEATHER G
36 NO FRONTAGE RD
KILLINGLY, CT 062393809

Parcel Number: 222-005-002
CAMA Number: 222-005-002-000 7584
Property Address: 30 NO FRONTAGE RD

Mailing Address: BARNETT NEIL & KRISTIE
30 N FRONTAGE RD
KILLINGLY, CT 06239

Parcel Number: 222-006-000
CAMA Number: 222-006-000-000 2796
Property Address: 50 NO FRONTAGE RD

Mailing Address: GIOVANNI MAURICE L & M MEGAN
50 NO FRONTAGE RD
KILLINGLY, CT 06241



www.cai-tech.com

9/6/2023

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

Page 1 of 1



Martins - 34 N Frontage

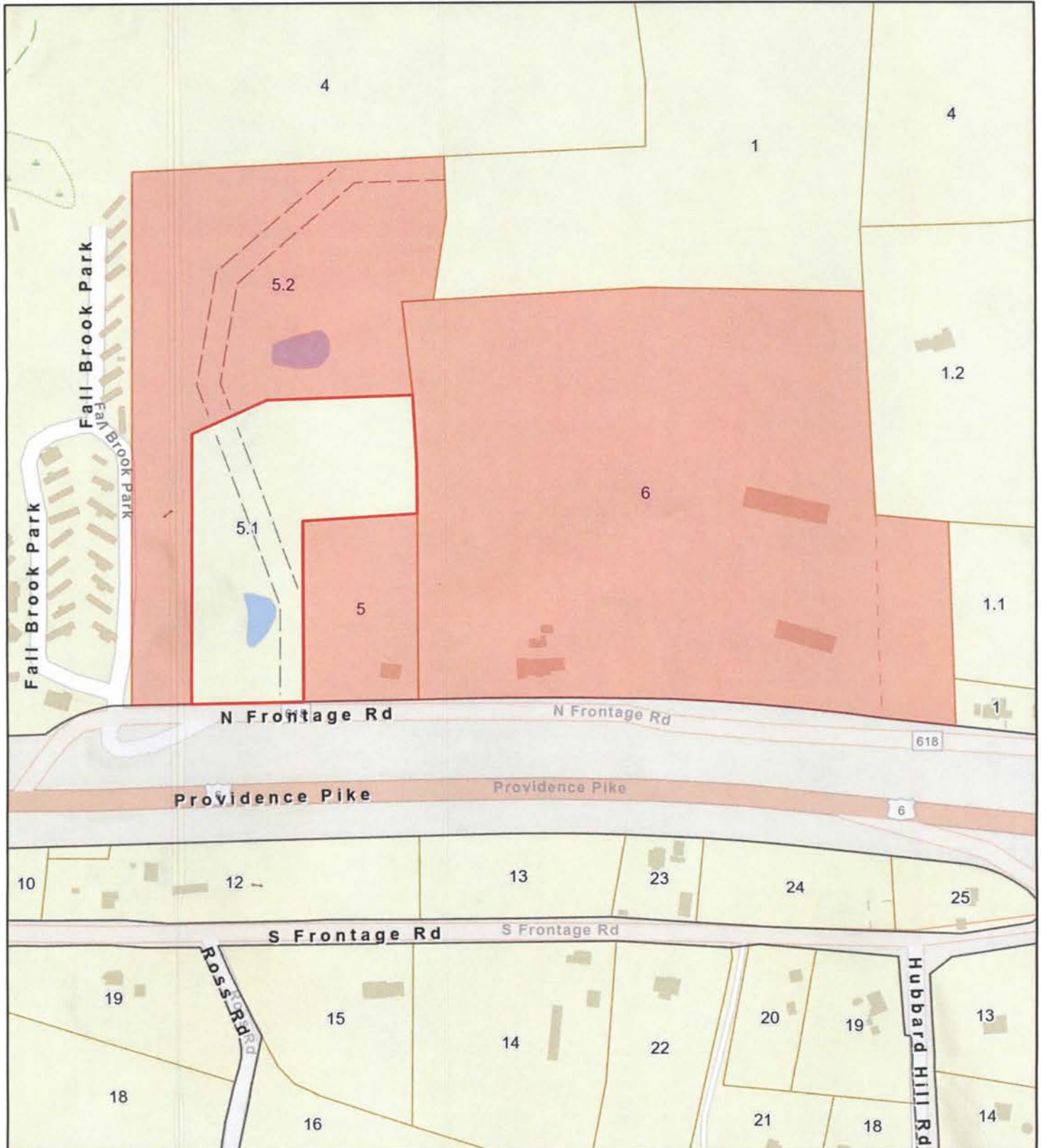
Town of Killingly, CT

1 inch = 300 Feet



www.cai-tech.com

September 6, 2023



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



Statewide Inland Wetlands & Watercourses Activity Reporting Form

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

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

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

PART I: Must Be Completed By The Inland Wetlands Agency

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

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

- TOWN IN WHICH THE ACTIVITY IS OCCURRING (print name): Killingbury
does this project cross municipal boundaries (check one)? yes no
if yes, list the other town(s) in which the activity is occurring (print name(s)): _____
- LOCATION (see instructions for information): USGS quad name: Killingbury or number: 44
subregional drainage basin number: 3400
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Edward & Lynn Martins
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 34 North Frontage Road
briefly describe the action/project/activity (check and print information): temporary permanent description: Construction of a Single-Family Home w/ Septic & Well
- ACTIVITY PURPOSE CODE (see instructions - one code only): B
- ACTIVITY TYPE CODE(S) (see instructions for codes): 1, 2, 12, 14
- WETLAND / WATERCOURSE AREA ALTERED (see instructions for explanation, must provide acres or linear feet):
wetlands: 0 acres open water body: 0 acres stream: 0 linear feet
- UPLAND AREA ALTERED (must provide acres): 1.1 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

DATE RECEIVED:

