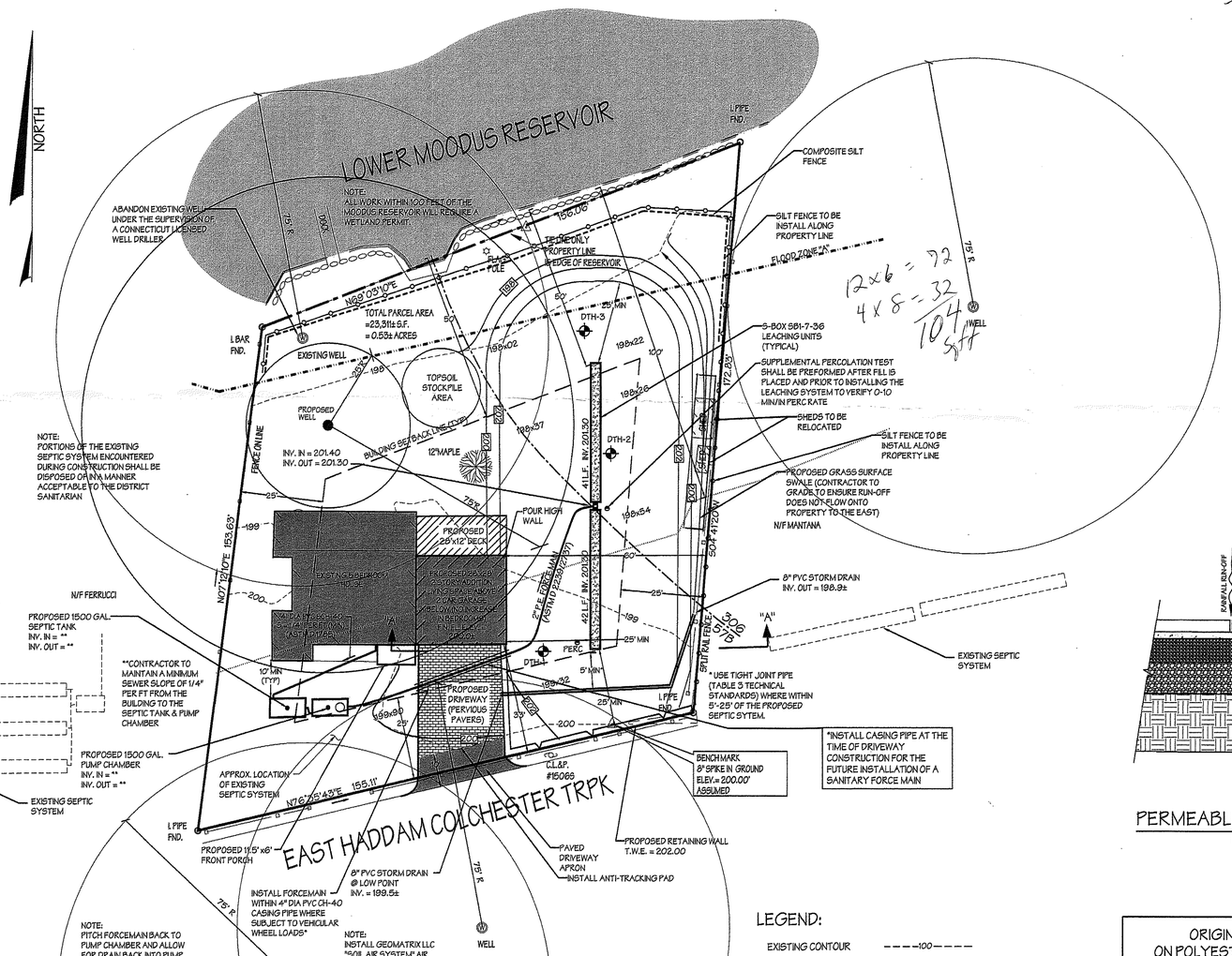
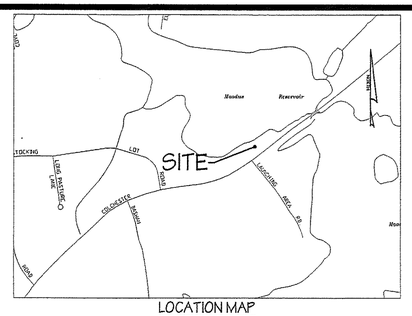
4742

ZONING REQUIREMENT TABLE ("L" ZONING DISTRICT)

ITEM	ZONING MIN./MAX	EXISTING	PROP.
LOT SIZE	1 ACRE MINIMUM	0.53 ACRES *	0.53 AC *
LOT WIDTH	150 FOOT MINIMUM	155 FEET	155 FEET
FRONT YARD	25 FEET MINIMUM	42 FEET	34 FEET
SIDE YARD	25 FEET MINIMUM	11'/86 FEET	11'/59 FEET
REAR YARD	50 FEET	58 FEET	70 FEET
BLDG. COVERAGE	10% MAXIMUM	7.2 %	12.7 % **
LOT IMPERV.COVER	15% MAXIMUM	7.2 %	12.7%
BUILDING HEIGHT	24 FEET MAXIMUM	<24 FEET	<24 FEET

