

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: Map 170, Lot 11
Samantha J. Menghi,
PO Box 339, Killingly, CT 06234
See Volume 1399, Page 524

Map 170, Lot 12.2
Samantha J. Menghi,
PO Box 339, Killingly, CT 06234
See Volume 1376, Page 632
- Parcel is shown as Lot #12.2 on Assessors Map #170.
- Parcel lies within Flood Hazard Zone "X" (areas of minimal flooding) as shown on FIRM Map #09015C Panel 0254F Effective Date: 9/7/2023.
- Elevations shown are based on North American Vertical Datum of 1988 (NAVD 88). Contours shown are taken from Connecticut statewide LIDAR and supplemented with actual field survey. Contour interval = 2'.
- Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, in September 2016.
- 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 REFERENCES:

- "Plan of Land - To be Acquired by - U.S. Land Company - In the Town of Killingly, Conn. - Scale: 1" = 200' - Date: Mar. 1, 1969 Prepared by: William W. Pike, Surveyor." On file in the Town of Killingly Land Records as Map #46A.
- "General Location Survey - Prepared for - George Pearce - Bailey Hill Road - Killingly, Connecticut - Scale: 1" = 40' - Date: 11/16/2007 - Sheet 1 of 1 - Prepared by: KWP Associates." On file in the Town of Killingly Land Records as Map #5042.

DATE	DESCRIPTION

IMPROVEMENT LOCATION SURVEY
SHOWING PROPOSED IN-LAW APARTMENT
PREPARED FOR
SAMANTHA J. MENGHI
476 BAILEY 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: 9/14/2023	DRAWN: RGS
SCALE: 1" = 30'	DESIGN: NET
SHEET: 1 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 16090

SEPTIC SYSTEM DESIGN DATA

Percolation Rate	= 7 min. / in.
Existing 3 Bedroom requires	= 495 s.f. effective leaching area
Proposed In-Law requires	= 165 s.f. effective leaching area
Total required	= 660 s.f.
Length Required	= 660/3 = 220 l.f.
Min. Leaching System Spread	= 20 x 1.75 x 1 = 35'
MLSS Provided	= 55'
Proposed increase	= 33%

Additional flow is less than 50% increase therefore expansion of system is not required at this time. Plan demonstrates that area for expansion is available.

