

Town of Essex  
 Inland Wetlands and Watercourses Commission  
 Revised 3/9/2022

Application # \_\_\_\_\_ Date received by Office \_\_\_\_\_ Fee \_\_\_\_\_

**Owner of Record** Gregory & Mikaela Zito, JT

Home Address 21 Sweetbrier Road, East Granby, CT 06026

Mailing Address: 21 Sweetbrier Road, East Granby, CT 06026

Phone: Home/Cell 860-922-9407 Work: \_\_\_\_\_

**Applicant's Name:** Same

Home Address \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Phone: Home/Cell \_\_\_\_\_ Work: \_\_\_\_\_

Applicant's interest in the land if the applicant is not the property owner \_\_\_\_\_

Location of Property by Street & Village Address: 118 Ingham Hill Road, Essex  
 Map 94 Lot 12 Lot Size 17.82 District RU

Check applicable activities occurring in or within 100 feet of wetlands and/or watercourses:

Construction of a structure(s)	<u>X</u>	Discharge	_____
Other site development work	<u>X</u>	Pond creation/dredging	<u>X</u>
Deposition or removal of material	<u>X</u>	Tree removal	<u>X</u>
Stream altering/channelization	_____	Dam maintenance	_____
Subdivision/Resubdivision	_____	Other	_____

Nature of Request: Explain in detail the extent of any activity checked above, the type of material, and the equipment to be used to complete project. (Use additional sheets if necessary.)

Proposed to construct a house, driveway, sanitary system and pond on an existing vacant lot. The driveway will be a paved driveway on a gravel base constructed with conventional excavation and paving equipment, which will stockpile the excavated soil in the stockpile area shown. Some of the excavated soil will be used on site and some will be removed from the site.

Estimated length of time for project : \_\_\_\_\_

**Note:**

- 1) TO BE ACCEPTED BY THE LAND USE OFFICE. THIS APPLICATION MUST BE COMPLETED, SIGNED, AND SUBMITTED WITH THE REQUIRED FEE(S) AND MAP(S) PREPARED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.
- 2) THE SUBMITTAL OF THIS APPLICATION CONSTITUTES THE PROPERTY OWNER'S PERMISSION FOR THE COMMISSION OR ITS STAFF TO ENTER THE PROPERTY FOR THE PURPOSE OF INSPECTION.
- 3) I HERBY AGREE TO PAY ALL ADDITIONAL FEES AND/OR ADDRESS SUCH COSTS DEEMED NECESSARY BY THE LAND USE OFFICE AS DESCRIBED IN PART THREE OF THIS APPLICATION.

Explain what alternatives have been considered in connection with this application to avoid altering inland wetlands and/or watercourses?

Access to the site is limited to the chosen location and the house and sanitary system are beyond the 100 ft upland review area. The proposed pond will be a groundwater pond excavated in an area with no ledge and relatively high groundwater. There is no proposed activity directly within a watercourse or wetlands.

**ACTIVITY LOCATION (Map with sufficient detail must be submitted as a part of the application)**

Approximate number of acres of wetlands (or portion thereof) on the property: 0.91 Ac  
Approximate area of inland wetlands to be altered: 0

Approximate length of watercourse(s) on the property: 200' +/-  
Approximate length of watercourse(s) to be altered: 0

Approximate number of acres of upland review area on the property: 1.2 Ac  
Approximate area of upland review area to be altered: 0.2 Ac

If known, are vernal pools or tidal wetlands located on the property? 0  
If yes, where and how many acres (or portion thereof) on the property? \_\_\_\_\_

Is property located within a Special Flood Hazard Area? No  
If yes, where and how many acres (or portion thereof) on the property? \_\_\_\_\_

Has the property been flagged by a licensed soil scientist Yes  
If yes, by who, and when? R. Richard Snarski 1/30/23

Will there be water discharge into wetlands? Yes

Discharge – Specify Type Stormwater runoff

**Please complete the attached State Reporting Form**

**ADDITIONAL INFORMATION MAY BE REQUIRED DEPENDING UPON THE COMPLEXITY OF THE PROJECT.**

**State the names of all property owners adjacent to the subject property:**

Name of Adjacent Property Owner	Street Address (include Mailing Address if Different)
See Attached	

For large properties, please attach another sheet if necessary.