* PRE-EXISTING NON-CONFORMING LOT OF RECORD
** ZONING VARIANCE OBTAINED ON 4-26-18





480

23,087
2932
+480
3412

13.5%
12.7%

BASIS FOR SEPTIC SYSTEM DESIGN
EFFECTIVE LEACHING SYSTEM AREA REQUIRED BY THE STATE HEALTH CODE TECHNICAL STANDARDS FOR A 5 BEDROOM HOUSE AND 0.1 - 10.0 MINUTES PER INCH PERCOLATION RATE = 660 S.F.
EFFECTIVE LEACHING SYSTEM AREA PROVIDED 85 L.F. OF 5 BOX S81-7-36 @ 8.2 S.F./L.F. = 680.6 S.F.

MINIMUM LEACHING SYSTEM SPREAD (M.L.S.S.)
MLSS = HYDRAULIC FACTOR X FLOW FACTOR X PERCOLATION FACTOR
HYDRAULIC FACTOR = 66
(RECEIVING SOIL DEPTH = 24" (SYSTEM ENTIRELY IN SELECT FILL)
(HYDRAULIC GRADIENT = <1.0 %)
FLOW FACTOR = 2.0 (5 BEDROOMS)
PERCOLATION FACTOR = 1.25 (10.1 TO 20.0 MINUTES PER INCH)
MLSS = 66 X 2.0 X 1.25 = 165 L.F.
LSS PROVIDED = 85 L.F. X 2 = 166 L.F. (RADIAL FLOW)

SOIL TEST RESULTS (10-24-17)
CONDUCTED BY: STEVE KNAUF, CHATHAM HEALTH DISTRICT AND NEMERGUT CONSULTING

273 EAST HADDAM- COLCHESTER TPKE. EAST HADDAM CONNECTICUT

DEEP TEST HOLE 1
0"- 9" TOPSOIL AND FILL
9"- 26" ORIGINAL TOPSOIL LAYER
26"-42" GRAY LOAMY SAND
42"-84" RED-GRAY LOAMY SAND
NO REFUSAL
GROUNDWATER AT 42"

DEEP TEST HOLE 2
0"- 9" TOPSOIL AND FILL
9"- 27" ORIGINAL TOPSOIL LAYER
27"-67" GRAY LOAMY MEDIUM SAND
NO REFUSAL
GROUNDWATER AT 54"

DEEP TEST HOLE 3
0"- 34" TOPSOIL AND FILL
34"-44" ORIGINAL TOPSOIL LAYER
44"-84" LOAMY GRAY MEDIUM SAND
NO REFUSAL
GROUNDWATER AT 54"

PERCOLATION TEST NO. 1
AT DEEP TEST HOLE 1
11-15-17
HOLE DEPTH = 15"

TIME	READING	CHANGE	RATE
3:15	2 1/8	---	
3:25	3 4/8	1 3/8	7 2/8
3:35	4 1/8	5/8	16
3:45	4 6/8	5/8	16
3:55	5 3/8	5/8	16
4:05	5 7/8	4/8	20
4:15	6 4/8	5/8	16

PERCOLATION RATE = 10.1 TO 20.0 MINUTES PER INCH

MONITORING WELL NO. 1

DATE	EX GRADE TO GWT (FT)	GWT ELEVATION.	GWT SLOPE (%) MW1 TO MW2
10-27-17	1.42	198.00	0.23
11-01-17	1.38	198.04	0.07
11-07-17	1.44	197.98	-0.01
11-15-17	1.92	197.50	0.13
12-11-17	1.79	197.63	0.17
12-18-17	1.92	197.50	0.15
1-02-18	2.40	197.02	0.10
1-08-18	2.29	197.13	0.20
1-15-18	1.43	197.98	0.01

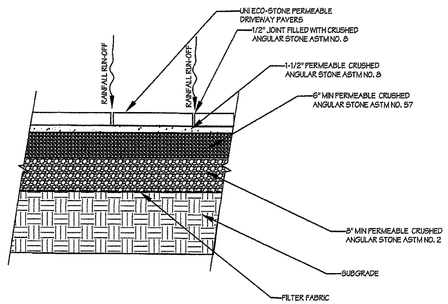
MONITORING WELL NO. 2

DATE	EX GRADE TO GWT (FT)	GWT ELEVATION.	GWT SLOPE (%) MW2 TO MW3
10-27-17	0.65	198.15	-0.05
11-01-17	0.71	198.08	0.00
11-07-17	0.82	197.98	0.01
11-15-17	1.21	197.58	0.15
12-11-17	1.06	197.73	0.22
12-18-17	1.20	197.59	0.19
1-02-18	1.71	197.08	0.11
1-08-18	1.54	197.25	0.11
1-15-18	0.80	197.99	-0.02