LINE DATA

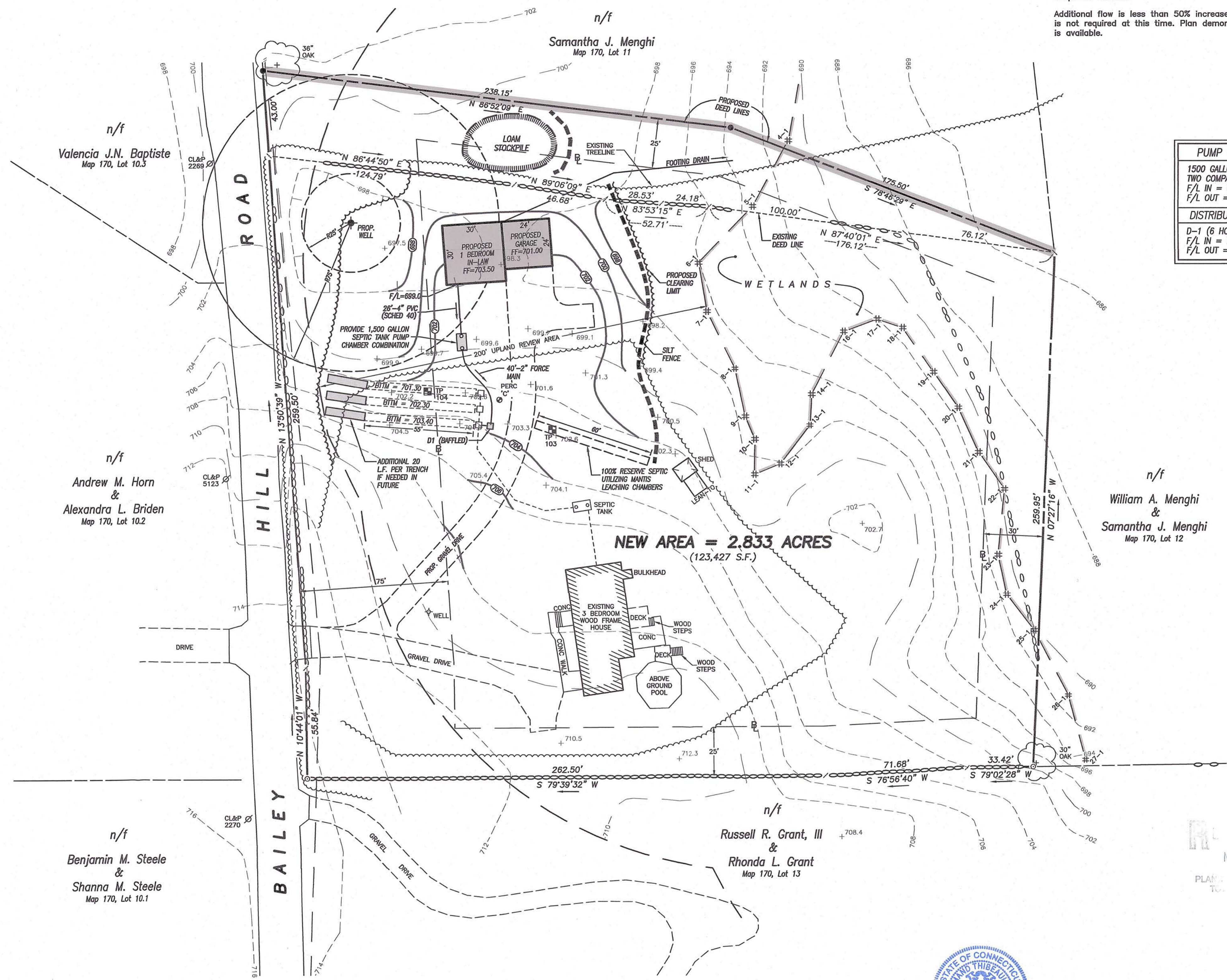
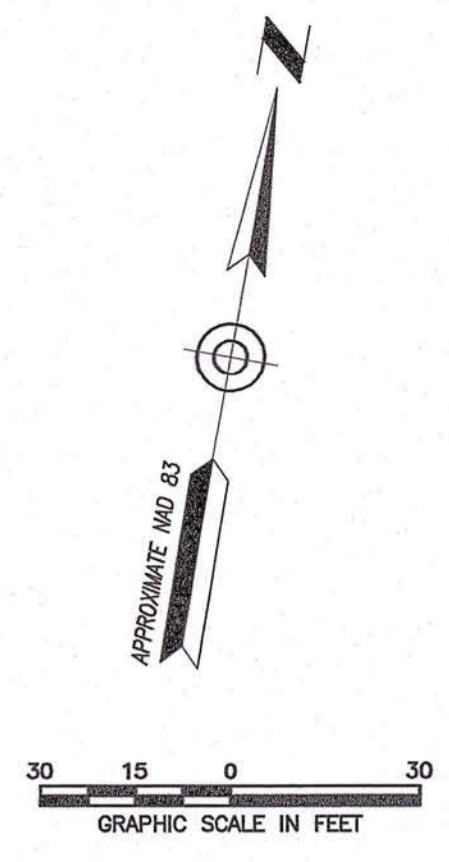
L1	N 86°04'39" E	31.98'
L2	N 74°13'30" E	21.31'

PUMP CHAMBER

1500 GALLON
TWO COMPARTMENT
F/L IN = 698.25
F/L OUT = 698.00

DISTRIBUTION BOX

D-1 (6 HOLE W/BAFFLE)
F/L IN = 704.17
F/L OUT = 704.00



- LEGEND
- F.F. FINISHED FLOOR
 - IRON PIN TO BE SET
 - IRON PIN FOUND
 - ⊕ UTILITY POLE
 - - - EXISTING CONTOURS
 - PROPOSED CONTOURS
 - ▨ INLAND WETLANDS FLAG
 - BUILDING SETBACK LINE
 - PERCOLATION TEST HOLE
 - ⊗ TEST HOLE
 - ⊖ STONE WALL
 - STONE WALL REMAINS
 - 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

APPROVED BY THE TOWN OF
KILLINGLY INLAND WETLANDS COMMISSION

Normand E. Thibault 11/15/23
NORMAND E. THIBAUT, JR., P.E. DATE
LIC #PEN 0022834



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

Greg A. Glauze 11.15.2023
GREG A. GLAUZE, 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.

EROSION AND SEDIMENT CONTROL NARRATIVE:

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

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

KEEP LAND DISTURBANCE TO A MINIMUM

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

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

SLOW THE FLOW

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

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

KEEP CLEAN RUNOFF SEPARATED

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

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

REDUCE ON SITE POTENTIAL INTERNALLY AND INSTALL PERIMETER CONTROLS

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

- Control erosion and sedimentation in the smallest drainage area possible. It is easier to control erosion than to contend with sediment after it has been carried downstream and deposited in unwanted areas.
- Direct runoff from small disturbed areas to adjoining undisturbed vegetated areas to reduce the potential for concentrated flows and increase settlement and filtering of sediments.
- Concentrated runoff from development should be safely conveyed to stable outlets using rip rapped channels, waterways, diversions, storm drains or similar measures.