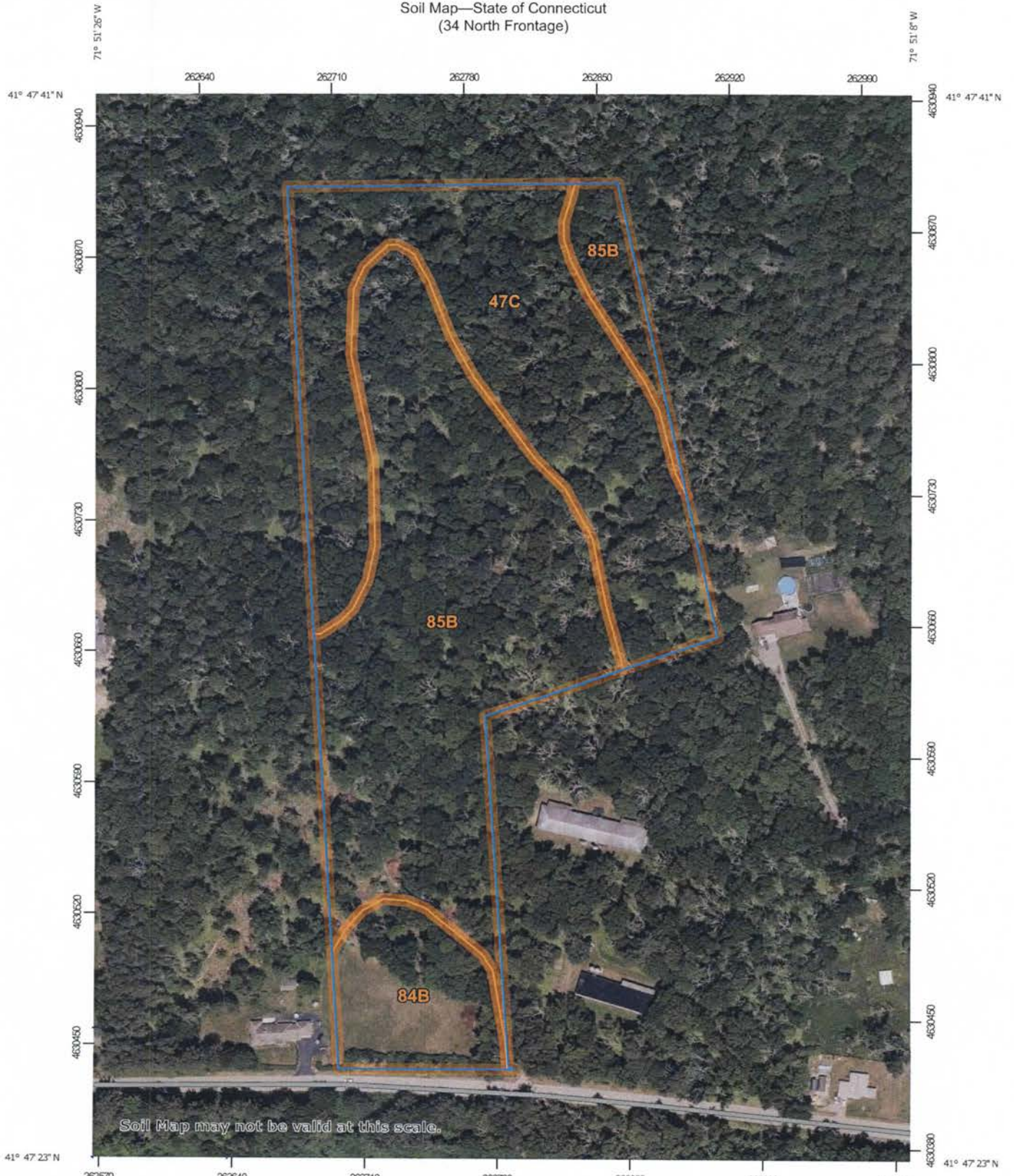
PART III: To Be Completed By The DEEP

DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

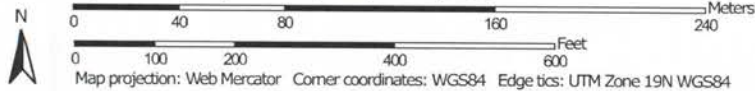
FORM CORRECTED / COMPLETED: YES NO

Soil Map—State of Connecticut
(34 North Frontage)



Soil Map may not be valid at this scale.

Map Scale: 1:2,770 if printed on A portrait (8.5" x 11") sheet.



MAP INFORMATION

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

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

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

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

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

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

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



Soil Survey Area: State of Connecticut
Survey Area Data: Version 22, Sep 12, 2022

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

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

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

MAP LEGEND

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
47C	Woodbridge fine sandy loam, 3 to 15 percent slopes, extremely stony	6.6	38.3%
84B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes	1.7	9.8%
85B	Paxton and Montauk fine sandy loams, 3 to 8 percent slopes, very stony	9.0	51.9%
Totals for Area of Interest		17.3	100.0%

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

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

KEEP LAND DISTURBANCE TO A MINIMUM

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

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

SLOW THE FLOW

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

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

KEEP CLEAN RUNOFF SEPARATED

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

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

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

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

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

SEPTIC SYSTEM CONSTRUCTION NOTES

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

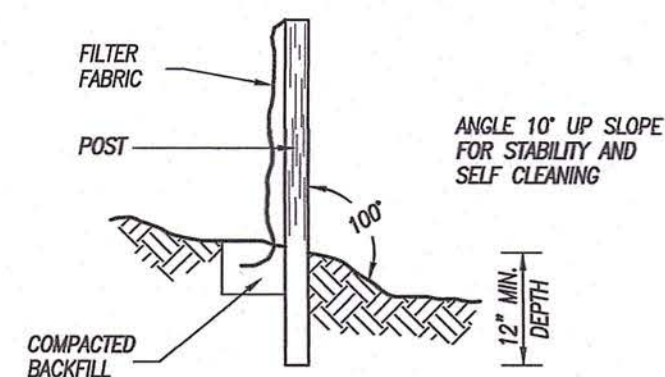
GRADATION OF FILL (MINUS GRAVEL)

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%

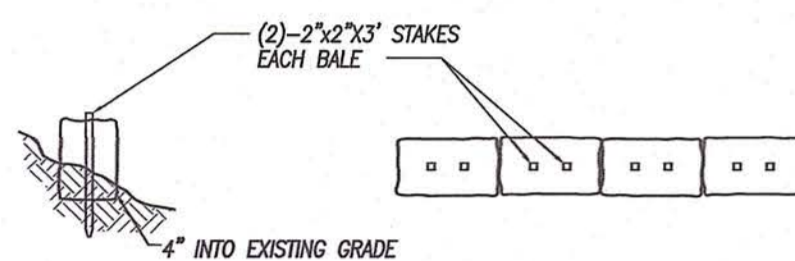
Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of five feet (5') around the perimeter of the system. Common fill shall extend an additional five feet (5') down gradient of the system (10' total) before tapering off at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

