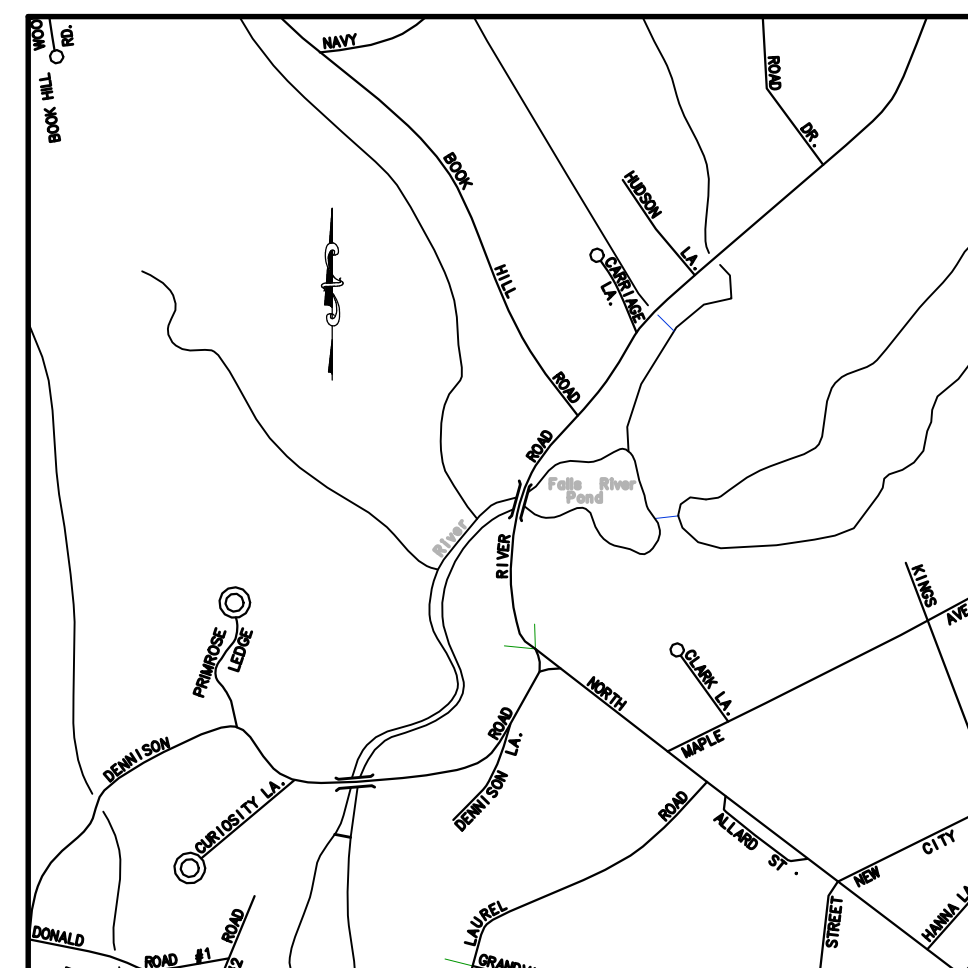
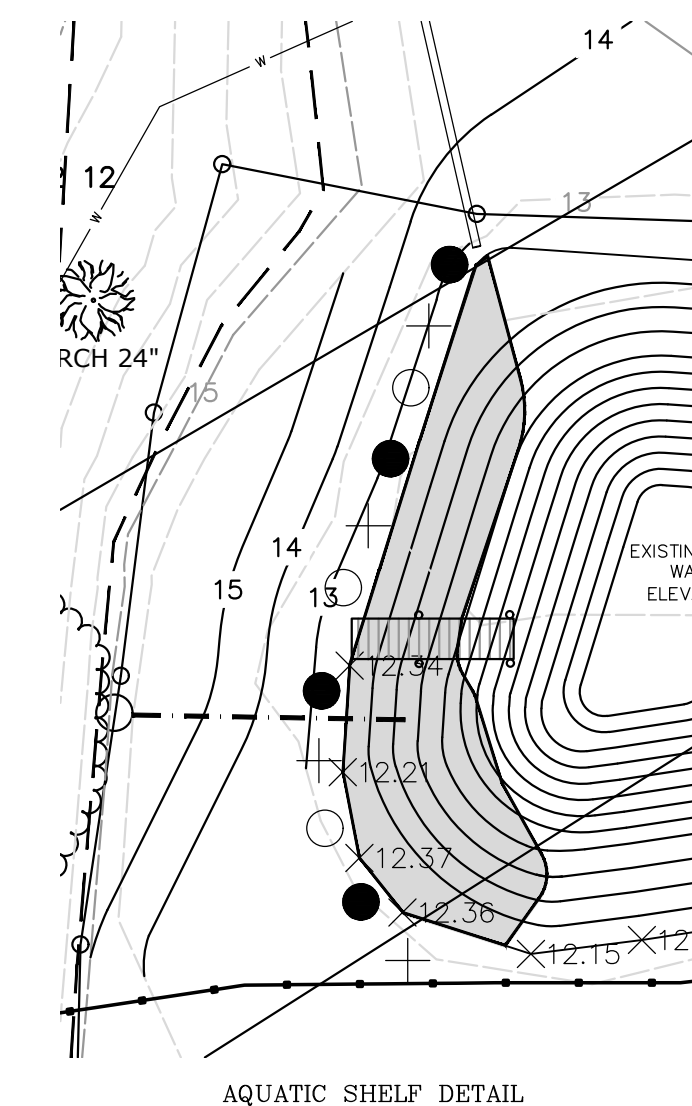