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

SEPTIC SYSTEM CONSTRUCTION NOTES

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

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

Fill material shall be approved by the sanitarian prior to placement. It shall be compacted in 6" lifts and shall extend a minimum of ten feet (10') beyond the last leaching trench before tapering off.

- Septic tank/pump shall be two compartment precast tank with gas deflector and outlet filter as manufactured by Jolley Precast, Inc. or equal.
- Distribution boxes shall be 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-2729 or ASTM D-3350, 1500 lb. minimum crush.
- Sewer pipe from the foundation wall to the septic tank shall be schedule 40 PVC meeting ASTM D 1785. It shall be laid true to the grades shown on the plans and in no case shall have a slope less than 0.25 inches per foot.
- Solid footing drain outlet pipe shall be 4" Diameter PVC meeting ASTM D 3034, SDR 35 with compression gasketed joints. Footing drain outlet pipe shall not be backfilled with free draining material, such as gravel, broken stone, rock fragments, etc.
- Septic sand shall meet the requirements of ASTM C-33 with less than 10% passing a 100 sieve and less than 5% passing a 200 sieve

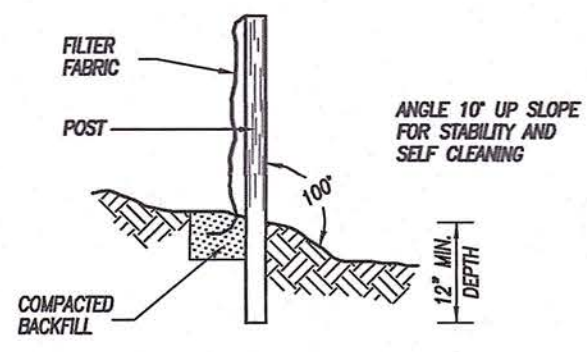
SIEVE SIZE	% PASSING
0.375	100
#4	95-100
#8	80-100
#16	60-85
#30	25-60
#50	10-30
#100	<10
#200	<5

**TEST HOLE DATA - October 21, 2016
Northeast District Department of Health**

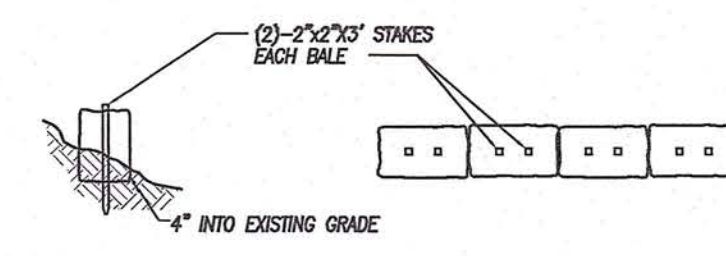
TEST PIT	DEPTH	PROFILE
103	0" - 6"	Organic Topsoil
	6" - 36"	Yellow Brown Fine Loamy Sand
	36" - 101"	Gray Very Fine Sandy Loam, Mottled
	Ledge	N/A
	GWT	95"
	Mottling	36"
Roots	26"	
104	0" - 6"	Organic Topsoil
	6" - 36"	Yellow Brown Fine Sandy Loam w/Stones & Rocks
	36" - 58"	Gray Very Fine Sandy Loam, Mottled
	58" - 100"	Bony Coarse Loamy Sand & Gravel
	Ledge	N/A
	GWT	N/A
Mottling	36"	
Roots	34"	

**PERCOLATION TEST RESULT - October 21, 2016
NORTHEAST DISTRICT DEPARTMENT OF HEALTH**

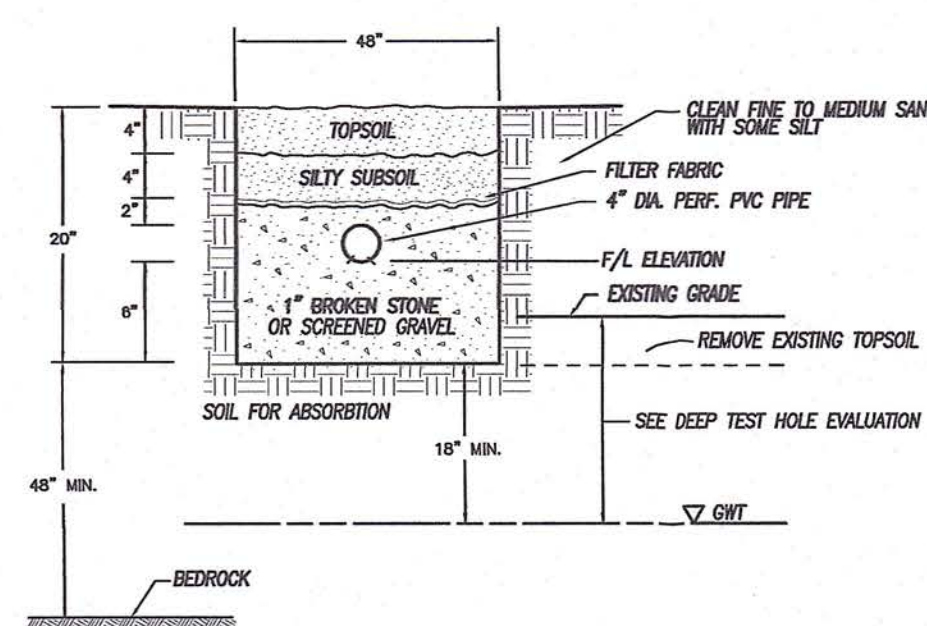
HOLE 1
Rate = 7.0 min./in.