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

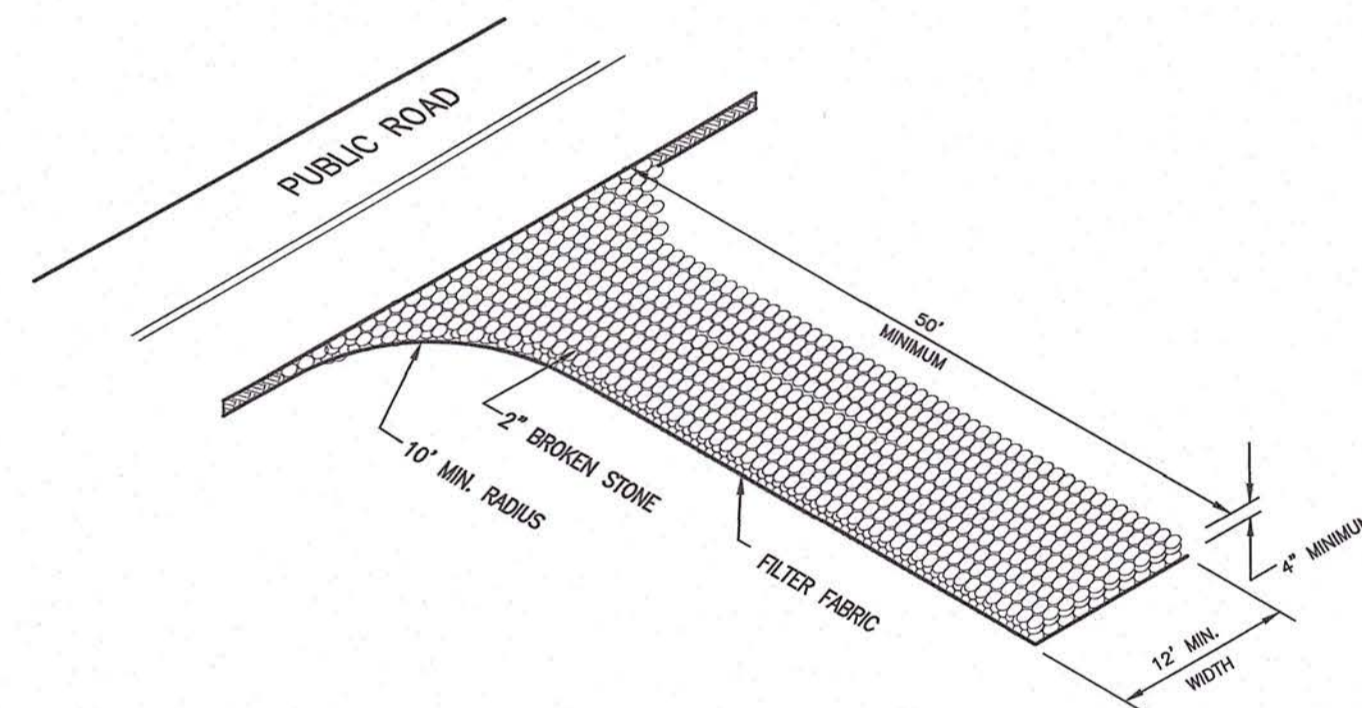
SIEVE SIZE	% PASSING
0.375	100
#4	95-100
#8	80-100
#16	60-85
#30	25-60
#50	10-30
#100	<10
#200	<5