DATE	REVISION	CK.



LOCATION MAP
SCALE: 1"=1000'±



AQUATIC SHELF DETAIL



DISTRICT RU

ZONING COMPLIANCE CHART

ZONING REGULATION	REQUIRED/ALLOWED BY REGULATION	EXISTING	PROPOSED
MIN. LOT AREA	80,000 SF.	238,505.69 SF	238,505.69 SF
MIN. LOT WIDTH	150 Ft.	526.34'	526.34'
SIDE SETBACKS*	30 Ft.	NORTH 75.2'/SOUTH 301.1'	NORTH 75.2'/SOUTH 238.6'
		EAST 7.0'/WEST 322.0'	EAST 7.0'/WEST 322.0'
MAX. BUILDING COVERAGE	25%	1.57%	2.00%
MAX. BUILDING HEIGHT	35 Ft.	<35 Ft.	<35 Ft.
MAX. LOT COVERAGE	65%	3.82% (9,132.7 SF)	4.33% (10,332.7 SF)

* REAR LOTS - ALL LOT LINES OF A REAR LOT SHALL BE CONSIDERED SIDE LOT LINES.

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 PLAN INTENDED TO DEPICT THE EXISTING AND PROPOSED IMPROVEMENTS PROPERTY/BOUNDARY HAS BEEN DETERMINED BY A DEPENDENT RESURVEY WITH REFERENCE TO THE MAPS LISTED HEREON. THIS SURVEY IS SUBJECT TO SUCH FACTS AS AN INDEPENDENT RESURVEY MAY DISCLOSE.

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THE SUBJECT PROPERTY CONTAINS 238,506 SF 5.48 AC
HORIZONTAL ACCURACY CONFORMS TO CLASS A-2.

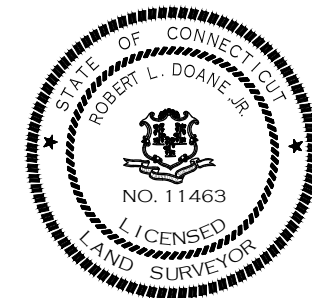
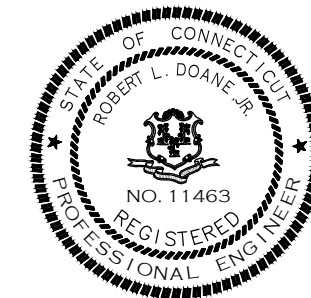
VERTICAL ACCURACY CONFORMS TO CLASS T-2 (NAV83 DATUM)

SUBJECT PROPERTY IS RECORDED IN TOWN OF ESSEX LAND RECORDS VOL. 342, PG 208

THIS SITE IS LOCATED WITHIN A FLOOD ZONE PER FIRM COMMUNITY PANEL NUMBER 090065 0332 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



- LEGEND**
- IRON PIPE/ROD TO BE SET
 - MON □ MONUMENT
 - IP ○ IRON PIPE/ROD
 - DH ○ 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
 - TH#1 ○ TEST HOLE
 - 7.01 PROPOSED SPOT ELEVATION
 - 100 --- EXISTING CONTOURS
 - SF --- SILT FENCE
 - PW --- PROPOSED WATERLINE