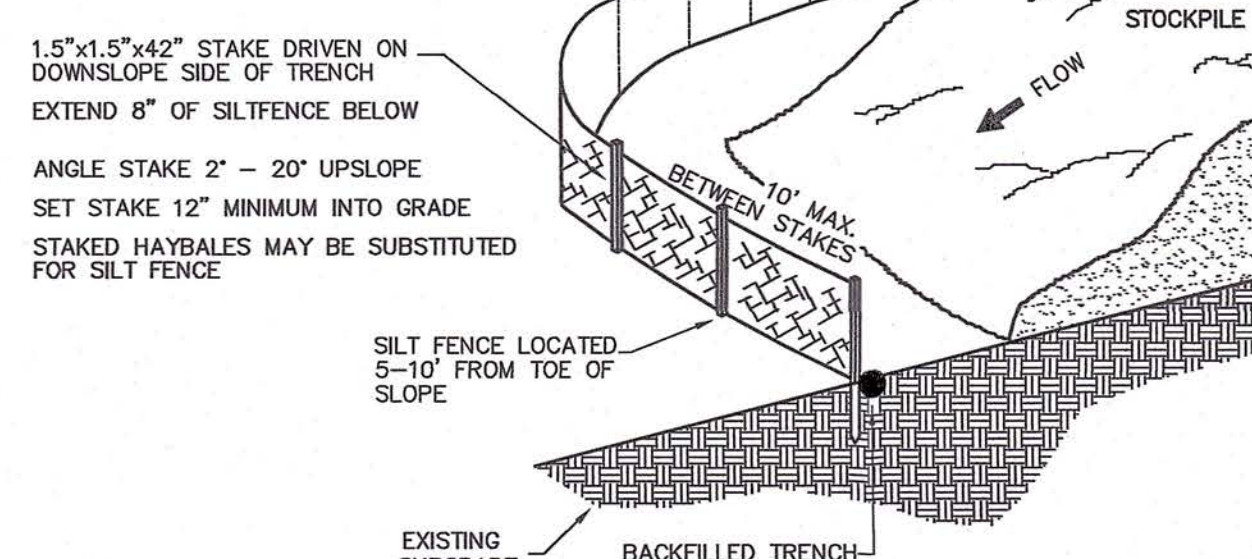
SILT FENCE
NOT TO SCALE



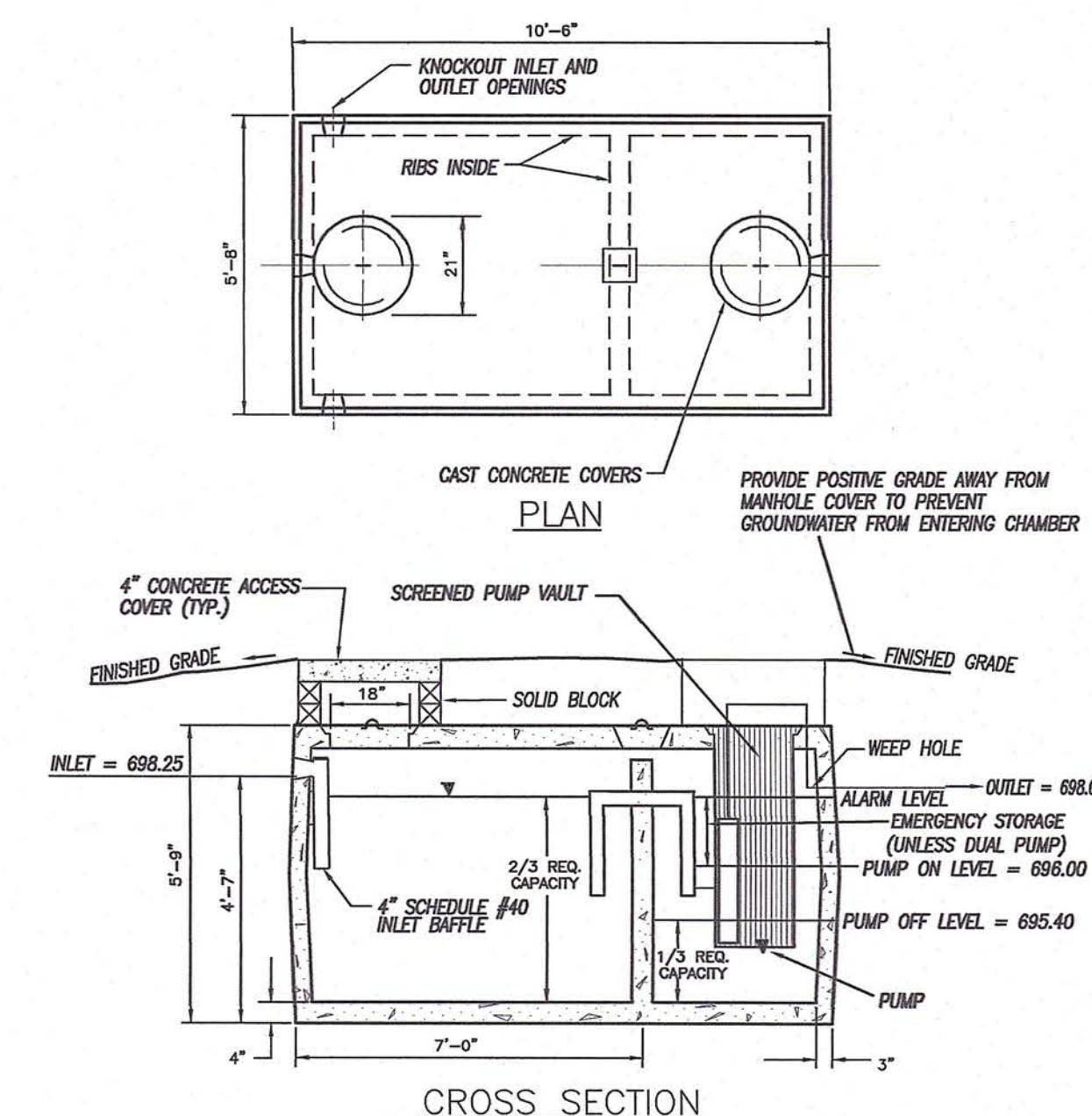
HAYBALE BARRIER