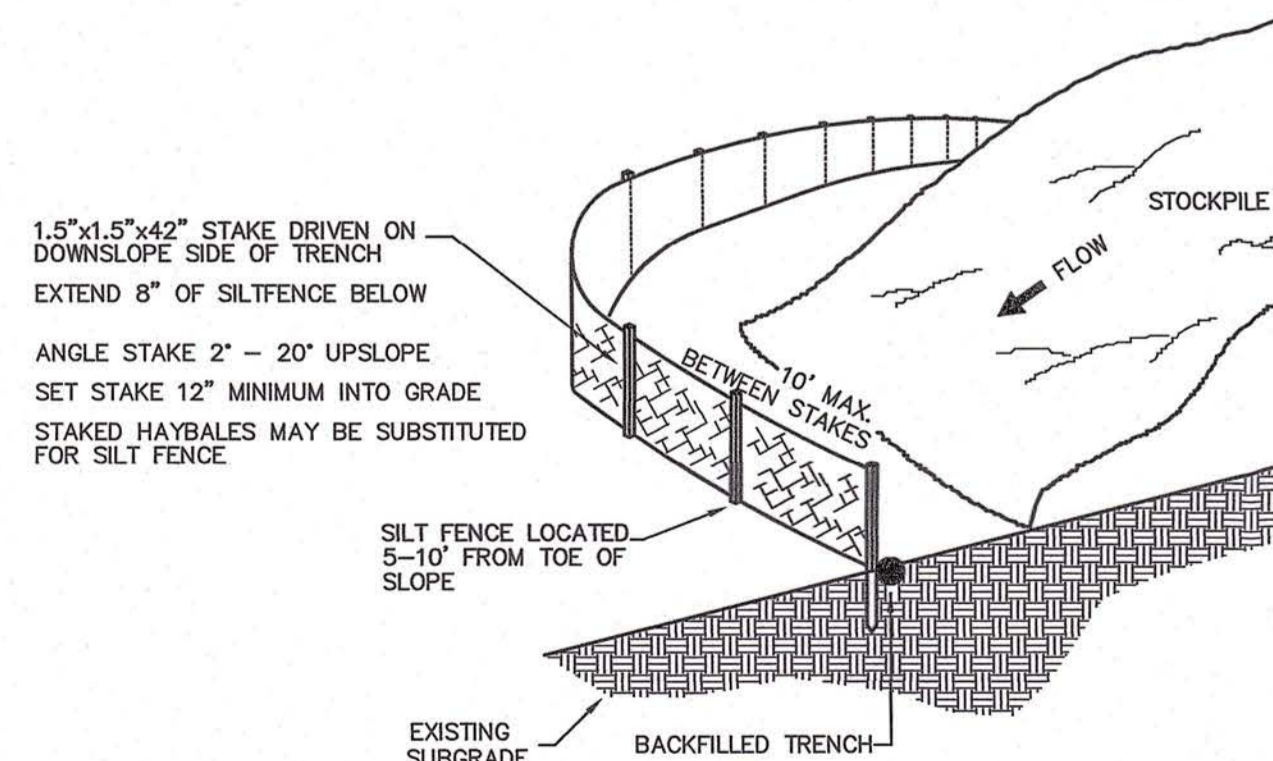
SILT FENCE
NOT TO SCALE



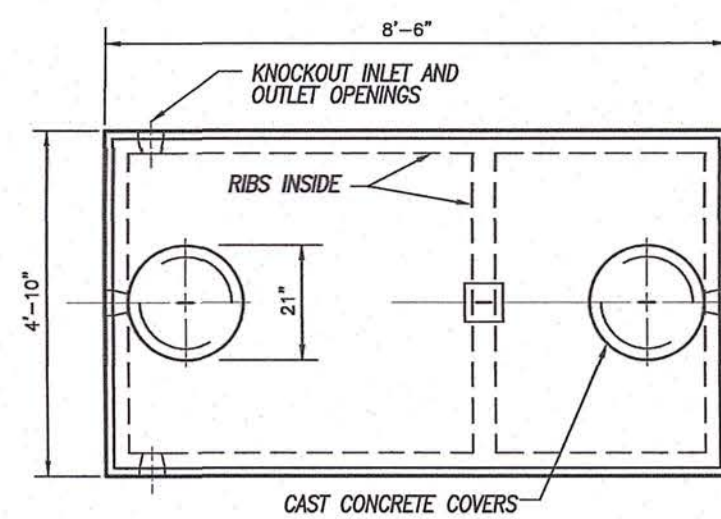
HAYBALE BARRIER