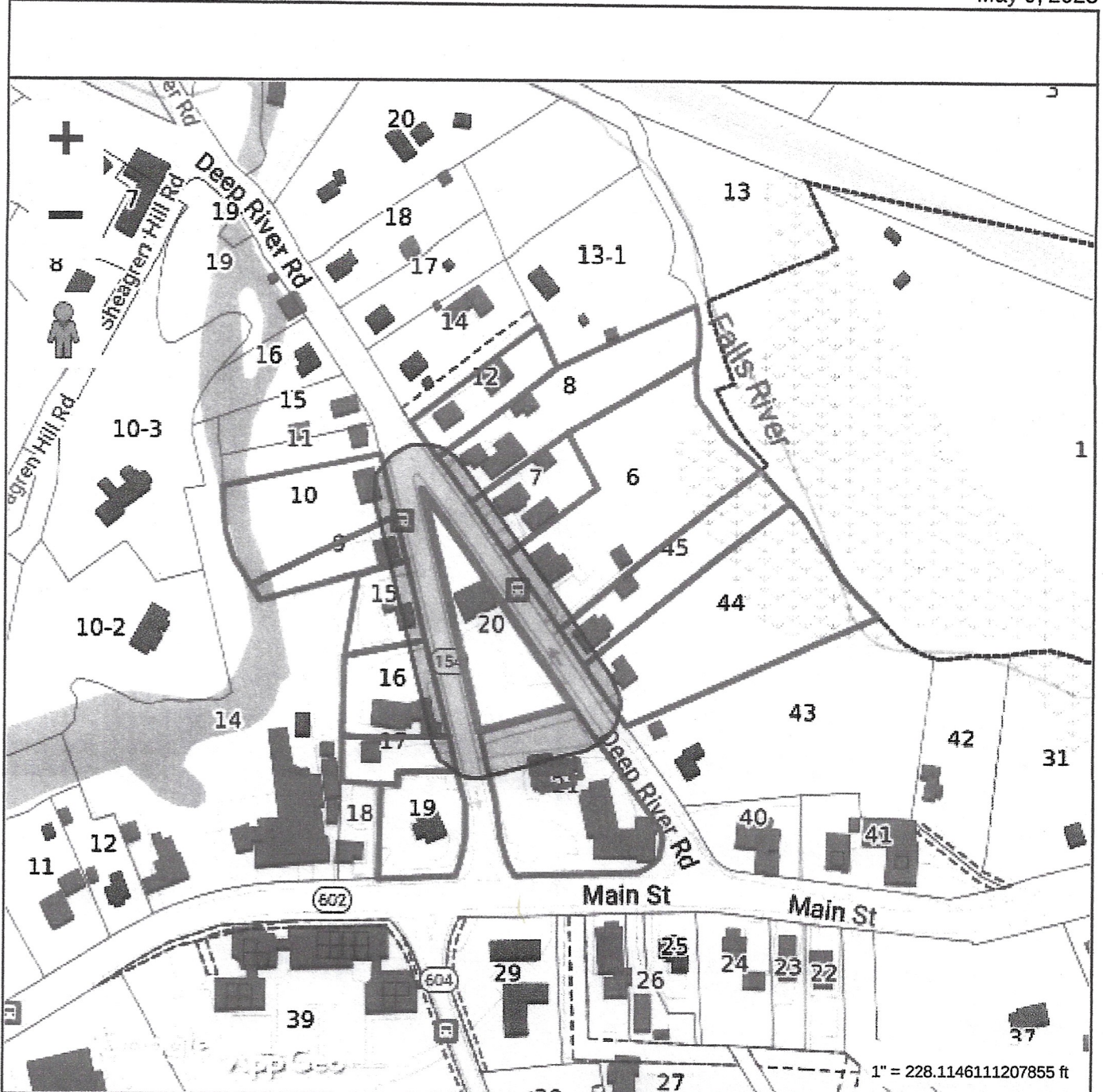




**ADJOINERS  
3 WESTBROOK ROAD  
CENTERBROOK, CT  
5-9-23**

<b>ID</b>	<b>Site Address</b>	<b>Owner Name</b>	<b>Owner Address</b>	<b>Owner City</b>	<b>ST</b>	<b>ZIP</b>
43-021-B	61 MAIN ST CTBK	VISITING NURSES OF THE LOWER VALLEY INC	61 MAIN ST	CENTERBROOK	CT	06409
43-021	61 MAIN ST CTBK	NAIRCO LLC	61 MAIN ST	CENTERBROOK	CT	06409
34-012	21 DEEP RIVER RD	EHLEMEYER JAMES E & JANICE H	21 DEEP RIVER RD	CENTERBROOK	CT	06409
34-007	17 DEEP RIVER RD	EVANS RICHARD E & LEOLA L	90 WOODLAND DR	CENTERBROOK	CT	06409
43-015	8 WESTBROOK RD	MOSA ANTHONY J ET AL, C/O FIRST BRISTOL FCU	P.O. BOX 698	BRISTOL	CT	06011
34-006	15 DEEP RIVER RD	375 MIDDLESEX TURNPIKE LLC	P.O. BOX 995	ESSEX	CT	06426
34-010	2 WESTBROOK RD	LAB PROPERTIES LLC	37 SEASCAPE DR	WESTBROOK	CT	06498
43-019	63 MAIN ST CTBK	FIRST NIAGARA BANK,	100 PUBLIC SQUARE, STE 600 COPRE	CLEVELAND	OH	44113
44-045	13 DEEP RIVER RD	SMITH PATRICK ANDREW & ODERKERKEN MICHELLE	13 DEEP RIVER RD	CENTERBROOK	CT	06409
43-016	10 WESTBROOK RD	MANNA HOLDINGS LLC	139 SHORE RD	CLINTON	CT	06413
34-008	19 DEEP RIVER RD	WHOBREY CHARLES R TRUSTEE OF CHARLES R WHOBREY DECLAR OF TRUST DATED 8/22/07	9310 JEFFERSON BLVD	CULVER CITY	CA	90232
44-044	11 DEEP RIVER RD	ESPOSITO MICHAEL	11 DEEP RIVER RD	CENTERBROOK	CT	06409
43-017	14 WESTBROOK RD	BRUCE PAUL	14 WESTBROOK RD	CENTERBROOK	CT	06409
34-009	4 WESTBROOK RD	EASTERN POSTAL REALTY HOLDINGS LLC	75 COLUMBIA AVE	CEDARHURST	NY	11516





**Property Information**

**Property ID** 43 20  
**Location** 3 WESTBROOK RD  
**Owner** ESSEX VETERANS MEMORIAL HALL INC



**MAP FOR REFERENCE ONLY  
NOT A LEGAL DOCUMENT**

Town of Essex, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 4/13/2021  
Data updated daily

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.



## 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, 3<sup>rd</sup> 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): Essex, CT  
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: Essex or number: 99  
subregional drainage basin number: \_\_\_\_\_
- NAME OF APPLICANT, VIOLATOR OR PETITIONER (print name): Gregory & Mikaela Zito, JT
- NAME & ADDRESS OF ACTIVITY / PROJECT SITE (print information): 118 Ingham Hill Road, Essex, CT  
briefly describe the action/project/activity (check and print information): temporary  permanent  description: \_\_\_\_\_  
It is proposed to construct a house, sanitary system, driveway and pond.
- ACTIVITY PURPOSE CODE (see instructions - one code only): A
- ACTIVITY TYPE CODE(S) (see instructions for codes): 1,2, 9, 11, 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): 1.5 acres
- AREA OF WETLANDS / WATERCOURSES RESTORED, ENHANCED OR CREATED (must provide acres): 0 acres

DATE RECEIVED:

### PART III: To Be Completed By The DEEP

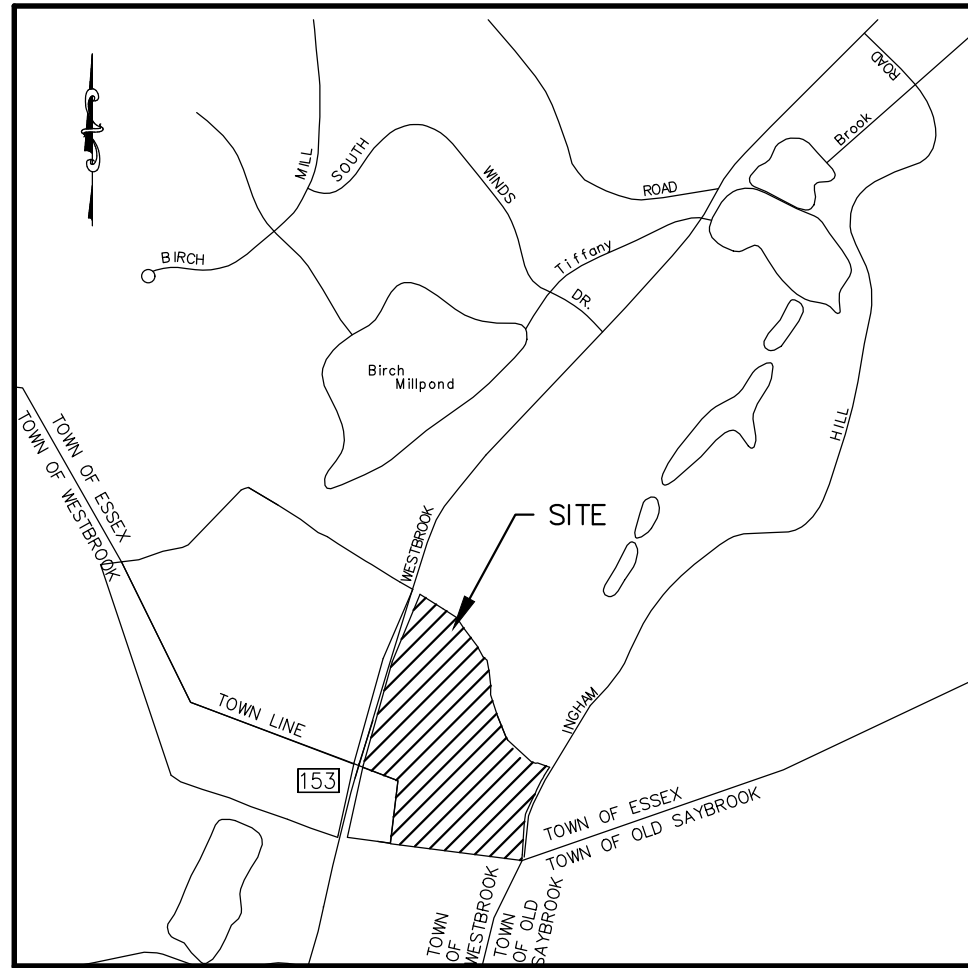
DATE RETURNED TO DEEP:

FORM COMPLETED: YES NO

FORM CORRECTED / COMPLETED: YES NO



DATE	REVISION	CK.