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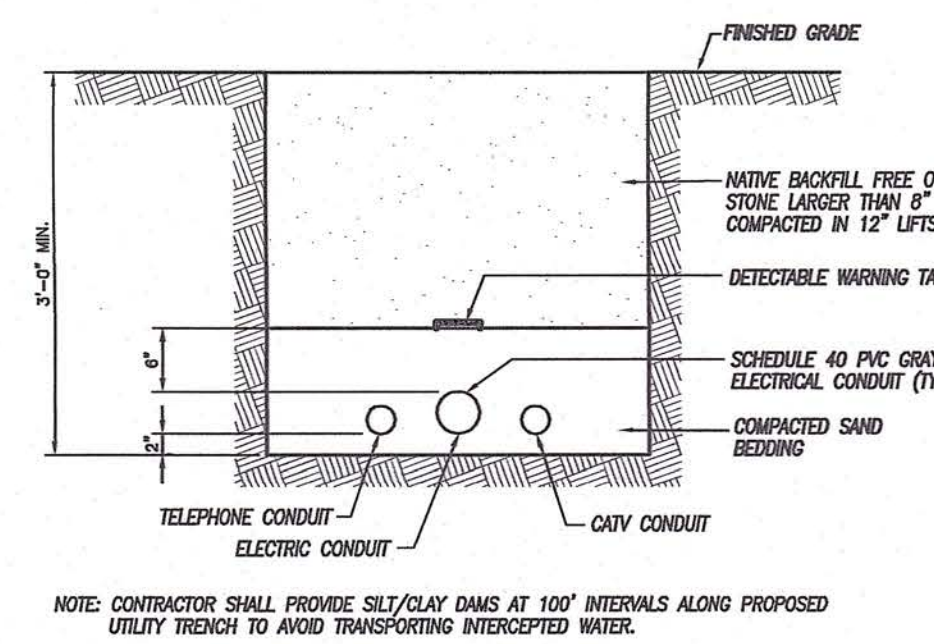
TYPICAL LEACHING TRENCH SECTION
NOT TO SCALE