NOT TO SCALE



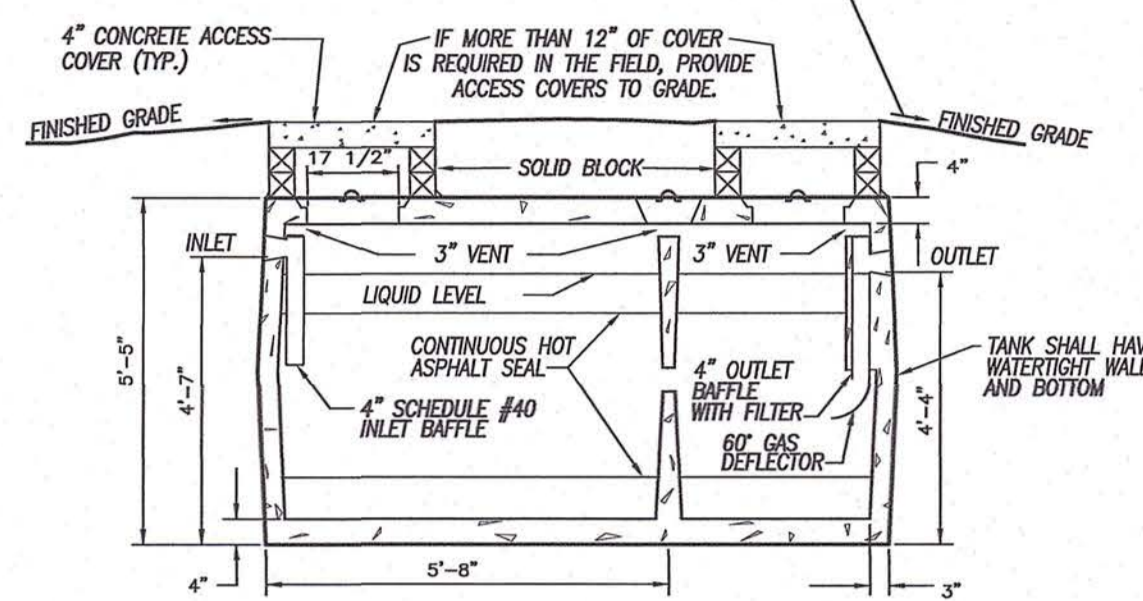
ANTI-TRACKING PAD
NOT TO SCALE



SILT FENCE @ TOE OF