LOCATION MAP  
SCALE: 1"=2000'±



SOIL TYPES DATA TABLE

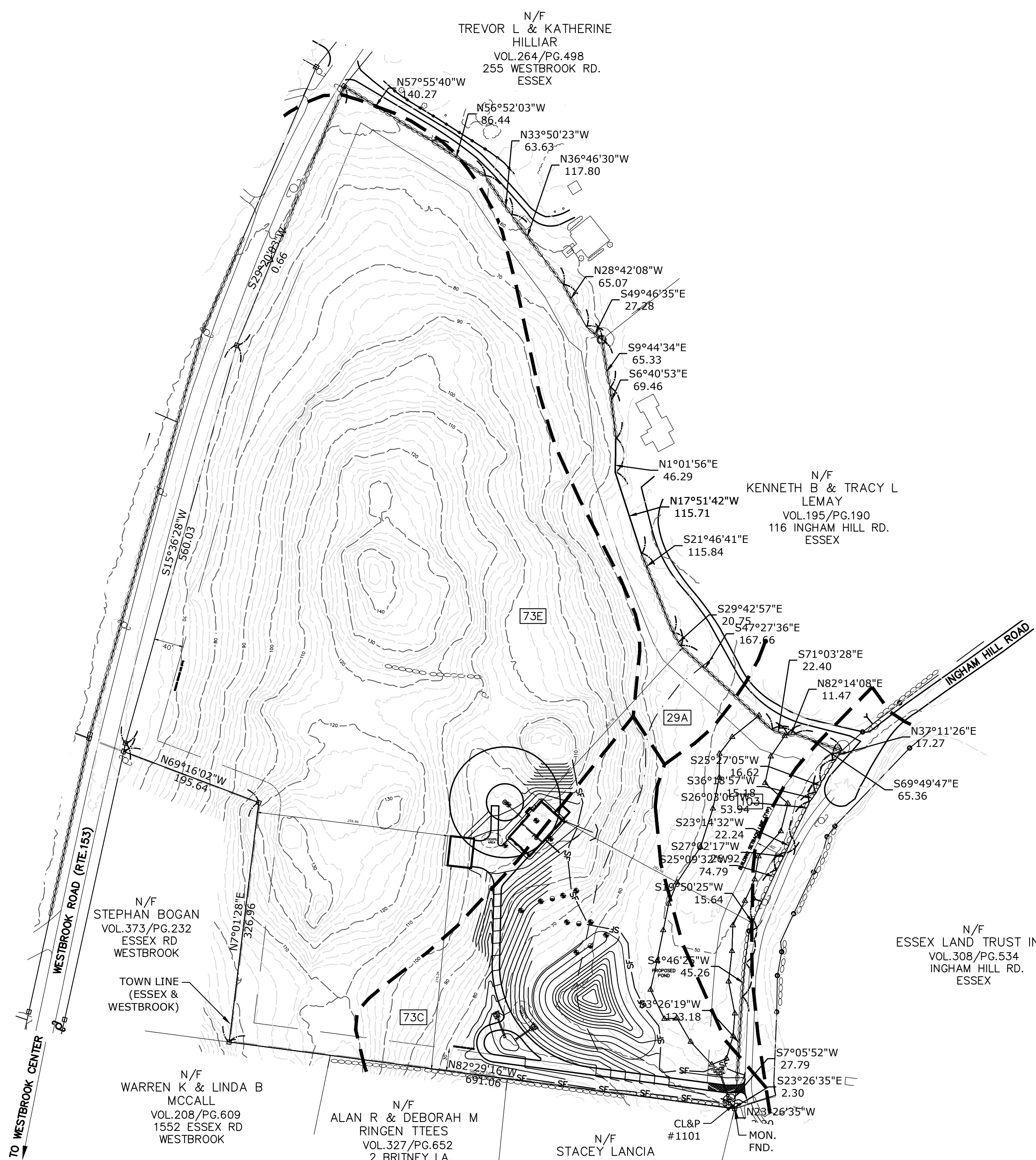
MAP LEGEND	MAP UNIT NAME
29A	Agawam fine sandy loam, 0-3% slopes
29B	Agawam fine sandy loam, 3-8% slopes
73C	Charlton-Chatfield complex, 0-15% slopes, very rocky
73E	Charlton-Chatfield complex, 15-45% slopes, very rocky
103	Rippowam fine sandy loam

TOWN OF ESSEX  
SITE DATA TABLE

ZONE:	RU	REQUIRED	EXISTING	PROPOSED
ITEM				
MIN. LOT WIDTH		150'		
MIN. LOT AREA		80,000 SF	776,379.96 SF	776,379.96 SF
MAX. BUILDING COVERAGE		15%	N/A	0.05% (3,810SF.)
FRONT SETBACK		40'	N/A	292.66'
SIDE SETBACK		30'	N/A	282.78'(N) / 276.24'(S)
REAR SETBACK		30'	N/A	259.96'
BUILDING HEIGHT		35'	N/A	<35'
WATER SUPPLY			N/A	ON SITE
SEWAGE DISPOSAL			N/A	ON SITE

LEGEND

- IRON PIPE/ROD TO BE SET
- MON □ MONUMENT
- DH ○ DRILL HOLE
- IP/IR ○ IRON PIPE/ROD
- CONC. CONCRETE
- GTD GRADE TO DRAIN
- FND FOUND
- FF FINISHED FLOOR
- EXIST. EXISTING
- TW TOP OF WALL
- CL&P# 1198 ○ EXISTING UTILITY POLE
- PT#1 ○ PERCOLATION TEST
- TH#1 ○ TEST HOLE
- 7.0 PROPOSED SPOT ELEVATION
- SOIL LIMITS LINE
- 80 --- TOWN LINE (ESSEX AND WESTBROOK)
- EXISTING CONTOURS
- SF --- SILT FENCE



THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-4 INCLUSIVE OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES AND "RECOMMENDED MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT". IT IS AN IMPROVEMENT LOCATION SURVEY INTENDED TO DEPICT THE EXISTING AND PROPOSED IMPROVEMENTS RELATIVE TO THE PROPERTY LINES AND ZONING SETBACK LINES SHOWN. PROPERTY/BOUNDARY HAS BEEN DETERMINED BY A RESURVEY WITH REFERENCE TO THE MAPS LISTED HEREON. THIS SURVEY IS SUBJECT TO SUCH FACTS AS AN INDEPENDENT RESURVEY MAY DISCLOSE.

PROPERTY BOUNDARY HAS BEEN ESTABLISHED BY A DEPENDENT RESURVEY WITH REFERENCE TO THE MAP(S) NOTED HEREON.

A.) OPEN SPACE PRESERVATION SUBDIVISION "BOUNDARY SURVEY MAP" PREPARED FOR RIVERSOUND DEVELOPMENT, LLC INGHAM HILL ROAD, ESSEX, CONNECTICUT SHEET 1 OF 1 SCALE: 1"=100' DATED 02-09-12 REVISED TO 02-28-14 BY DOANE-COLLINS ENGINEERING ASSOCIATES, LLC

THE SUBJECT PROPERTY CONTAINS 776,379.96 SF 17.82 AC  
HORIZONTAL ACCURACY CONFORMS TO CLASS A-2.