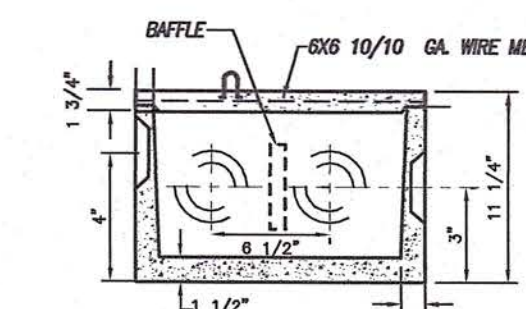
SILT FENCE @ TOE OF SLOPE APPLICATION
NOT TO SCALE



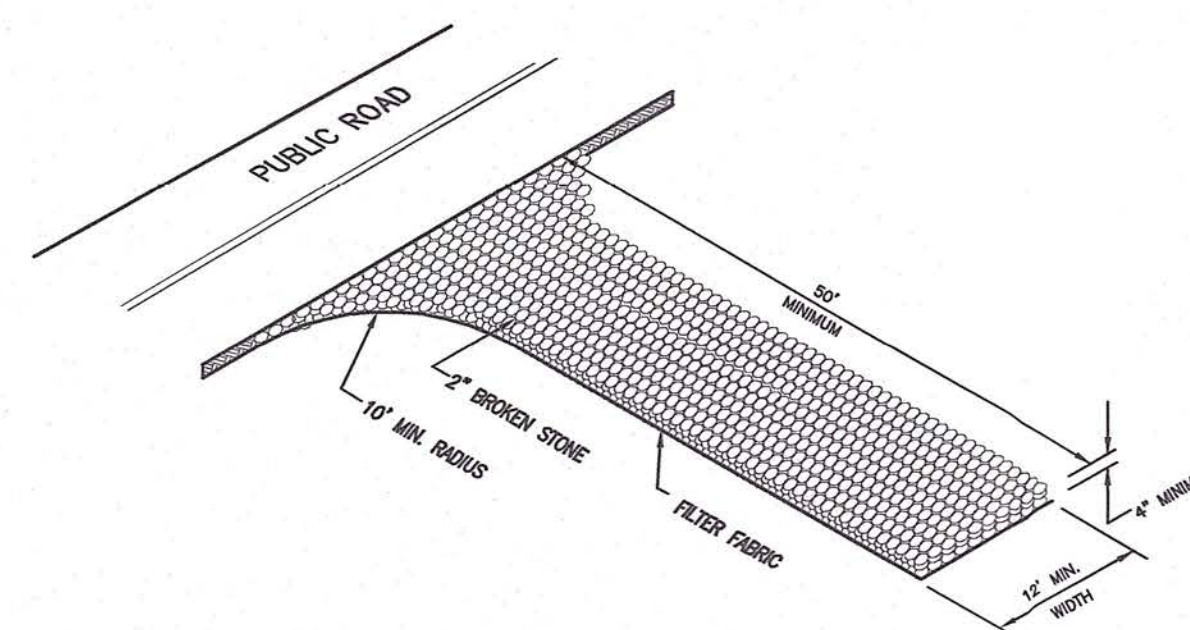
1500 GALLON 2 COMPARTMENT SEPTIC TANK/PUMP SYSTEM WITH TEE BAFFLE
NOT TO SCALE



UNDERGROUND UTILITY TRENCH
NOT TO SCALE



6 HOLE D-BOX W/BAFFLE
NOT TO SCALE



ANTI-TRACKING PAD
NOT TO SCALE

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APPROVED BY THE TOWN OF KILLINGLY INLAND WETLANDS COMMISSION

CHAIRMAN DATE

RECEIVED
NOV 28 2023
PLANNING & ZONING DEPT.
TOWN OF KILLINGLY

DATE	DESCRIPTION