SLOPE APPLICATION
NOT TO SCALE

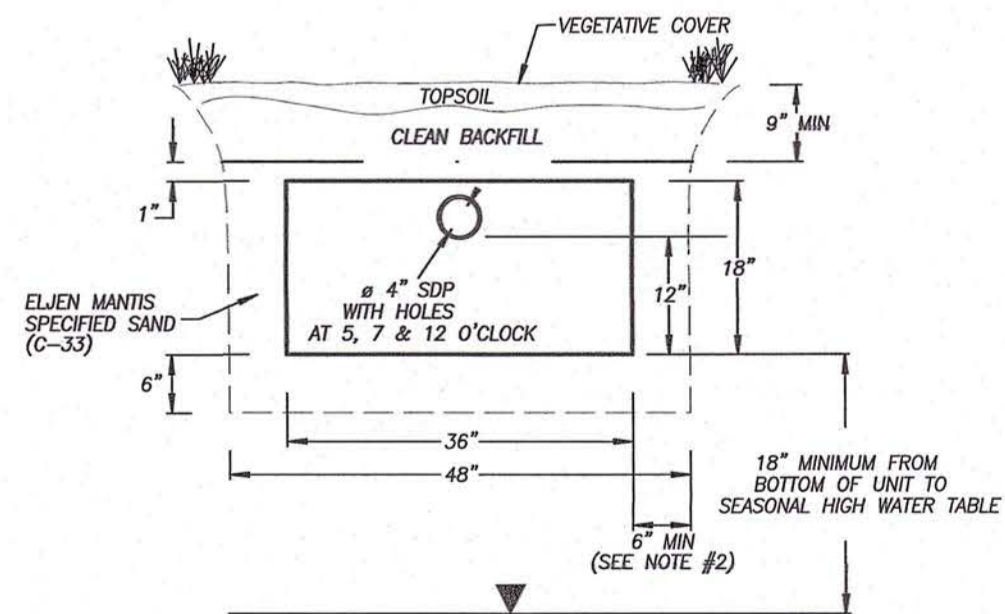
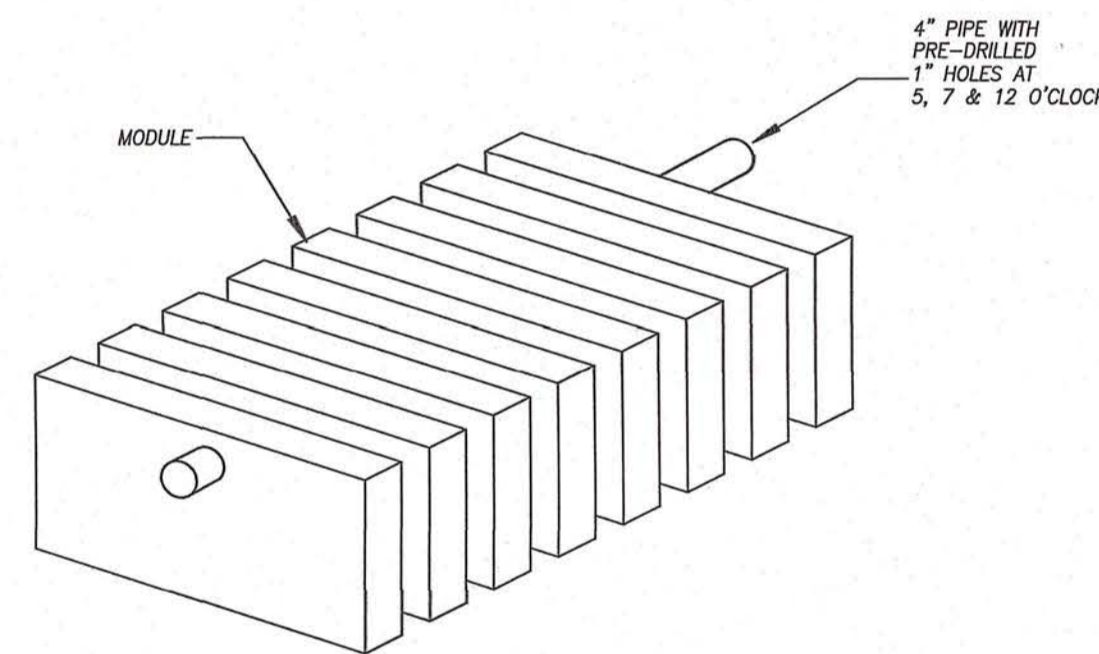