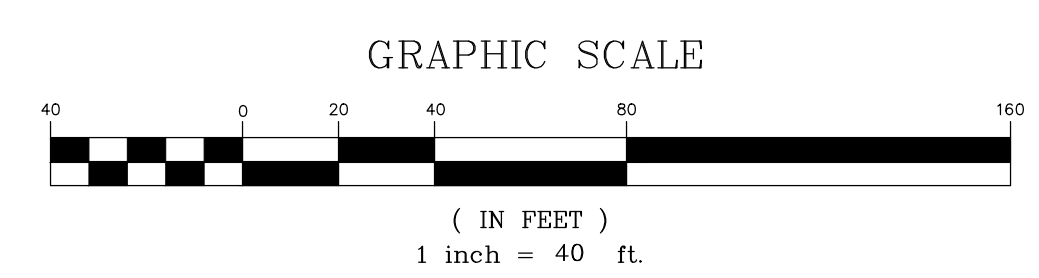
PLANTING LEGEND

HERBACEOUS PLANTS TO BE INSTALLED IN AN AQUATIC PLANT BED

SCIENTIFIC NAME	COMMON NAME	QUANTITY
SAGITTARIA LATIFOLIA	ARROWHEAD	100
PONTEDERIA CORDATA	PICKERAL WEED	200

— AREA TO BE PLANTED

SYMBOL	SCIENTIFIC NAME	COMMON NAME	HEIGHT
●	ILEX VERTICILLATA	WINTERBERRY	4'
○	CORNUS SERICEA	RED OSIER DOGWOOD	4'
+	VIBURNUM DENTATUM	ARROWWOOD	4'



MAP #18 LOT #002

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
MATTHEW & JEAN WALSTON
20 RIVER ROAD, ESSEX, CONNECTICUT

SCALE: 1"=40'	DATE: 07/25/22	SHEET NO.: 1 OF 2	IDENT. NO.:
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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 INDIVIDUAL 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	PHENOX LUOMA	
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' WDE).	
	65303 (3' WDE)	
SKAPS INDUSTRIES	SKAPS GT 120	
SRW PRODUCTS	SRW PRODUCTS DF1	
	SRW PRODUCTS DF2	
TERRA TEX	S01.5, P01.5	
TYPAR	3151, 3201	
US FABRIC INC.	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 EQUAL).
- 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-BY-PASS 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-SW, STF-110-8B
NORWECO	BIO-KINETIC BK2000
ORENCO SYSTEMS	FTD444-36 FT0854-36 FT1254-36 FT1554-36 FTJ0418
POLYLOK	PL-68, PL-122, PL-525, PL-625 GF 10-8, GF 10-16 EFT-080
PREMIER TECH	45 - CLIK N'STICK
RISSY PLASTICS	EF-4, EF-6
TUF-TITE	A100 A300 A1800 A1801
ZABEL	A100-HIP A300-HIP A1800-HIP A1801-HIP
ZOELLER/CLARUS	AS00-12, A600-S WW1 (170-0078) WW4 (5000-0007)

- STONE AGGREGATE MEANS BROKEN STONE, CRUSHED STONE, OR SCREENED GRAVEL MEETING DEPARTMENT OF TRANSPORTATION FORM 816 SPECIFICATION M.01.01 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.

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

- ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS, HAVE RISER COVERS THAT WEIGHS AT LEAST 50 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.

TEST HOLE DATA
PERFORMED BY THE TOWN OF ESSEX SANITARIAN
DON MITCHELL, MPH, RS. AND DOANE ENGINEERING ON
03/10/2022

TP 1

GROUNDWATER @15"
RESTRICTIVE: NOT SUITABLE

TP 2

0 - 5" TOPSOIL AND LEAF LITTER
5 - 17" BROWN MEDIUM TO COARSE SAND AND GRAVEL, LOOSE
17 - 32" LIGHT BROWN MEDIUM SAND, SOME GRAVEL
32 - 84" GREY BROWN MEDIUM SAND

NOTE: BOULDER IN MIDDLE OF HOLE
NO LEDGE OBSERVED
NO GROUNDWATER OBSERVED
ROOTS 24"(MOST), 60"(SOME)
MOTTLING : N/A *

TP 3

0 - 7" TOPSOIL AND LEAF LITTER
7 - 20" ORANGE TO RED BROWN FINE SANDY LOAM, SOME SILT
20 - 58" BROWN GRAVEL AND COARSE SAND
58 - 86" GREY MEDIUMSAND, SOME GRAVEL, SOME BOULDERS