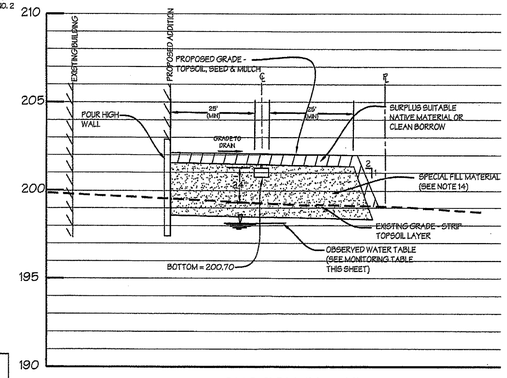
MONITORING WELL NO.3

DATE	EX GRADE TO GWT (FT)	GWT ELEVATION.
10-27-17	0.54	198.13
11-01-17	0.58	198.08
11-07-17	0.69	197.98
11-15-17	1.03	197.64
12-11-17	0.85	197.81
12-18-17	1.00	197.67
1-02-18	1.54	197.13
1-08-18	1.38	197.29
1-15-18	0.68	197.98

GENERAL NOTES:
1. THE TOTAL AREA OF THE PARCEL IS 0.53 acres +/-.
2. THE PARCEL IS LOCATED WITHIN THE "L" LAKE ZONING DISTRICT.
3. THE PARCEL IS IDENTIFIED ON THE TAX ASSESSOR'S MAPS AS MAP 67 LOT 8.
4. PROPERTY LINE AND TOPOGRAPHIC SURVEY INFORMATION TAKEN FROM A MAP ENTITLED "PROPERTY SURVEY AND TOPOGRAPHIC SURVEY PROPERTY OF FREDERICK P. MASOTTA, III & EILEEN MASOTTA #273 EAST HADDAM COLCHESTER TPKE, EAST HADDAM, CONNECTICUT" DATED SEPTEMBER 12, 2017 AS PREPARED BY ROBERT R. WEAVER, L.S.
5. THE PARCEL IS NOT LOCATED WITHIN A PUBLIC DRINKING WATER SUPPLY WATERSHED.
6. A PORTION OF THE PARCEL IS LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA.
7. THE PROPOSED LOT WILL BE SERVICED BY A PRIVATE WELL AND ON SITE SUBSURFACE SEWAGE DISPOSAL (SEPTIC) SYSTEM.
8. THE PARCEL DOES NOT LIE WITHIN AN AQUIFER PROTECTION ZONE.
9. THE PARCEL DOES NOT LIE IS NOT WITHIN THE GATEWAY CONSERVATION ZONE.
10. SOIL TYPES WERE TAKEN FROM N.R.C.S. WEB SOIL SURVEY MAPPING.



PERMEABLE PAVEMENT DETAIL
NOT TO SCALE



SECTION "A - A"
SCALE: 1"= 20' H. & 1"= 4' V.

LEGEND:

- EXISTING CONTOUR ---100---
- PROPOSED CONTOUR 102
- DEEP TEST HOLE
- PERCOLATION TEST
- SILT FENCE
- COMPOSITE SILT FENCE
- LIMIT OF UPLAND REVIEW ZONE
- FEMA FLOOD ZONE BOUNDARY
- N.R.C.S. SOIL TYPE BOUNDARY 306 / 57B

ORIGINAL INK ON POLYESTER FILM BY NEMERGUT CONSULTING 235 ROUTE 80 KILLINGWORTH, CT 06419

RECEIVED FOR FILING E. Haddam
DATE: June 14, 2018 @ 8:52 AM
MAP NO. 4742
Deborah Dewitt Town Clerk

APPROVED BY THE EAST HADDAM PLANNING AND ZONING COMMISSION
DATE: 6-12-18 CHAIRMAN/SECRETARY:
EXPIRATION DATE: 5/22/2023

NEMERGUT CONSULTING
235 ROUTE 80 - P.O. BOX 666
KILLINGWORTH, CONNECTICUT 06419
PHONE: 860.663.2384
NEMERGUTCONSULTING.COM

ROGER D. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 10008

JASON A. NEMERGUT
PROFESSIONAL ENGINEER
LIC. NO. 26088

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THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION UNLESS THE DESIGN ENGINEER'S RAISED PROFESSIONAL SEAL APPEARS ON THE PLAN; AND THE OWNER/CONTRACTOR HAS CONTACTED THE DESIGN ENGINEER TO VERIFY THAT THEY ARE IN POSSESSION OF THE LATEST APPROVED DESIGN PLANS.

SITE PLAN AND EROSION & SEDIMENT CONTROL PLAN

FREDERICK P. MASOTTA
273 EAST HADDAM COLCHESTER TPKE.
EAST HADDAM, CONNECTICUT

MAP: 67 LOT: 8

DATE: 2-15-18
DESIGNED BY: J.A.N.
CHECKED BY: R.D.N.
SCALE: 1" = 20'

CAD FILE: 423-18-03

NO.	DATE	REVISIONS
1	3/19/18	PROP. WELL
2	3/29/18	IWA COMMENTS
3	5/22/18	ADD. PZC SITE PLAN INFO
4	6/12/18	APPROVAL LETTERS

SHEET 1 OF 2