PLAN



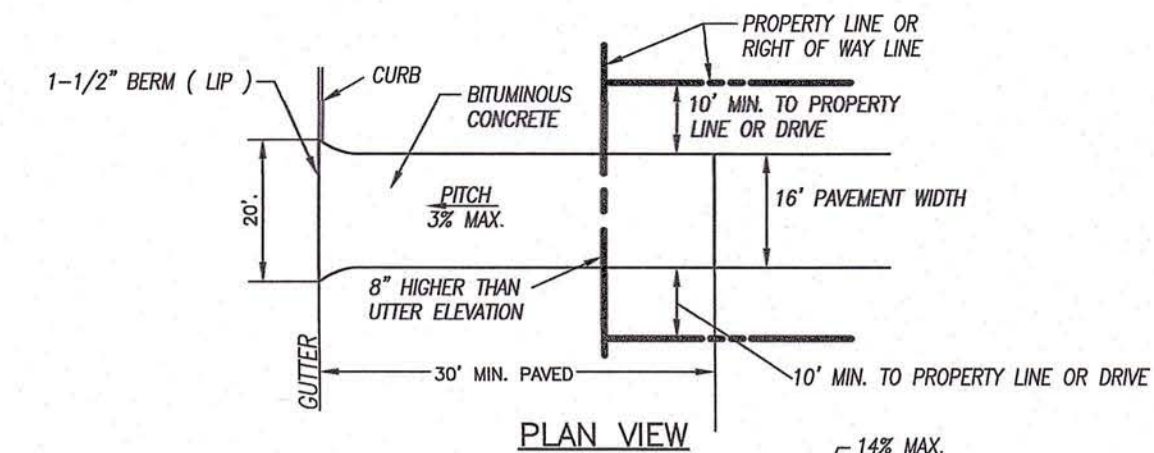
CROSS SECTION

**1000 GALLON
2 COMPARTMENT
SEPTIC TANK**
NOT TO SCALE

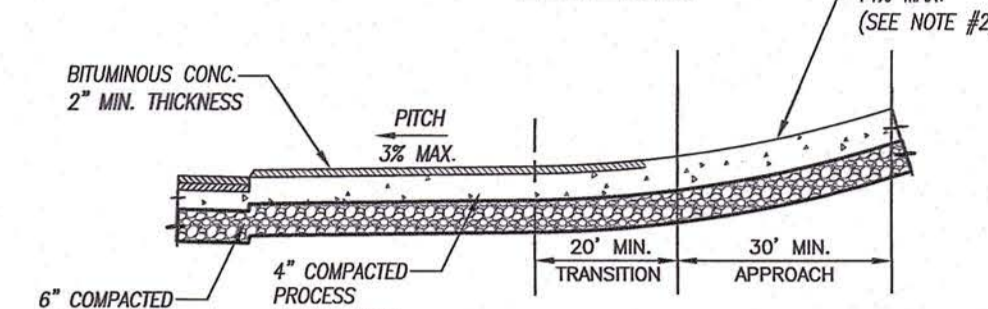


- NOTES:**
- VENTING REQUIRED WHEN MORE THAN 18" OF COVER AS MEASURED FROM THE TOP OF THE UNIT TO FINISHED GRADE.
 - FOR SYSTEMS INSTALLED IN FILL, CONTRACTOR SHALL PROVIDE 5' OF SELECT FILL OR ASTM C-33 SAND 5' AROUND PERIMETER OF SYSTEM.