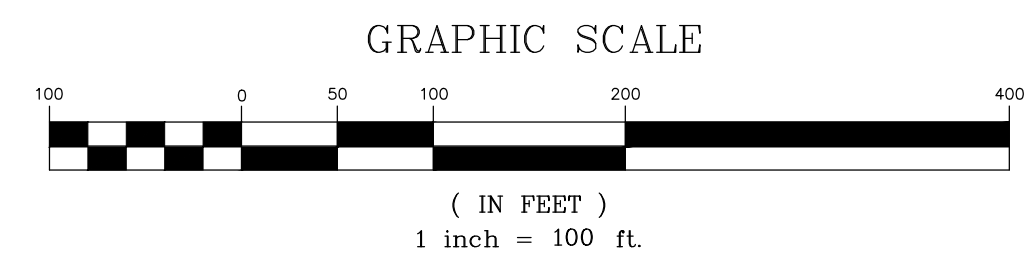
VERTICAL ACCURACY CONFORMS TO CLASS T-2 (ASSUM DATUM)

SUBJECT PROPERTY IS RECORDED IN TOWN OF ESSEX LAND RECORDS BOOK 94, PG. 12

THIS SITE IS NOT LOCATED WITHIN A FLOOD ZONE PER FIRM COMMUNITY PANEL NUMBER 09007C 1333 G MAP EFFECTIVE DATE 08/28/2008

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

*Robert L. Doane, Jr.*  
ROBERT L. DOANE, JR.  
CONN. P.E. & L.S. LIC. NO. 11463

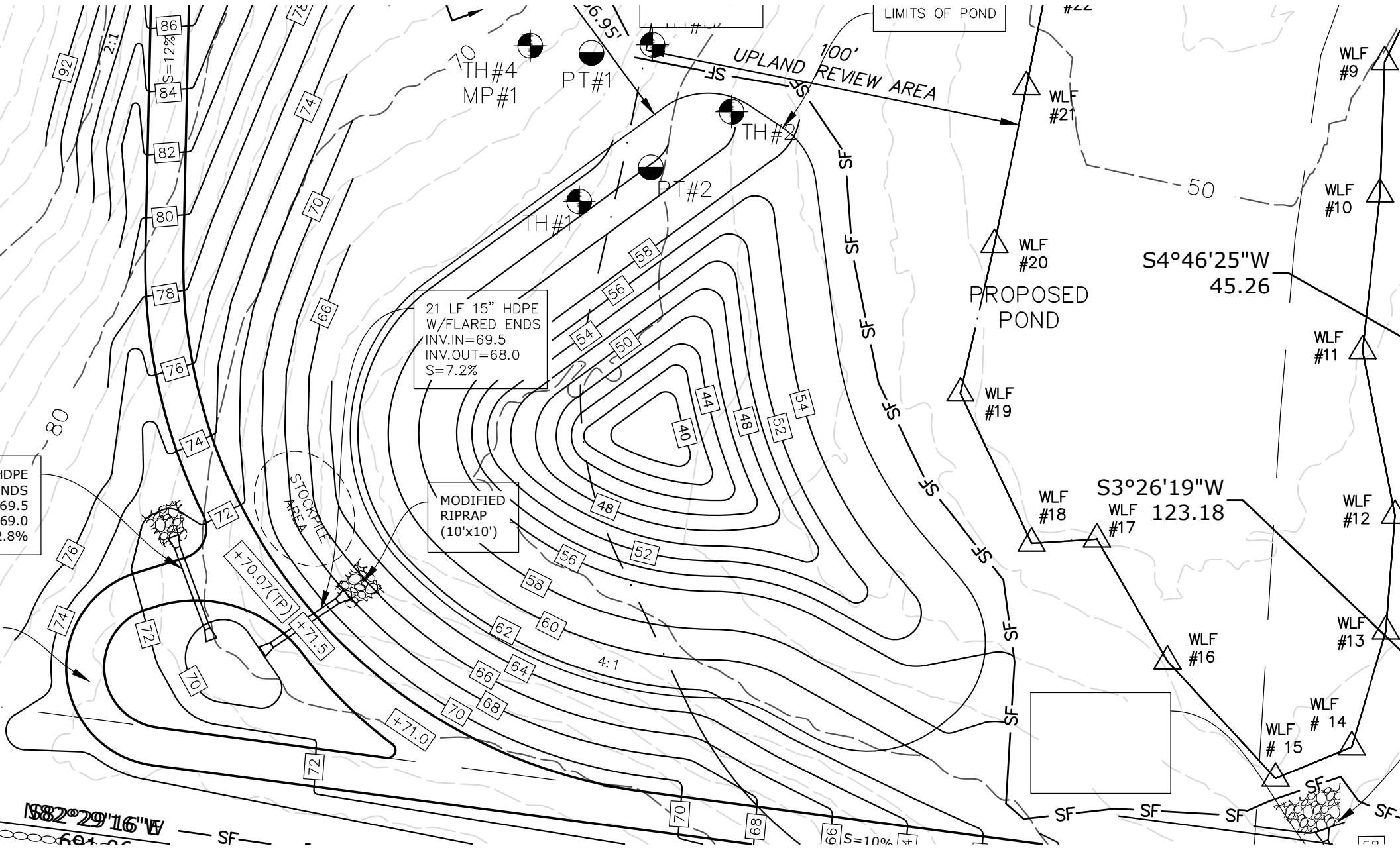


MAP #94 LOT #12  
**DOANE ENGINEERING**  
CIVIL ENGINEERING AND LAND SURVEYING  
P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409  
TEL: (860)767-0138, FAX: (860)767-9104

SITE PLAN  
PREPARED FOR  
GREG AND MIKAELA ZITO  
#118 INGHAM HILL ROAD, ESSEX, CONNECTICUT

SCALE: 1"=100'	DATE: 05/25/23	SHEET NO.: 1 OF 3	IDENT. NO.:
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FILE: \ADMIN\WORK\ESSEX\INGHAM HILL ROAD\2023\2023-PBL-05-25-23.dwg



21 LF 15" HDPE  
W/FLARED ENDS  
INV.IN=69.5  
INV.OUT=68.0  
S=7.2%

MODIFIED  
RIPRAP  
(10'x10')

LIMITS OF POND

UPLAND REVIEW AREA

PROPOSED POND

$S4^{\circ}46'25''W$   
45.26

$S3^{\circ}26'19''W$   
WLF #17 123.18

$S82^{\circ}29'16''W$   
69.1

HDPE  
INVS  
69.5  
69.0  
7.8%

TH#4  
MP#1

PT#1

TH#2

PT#2

TH#1

WLF #21

WLF #9

WLF #10

WLF #20

WLF #11

WLF #19

WLF #18

WLF #12

WLF #13

WLF #16

WLF #14

WLF #15

S=10%

4:1

S=12%

2:1

+70.07(P)

+71.5

+71.0

07

89

88

50

6.95'

86

84

82

80

78

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DATE	REVISION	CK.