NO LEDGE OBSERVED
NO GROUNDWATER OBSERVED
ROOTS AT 40"
MOTTLING : N/A *

* - SOME STAINING IN A COARSE LENS OF MATERIAL NOT CAUSED BY HIGH GROUNDWATER

GROUNDWATER TABLE : NEAR MAXIMUM

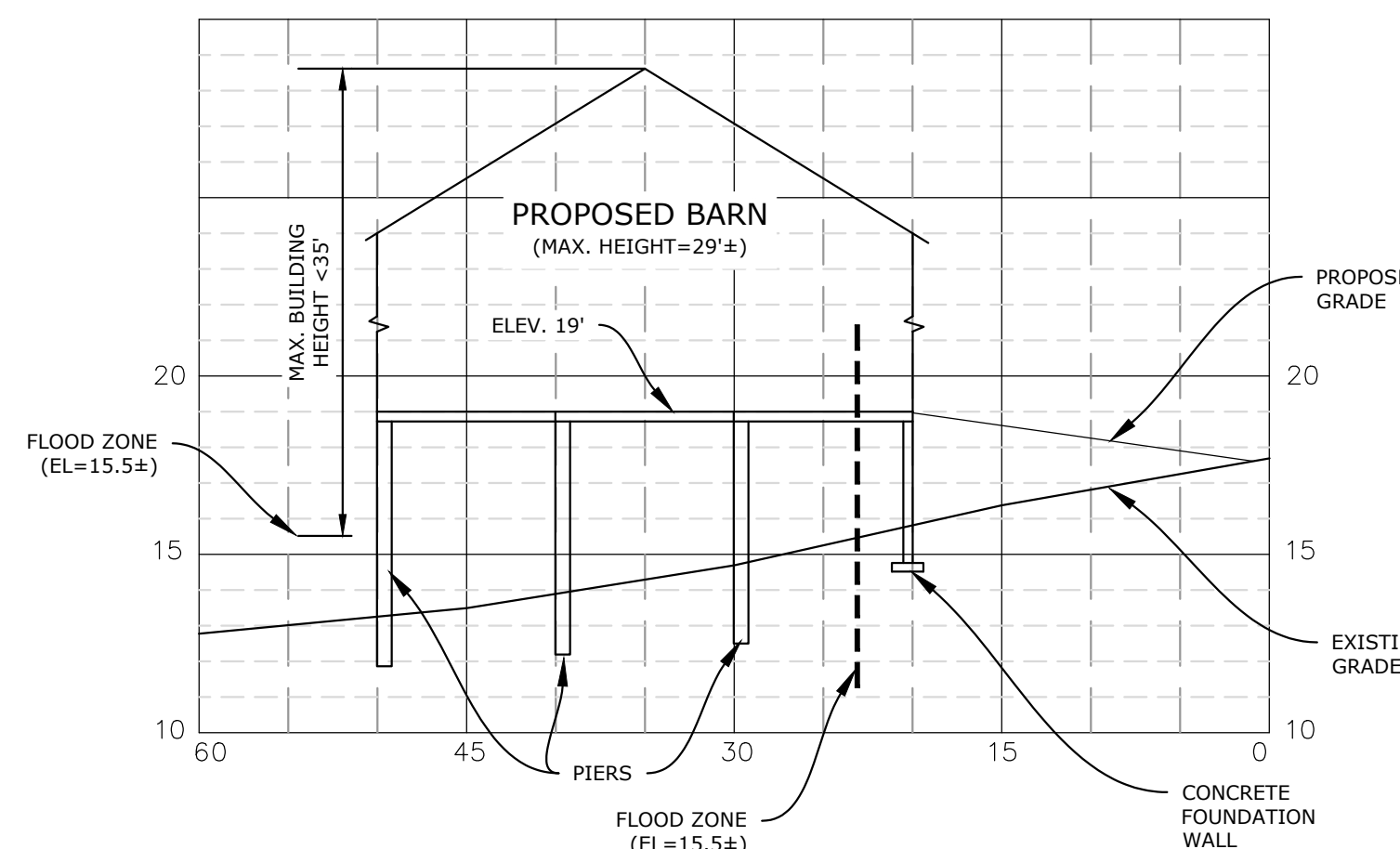
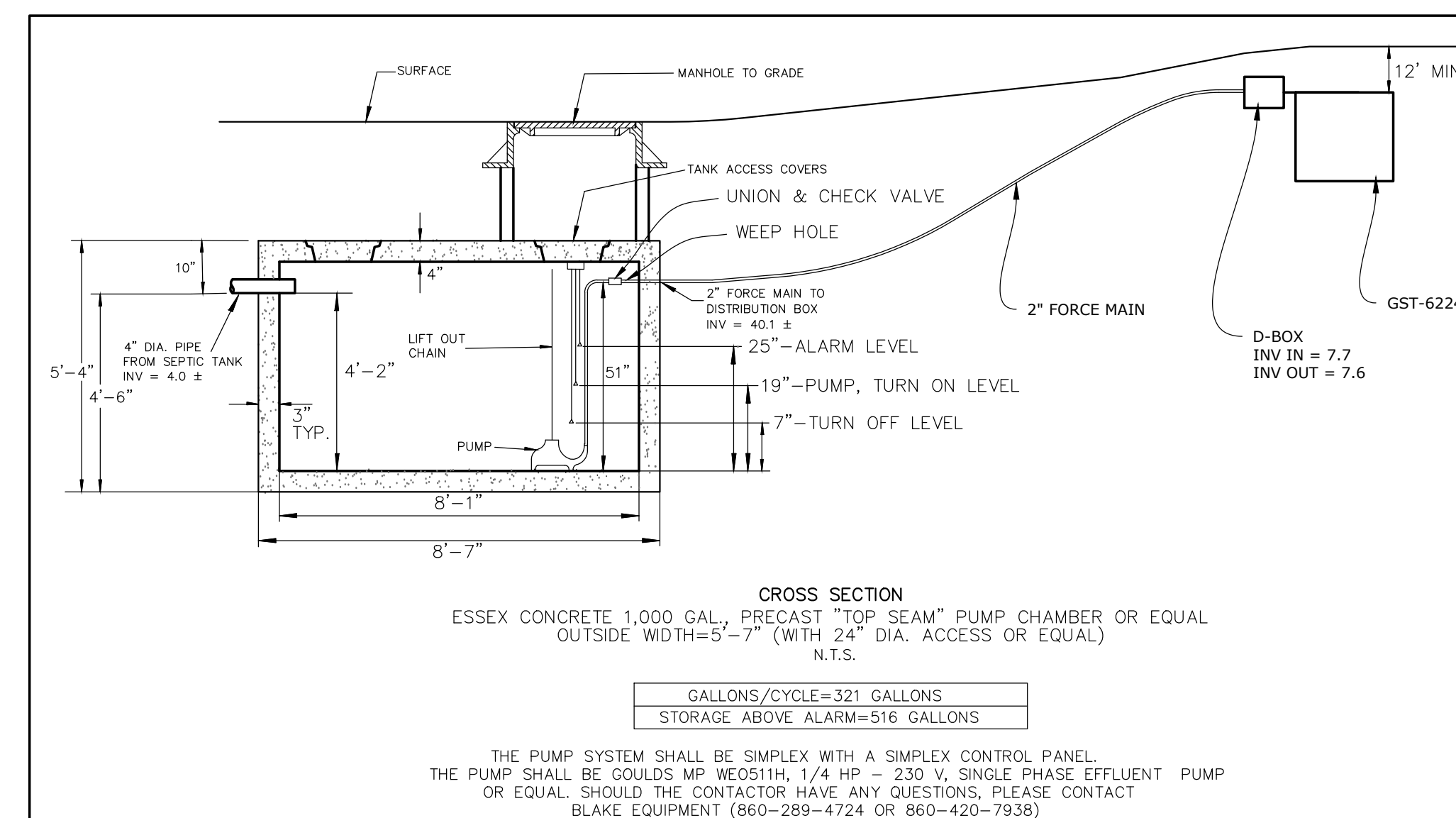
PERCOLATION TEST
PERFORMED BY DOANE ENGINEERING
03/11/22

PT # 1

D = 30" PRESOAK @ 1:40 PM

TIME (IN)	DEPTH (IN)	CHANGE	RATE (MIN/IN)
2:40	4.25		
2:50	13.00		
3:00	18.50		
3:10	DRY		
3:20			
3:30			
3:40			

PERCOLATION RATE = 1 - 10.0 MIN/INCH



SECTION A-A
PROPOSED BARN X-SECTION

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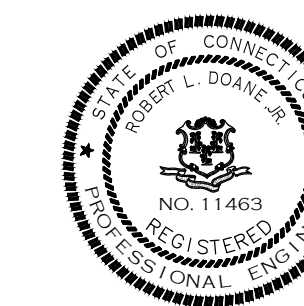
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CONN. P.E. & L.S. LIC. NO. 11463



MAP #342 LOT #208

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
MATTHEW & JEAN WALSTON
20 RIVER ROAD, ESSEX, CONNECTICUT

SCALE:	DATE:	SHEET NO.:	IDENT. NO.:
N/A	07/25/22	2 OF 2	