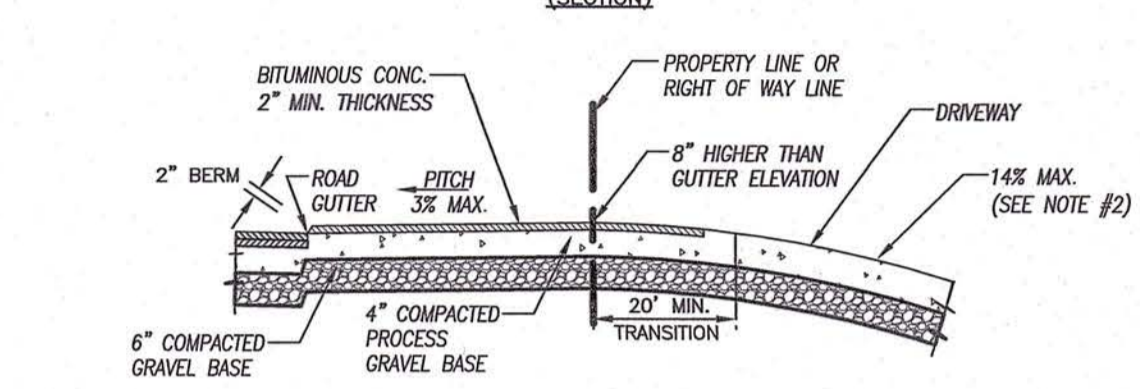
**ELJEN 536-8 WASTEWATER
LEACHING SYSTEM**



PLAN VIEW



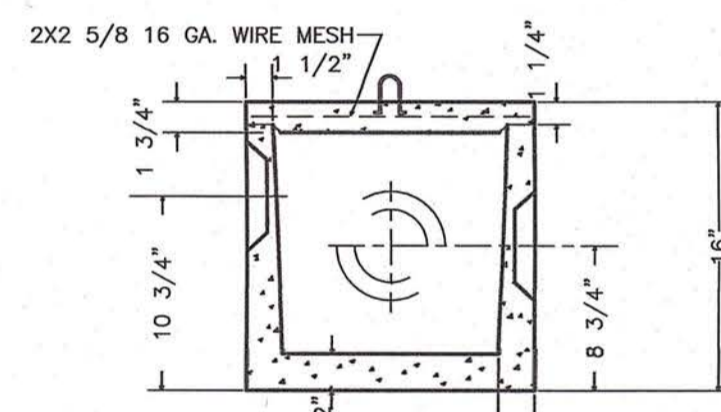
**LAND ABOVE ROAD
(SECTION)**



**LAND BELOW ROAD
(SECTION)**

- THE ABOVE DETAIL IS ILLUSTRATIVE ONLY AND DOES NOT APPLY TO EVERY SITUATION. REVIEW YOUR DRIVEWAY PERMIT FOR YOUR SPECIFIC REQUIREMENTS.
- DRIVEWAYS IN EXCESS OF 106 GRADE, AND ALL COMMON (SHARED) DRIVEWAYS SHALL BE PAVED WITH BITUMINOUS CONCRETE.

STANDARD COMMON DRIVE DETAIL
NOT TO SCALE



STANDARD D-BOX
NOT TO SCALE

DATE	DESCRIPTION

DETAIL SHEET - LOT 5-1

PREPARED FOR

**EDWARD S. MARTINS &
LYNN V. MARTINS**

34 NORTH FRONTAGE ROAD
KILLINGLY, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying



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

DATE: 7/28/2023	DRAWN: AMR
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 2 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 21022

RECEIVED

SEP 06 2023

PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

Normand Thibault 9/6/2023
NORMAND THIBAUT, JR., P.E. No. 22834 DATE