	REVISIONS

DETAIL SHEET
PREPARED FOR

SAMANTHA J. MENGHI

476 BAILEY HILL ROAD
KILLINGLY, CONNECTICUT

Killingly Engineering Associates
Civil Engineering & Surveying
114 Westcott Road
P.O. Box 421
Killingly, Connecticut 06241
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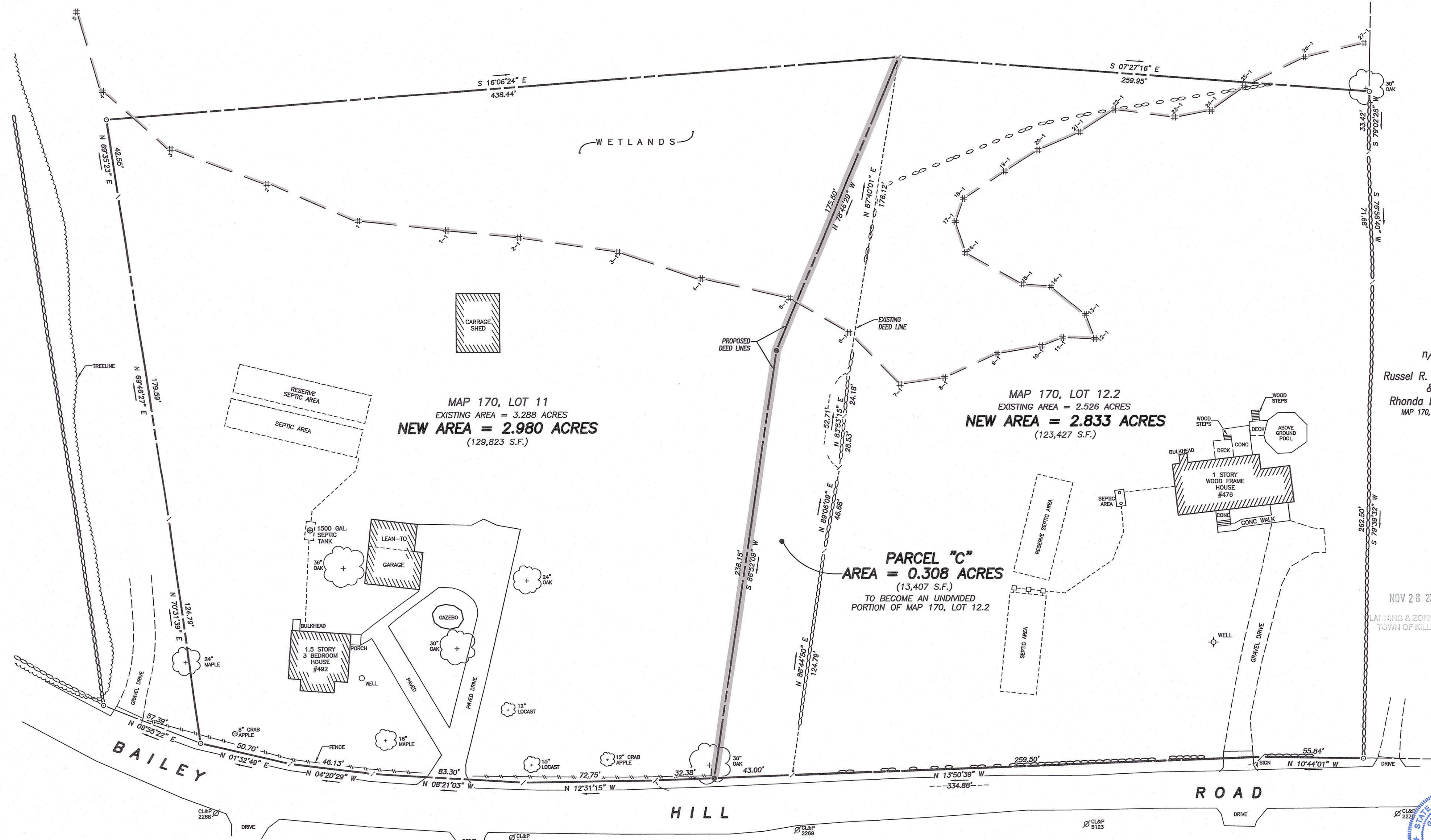
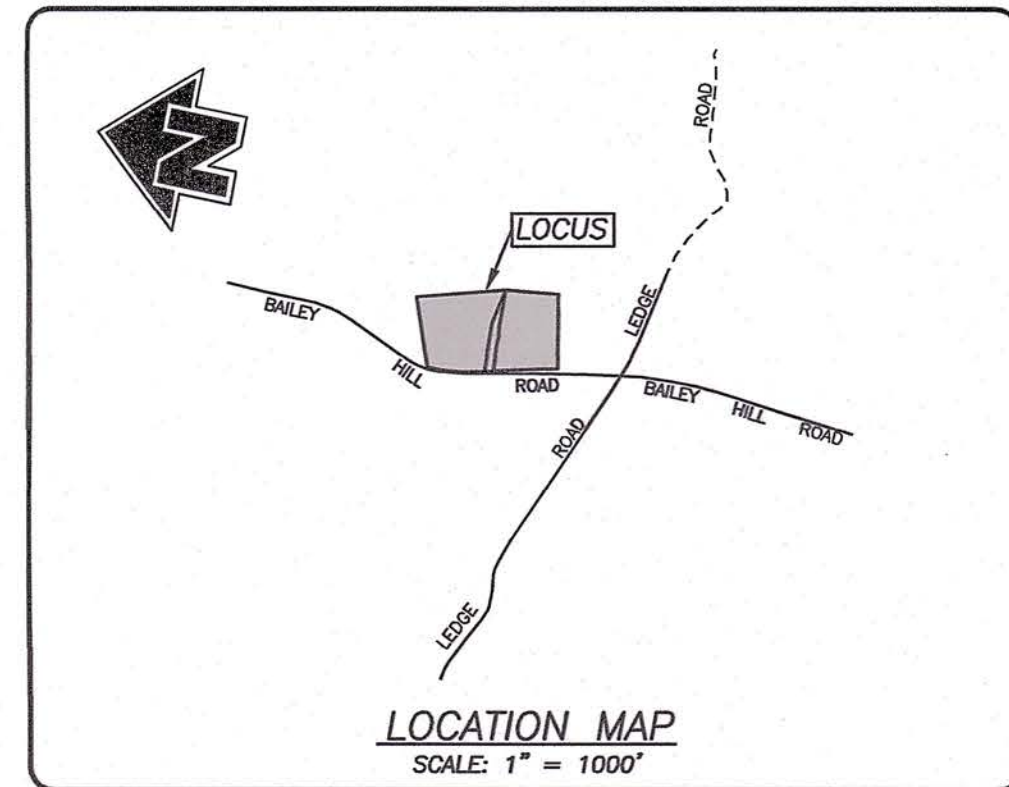
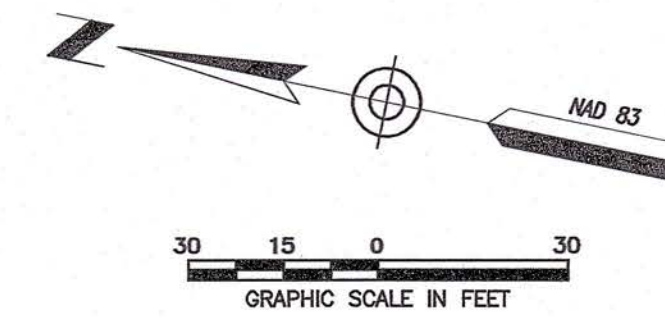
DATE: 9/14/2023	DRAWN: RGS
SCALE: NOT TO SCALE	DESIGN: NET
SHEET: 2 OF 2	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 16090