- CONSTRUCTION SEQUENCE (SANITARY SYSTEM)
- NOTIFY TOWN HEALTH DEPARTMENT AND THE ENGINEER 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. NO PORTION OF THE SYSTEM WILL BE COVERED WITHOUT INSPECTION AND APPROVAL BY THE ENGINEER OR THE SANITARIAN.
  - PLACE SILT FENCE AS SHOWN ON THE DRAWING AND IN THE DETAIL.
  - REMOVE ALL TREES, STUMPS AND DELETERIOUS MATERIAL FROM SYSTEM AREA.
  - STOCKPILE TOPSOIL FOR REUSE.
    - DO NOT STOCKPILE TOPSOIL IN SANITARY SYSTEM AREA.
    - DO NOT REMOVE SUBSOIL.
  - ENGINEER/LAND SURVEYOR SHALL FIELD STAKE THE PROPOSED SYSTEM PRIOR TO INSTALLATION. ADDITIONAL A BENCH MARK SHOULD BE SET AT THE TIME OF STAKEOUT.
  - INSTALL SEPTIC SYSTEM AS SHOWN.
    - IF SOIL CONDITIONS OTHER THAN THOSE SHOWN IN THE SOIL LOGS ARE ENCOUNTERED DURING THE INSTALLATION OF THE SANITARY SYSTEM, THE DESIGN ENGINEER OR THE SANITARIAN SHALL BE NOTIFIED AND THE WORK WILL BE HALTED PENDING REVIEW OF THOSE CONDITIONS. IF NECESSARY THE SANITARY SYSTEM SHALL BE REVISED.
    - A MINIMUM OF 4 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND LEDGE. A MINIMUM OF 1.5 FEET MUST BE MAINTAINED BETWEEN THE BOTTOM OF THE SYSTEM AND SEASONAL HIGH GROUNDWATER.
  - DO NOT BACKFILL ANY PORTION OF THE SANITARY SYSTEM UNTIL INSPECTED BY THE SANITARIAN AND UNTIL A "RECORD" SURVEY HAS BEEN COMPLETED.
  - REPLACE TOPSOIL, GRADE, SEED AND MULCH ALL DISTURBED AREAS.
  - MAINTAIN SYNTHETIC FILTER BARRIER UNTIL ALL DISTURBED AREAS ARE STABILIZED.

- SANITARY SYSTEM NOTES:
- NO LARGE CAPACITY TUBS (> 100 GALLON CAPACITY) ARE PLANNED AND WILL NOT BE PERMITTED IN THE PROPOSED RESIDENCE.
  - NO WATER TREATMENT SYSTEM WASTE WATER SHOULD BE DISCHARGED TO THE SEPTIC SYSTEM.
  - A GARBAGE GRINDER (DISPOSAL) IS PROPOSED AND THE SEPTIC TANK HAS BEEN INCREASED IN SIZE TO A 1,500 GALLON TANK.
  - WATER SUPPLY SHALL BE BY AN INDIVIDUALLY DRILLED WELL.
  - ALL SOLID PIPING AFTER THE SEPTIC TANK TO BE 4" PVC ASTM D 3034, SDR 35.
  - FILTER FABRIC SHALL BE SELECTED FROM THE FOLLOWING TABLE:

APPROVED FILTER FABRICS FOR COVERING STONE AGGREGATE

MANUFACTURE	DESIGNATION NUMBER
AMERICAN ENGINEERING FABRICS	AEF-480
BRADLEY INDUSTRIAL TEXTILE	PHENOIX LJOUMA
CARTHAGE MILLS	M35
CULTEC	410
DUPONT	SF20
ENGINEERED SYNTHETIC PRODUCTS	TNS R020
GEO FABRICS	GF 150
L&M SUPPLY COMPANY	L&M 231
MIRAFI	65304 (4' WIDE), 65303 (3' WIDE)
SKAPS INDUSTRIES	SKAPS GT 120
SRW PRODUCTS	SRW PRODUCTS DF1
TERRA TEX	SRW PRODUCTS DF2
TYPAR	S01.5, P01.5
US FABRIC INC.	3151, 3201, US 1.5 CT

- NO DEVIATION FROM THIS PLAN WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER AND SANITARIAN.
- SEPTIC TANK CONSTRUCTION JOINTS SHALL BE SEALED WITH ASPHALT CEMENT. ALL PIPE CONNECTIONS TO THE SEPTIC TANK AND DISTRIBUTION BOXES SHALL BE SEALED WITH A POLYETHYLENE GASKET ("POLY-LOK" OR APPROVED EQUIV.)
- SEPTIC TANK AND BAFFLES SHALL CONFORM TO SECTION V.A.1 TECHNICAL STANDARDS OF THE STATE HEALTH CODE.
- SEPTIC TANK SHALL BE TWO COMPARTMENT TANK WITH HEAVY DUTY STEEL HANDLES FOR MANHOLE ACCESS COVERS AND GAS BAFFLES INSTALLED ON OUTLET PIPING. SEPTIC TANK TO BE EQUIPPED WITH AN APPROVED NON-BYPASS EFFLUENT FILTER AT THE OUTLET. SEE TABLE BELOW.