Normand E. Thibault, Jr. 4/15/23
NORMAND E. THIBAUT, JR., P.E. DATE

TABLE OF ZONING REQUIREMENTS					
ZONE = RURAL DISTRICT					
	REQUIRED	LOT 11		LOT 12.2	
		EXISTING	PROPOSED	EXISTING	PROPOSED
Lot Area	80,000 S.F.	143,230 S.F.	129,823 S.F.	110,020 S.F.	123,427 S.F.
Lot Frontage	250'	328.26'	285.26'	315.34'	358.34'
Front Yard Setback	75'	40.5'	40.5'	134.7'	134.7'
Side Yard Setback	25'	192.0'	150.6'	182.6'	225.0'
Rear Yard Setback	30'	110.8'	110.8'	179.7'	179.7'

* Existing non-conforming condition.

n/f
 William A. Menghi
 &
 Samantha J. Menghi
 MAP 170, LOT 12



n/f
 Russel R. Grant, III
 &
 Rhonda L. Grant
 MAP 170, LOT 13

- NOTES:**
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 - This survey conforms to a Class "A-2" horizontal accuracy.
 - Survey Type: Property Survey.
 - Boundary Determination Category: Along Existing Deed Lines - Dependent Resurvey Along Proposed Deed Lines - Original Survey
 - Zone = RD.
 - Owner of record: Map 170, Lot 11 Samantha J. Menghi P.O. Box 339, Killingly, CT 06243 See Volume 1399, Page 524
 Map 170, Lot 12.2 Samantha J. Menghi P.O. Box 339, Killingly, CT 06243 See Volume 1376, Page 632
 - The intent of this map is to show a boundary line adjustment. The new configuration confirms to current Zoning Regulations.

- MAP REFERENCES:**
- "Plan of Land - To be Acquired by - U.S. Land Company - In the Town of Killingly, Conn. - Scale: 1" = 200' - Date: Mar. 1, 1969 Prepared by: William W. Pike, Surveyor." On file in the Town of Killingly Land Records as Map #46A.
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DATE	DESCRIPTION

PROPERTY SURVEY
 SHOWING BOUNDARY LINE ADJUSTMENT
 PREPARED FOR
SAMANTHA J. MENGHI
 476-492 BAILEY HILL ROAD
 KILLINGLY, CONNECTICUT

Killingly Engineering Associates
 Civil Engineering & Surveying
 114 Westcott Road
 P.O. Box 421
 Killingly, Connecticut 06241
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DATE: 10/03/2023	DRAWN: RGS
SCALE: 1" = 30'	DESIGN: ---
SHEET: 1 OF 1	CHK BY: GGO
DWG. No: CLIENT FILE	JOB No: 16090

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON,
 GREG A. GLAUDE, L.S. LIC. NO. 70191 DATE
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