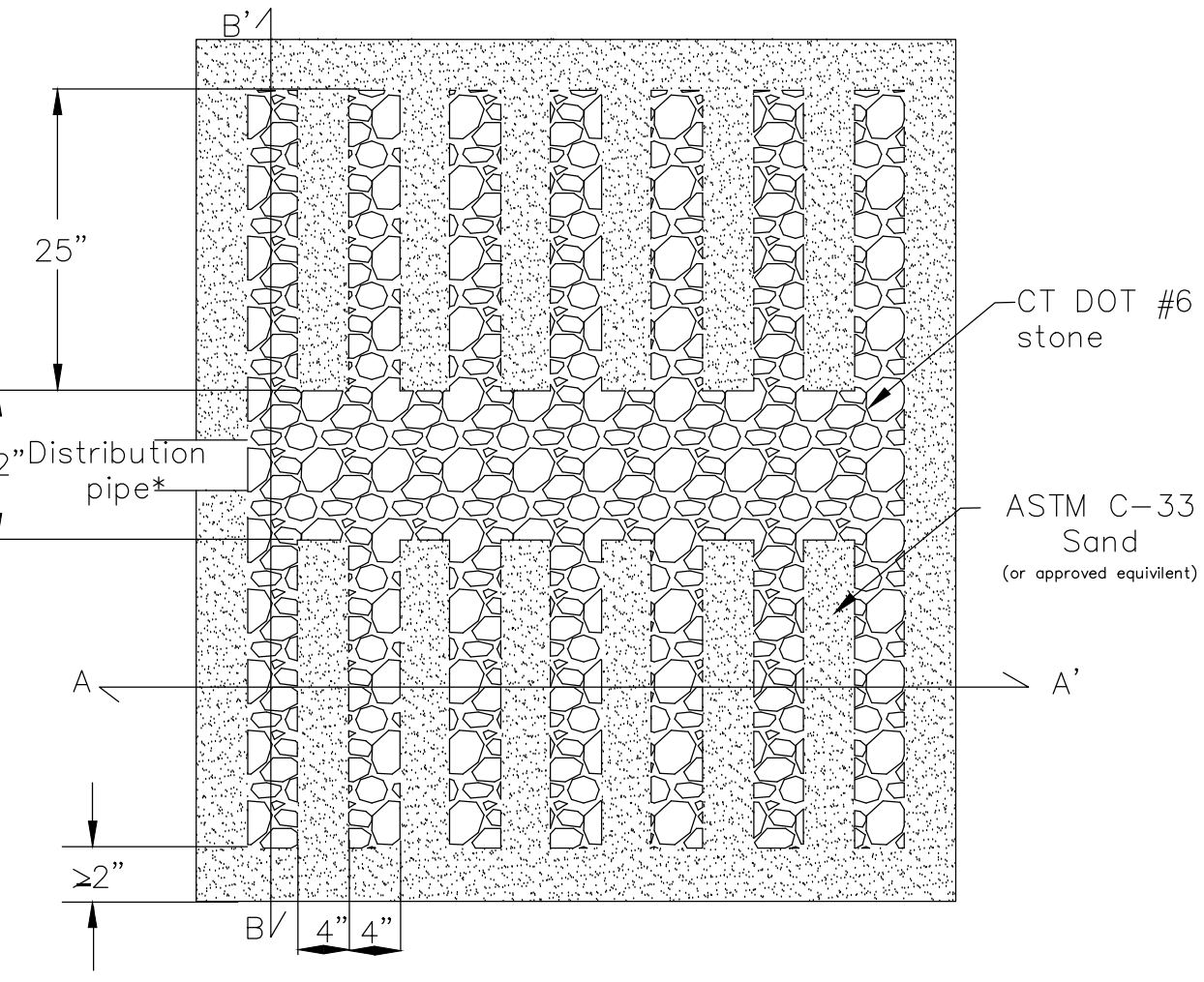
APPROVED SEPTIC TANK EFFLUENT FILTERS

MANUFACTURER	MODEL
BEAR ONSITE	ML2-416, ML2-920, ML3-910, ML3-916, ML3-925, ML3-932
BIO-MICROBICS	Sanitee Series, ST 416, ST 418, ST 818, ST 838, ST 1618, ST 1638
BOWCO INDUSTRIES	EF-235
GAG-SIMTECH	STF-110, STF-110-7R, STF-110-6W, STF-110-8B
NORWECO	BIO-KINETIC BK2000
ORENCO SYSTEMS	FT0444-36, FT0854-36, FT1254-36, FT1554-36
POLYLOK	PL-68, PL-122, PL-525, PL-625
PREMIER TECH	EFT-080
RISSEY PLASTICS	45 - CLIK N-STICK
TUF-TITE	EF-4, EF-6
ZABEL	A100, A300, A1800, A1801, A1800-HIP, A300-HIP, A1800-HIP, A1801-HIP, A600-12, A600-8, WW1 (170-0078), WW4 (5000-0007)
ZOELLER/CLARUS	

- STONE AGGREGATE MEANS BROKEN STONE, CRUSHED STONE, OR SCREENED GRAVEL MEETING DEPARTMENT OF TRANSPORTATION FORM 816 SPECIFICATION M3.01 FOR NO. 4 OR NO. 6 STONE (AS SHOWN BELOW OR LATEST SPECIFICATION). STONE AGGREGATE SHALL BE FREE OF SILT, DIRT OR DEBRIS AND SHALL SHOW A LOSS OF ABRASION OF NOT MORE THAN 50 PERCENT USING AASHTO METHOD T-96.

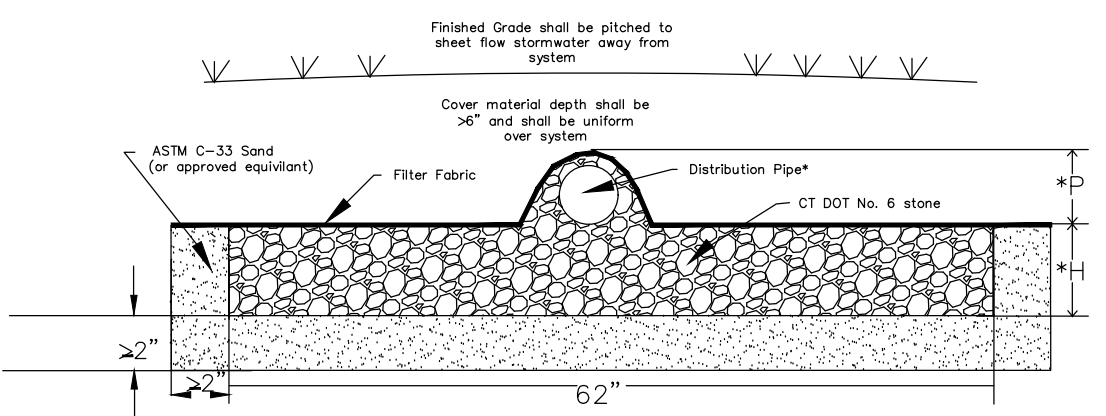
SIEVE SIZE	NO. 4 STONE AGGREGATE (A.K.A. 1" STONE) PERCENT PASSING (by weight)	NO. 6 STONE AGGREGATE (A.K.A. 3/4" STONE) PERCENT PASSING (by weight)
2 - INCH	100	N/A
1.5 INCH	90-100	N/A
1 INCH	20-55	100
3/4 INCH	0-15	90-100
1/2 INCH	N/A	20-55
3/8 INCH	0-5	0-15
#4	N/A	0-5
#40	0-3	0-3
#200	0-15	0-15

- ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS, HAVE RISER COVERS THAT WEIGHS AT LEAST 59 LBS. AND/OR INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO THE TANK. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.



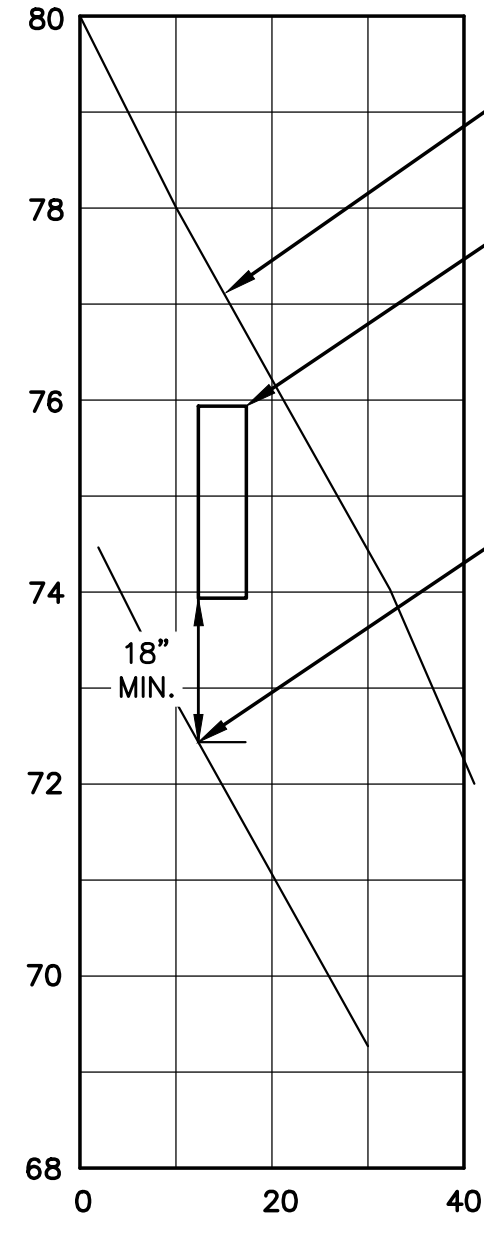
\*3" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications  
 0.75" min. I.D., ASTM D-2665, SCH 40 PVC pipe for pressure applications

GEOMATRIX GST LEACHING SYSTEM  
 Plan View  
 N.T.S.  
 12" (GST6212)

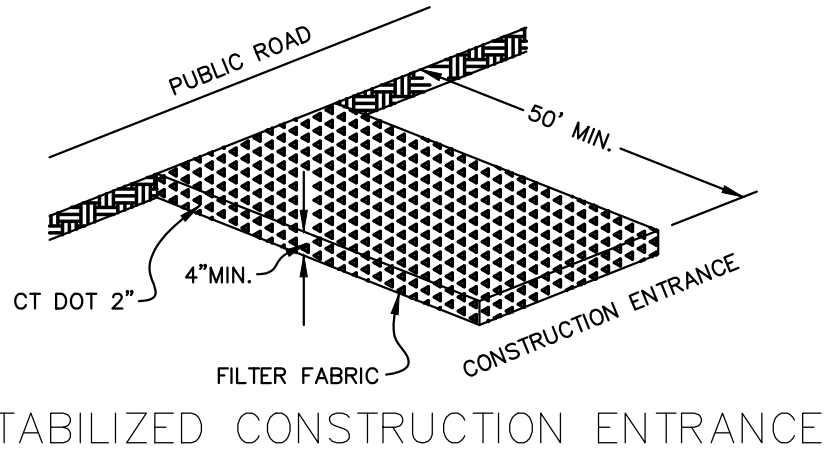


\*H=6" (GST6206) \*P=2" - 5.5"

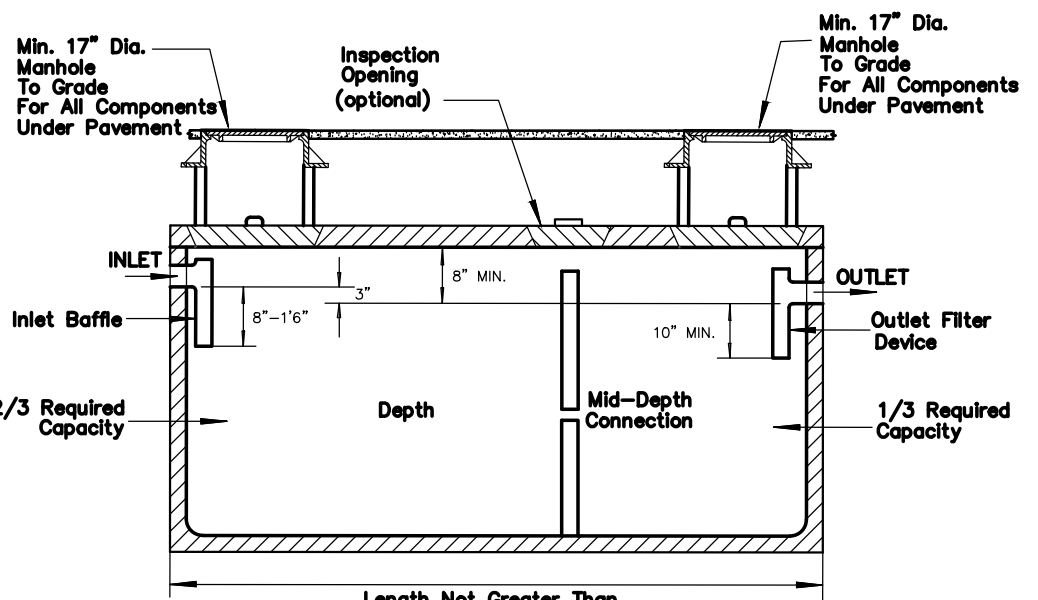
GEOMATRIX GST LEACHING SYSTEM  
 B-B' CROSS SECTION  
 N.T.S.



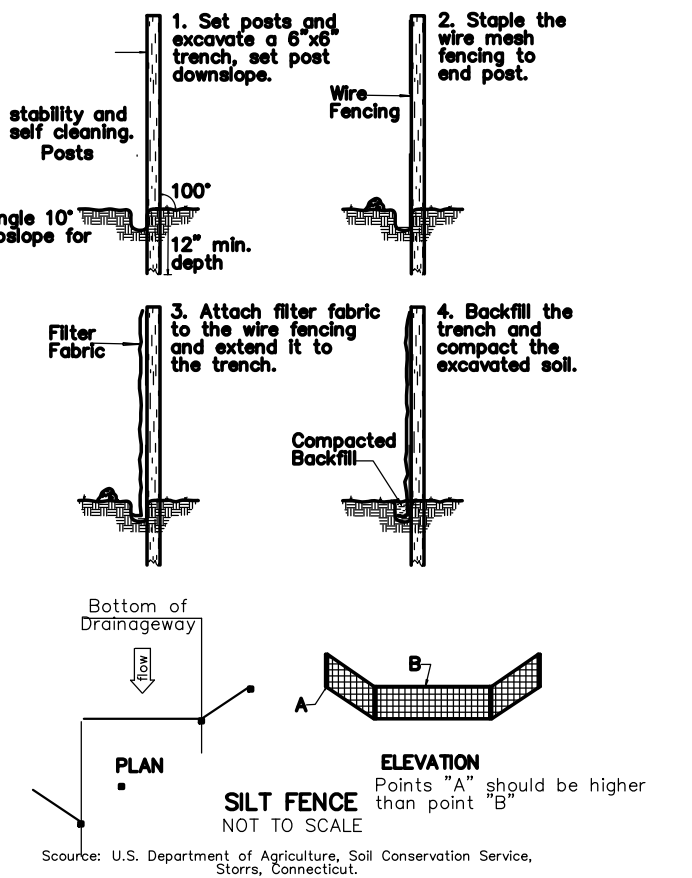
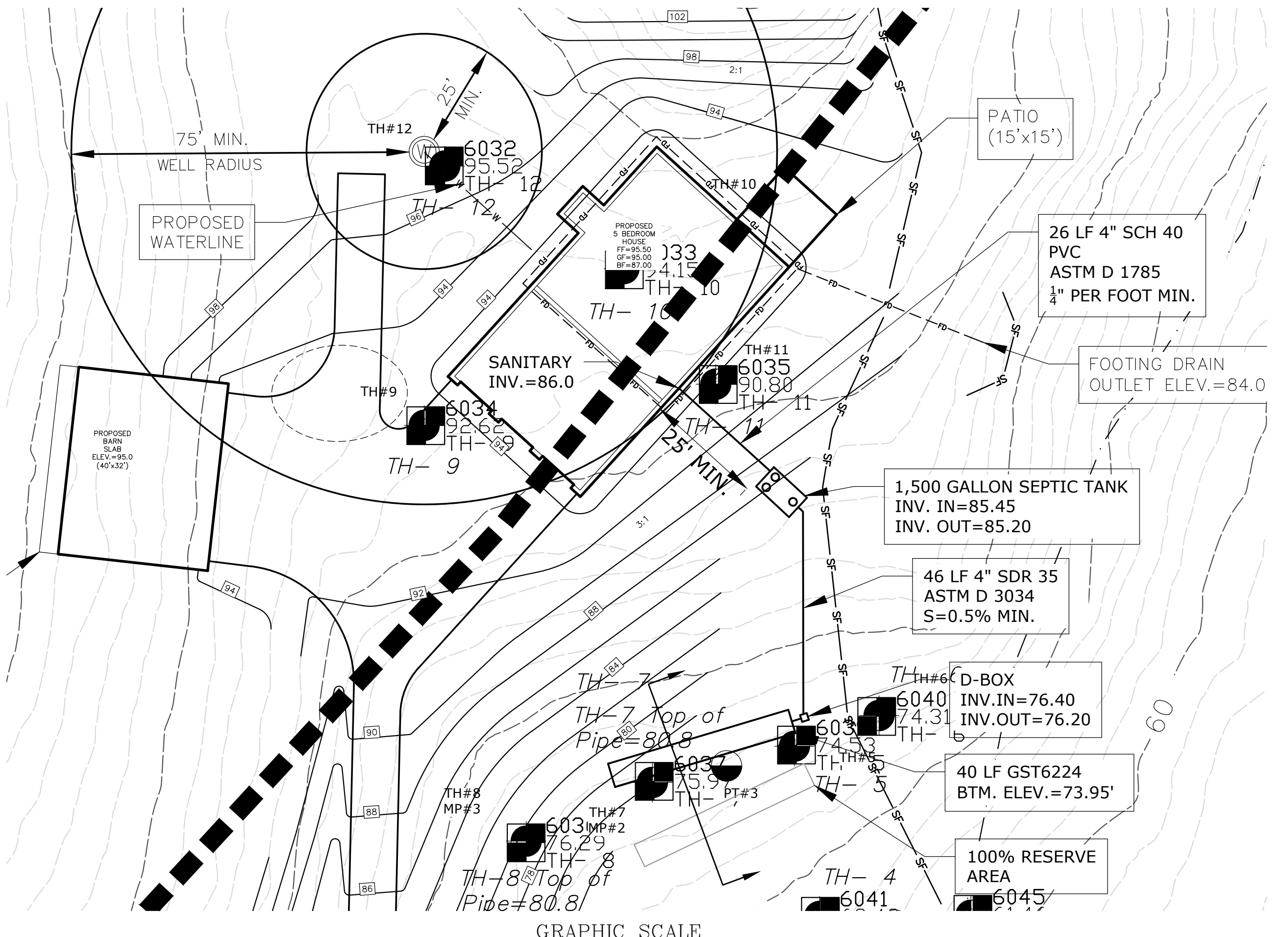
SECTION A-A  
 SANITARY SYSTEM X-SECTION  
 HORZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" = 2'



STABILIZED CONSTRUCTION ENTRANCE



TYPICAL SEPTIC TANK



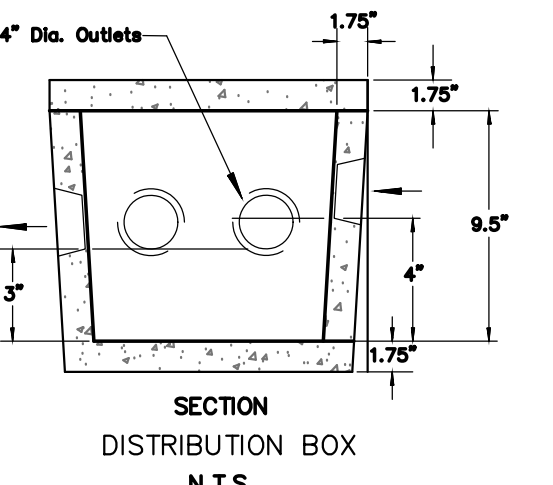
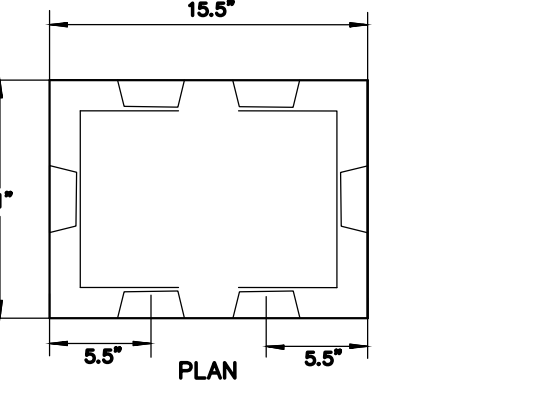
SILT FENCE  
 NOT TO SCALE  
 Source: U.S. Department of Agriculture, Soil Conservation Service, State, Connecticut.

Test Hole Data  
 Performed by Doane Engineering & Don Mitchell, R.S., Town of Essex ON 2/1/23

TH	Depth	Observations	Perc Test Data
TH 1	0 - 10" Topsoil	0 - 10" Orange brown silt loam with rocks(wet)	PT 1 2:50 - Pre-Soak 24" - Depth 3:50 - Fill
	10 - 32"	Grey very fine silty sand	Time Depth Min./Inch 3:50 - 3.25 4:00 - 5.75 4.0 4:10 - 7.75 5.0 4:20 - 10.75 3.3 4:30 - 12.5 1.75
	32 - 64"	Grey very fine silty sand turning to coarse sand and gravel	4:40 - 13.75 8.0 4:50 - 14.75 10.0
TH 2	0 - 14"	Brown silt loam, some gravel (wet)	Perc Rate = 0 - 10.0 min./inch
	14 - 37"	Grey very fine sand turning to coarse sand and gravel	PT 2 2:50 - Pre-Soak 24" - Depth 3:50 - Fill
	37 - 62"	Grey very fine sand turning to coarse sand and gravel, some stones (not tight)	Time Depth Min./Inch 3:50 - 3.0 4:00 - 4.5 1.8 4:10 - 12.0 2.9 4:20 - 15.25 3.1 4:30 - 16.0 13.3 4:40 - 17.75 5.7 4:50 - 18.75 10.0
TH 3	0 - 12"	Topsoil	Perc Rate = 10.1 - 20.0 min./inch
	12 - 45"	Brown silty fine sandy loam	PT 3 2:50 - Pre-Soak 24" - Depth 3:50 - Fill
	45 - 69"	Grey coarse sand, gravel, and rocks	Time Depth Min./Inch 3:50 - 8.25 4:10 - 13.25 2.0 4:20 - 16.5 3.1 4:30 - 20.5 2.5 4:40 - 23.5 (DRY) 3.3 4:50 - 11:35
TH 4	0 - 6"	Topsoil	Perc Test Data Performed by Doane Engineering on 4/18/23
	6 - 33"	Brown silty fine sandy loam	PT 3 9:30 - Pre-Soak 24" - Depth 10:35 - Fill
	33 - 72"	Gray well graded sand and gravel, some stones (not tight)	Time Depth Min./Inch 10:35 - 8.25 10:45 - 13.25 2.0 11:05 - 16.5 3.1 11:15 - 20.5 2.5 11:25 - 23.5 (DRY) 3.3 11:35 -
TH 5	0 - 9"	Topsoil	Perc Rate = 0 - 10.0 min./inch
	9 - 44"	Brown fine sandy loam	PROPOSED HOUSE SANITARY SYSTEM DESIGN: 5 BEDROOM HOUSE DESIGN PERCOLATION RATE = 0 - 10.0 MIN/IN REQUIRED EFFECTIVE LEACHING AREA = 660 SF
	44 - 78"	Olive gray well graded sand and gravel, some stones (not tight)	PROVIDE 1-40 FT ROW OF GST 6224 EFFECTIVE LEACHING AREA PROVIDED 40 LF X 18.1 SF/LF = 724 SF PROVIDE 1,500 GALLON SEPTIC TANK PROVIDE 100% RESERVE AREA DEPTH TO RESTRICTIVE LAYER 56" (TH#4) ROOTS OBSERVED AT TEST HOLES 1 THRU 8 HF X FF X PF HF = 10 FF = 2.0 PF = 1.0 10 X 2.0 X 1.0 = 40.0
TH 6	0 - 12"	Topsoil	
	12 - 30"	Brown fine sandy loam	
	30 - 76"	Gray glacial till with rocks (not compact)	
TH 7	0 - 10"	Topsoil	
	10 - 24"	Orange brown fine sand, some silt	
	24 - 50"	Grayish tan medium sand	
	50 - 70"	Gray sand and gravel with stones	
TH 8	0 - 12"	Topsoil	
	12 - 33"	Brown silty fine sandy loam (wet)	
	33 - 63"	Gray sands and gravel	

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

ROBERT L. DOANE, JR.  
 CONN. P.E. & L.S. LIC. NO. 11463



MAP #94 LOT #012

**DOANE ENGINEERING**  
 CIVIL ENGINEERING AND LAND SURVEYING  
 P.O. BOX 113 CENTERBROOK, CONNECTICUT 06409  
 TEL: (860)767-0138, FAX: (860)767-9104

DETAIL SHEET  
 PREPARED FOR  
**GREG AND MIKAELA ZITO**  
 #118 INGHAM HILL ROAD, ESSEX, CONNECTICUT

SCALE: N.T.S.	DATE: 05/25/23	SHEET NO.: 3 OF 3	IDENT. NO.:
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