

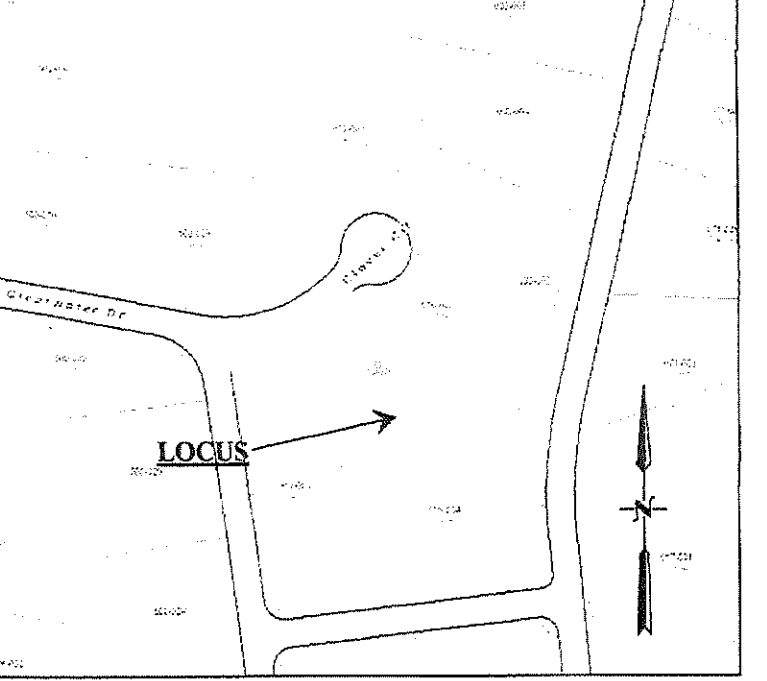
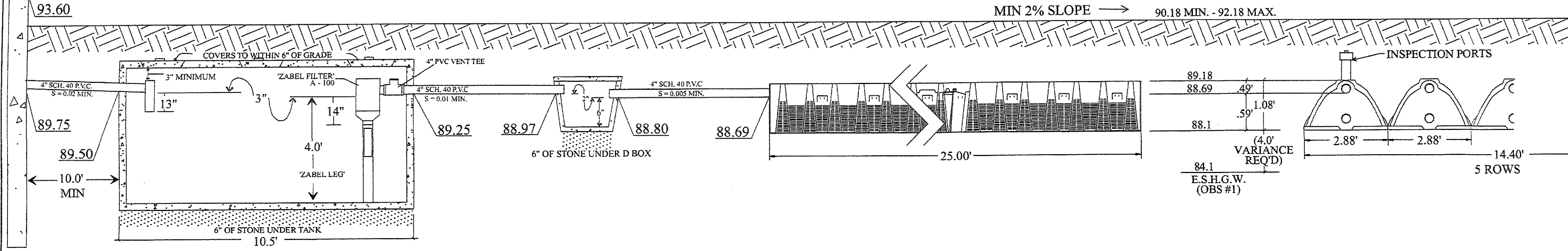
PROPOSED 1500 GALLON TANK
NOT TO SCALE

DISTRIBUTION BOX
NOT TO SCALE

"ARC 36" STANDARD CAPACITY CHAMBER DETAIL
NOT TO SCALE

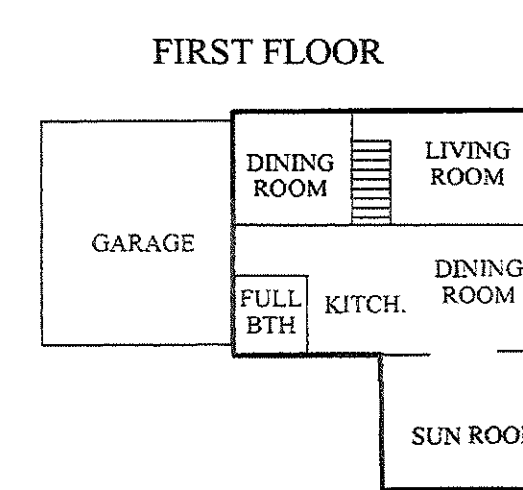
CROSS SECTION
NOT TO SCALE

LOCUS PLAN



REMOVE AND REPLACE
ALL UNSUITABLE MATERIALS ARE TO BE REMOVED FOR A DISTANCE OF 5' IN ALL DIRECTIONS AROUND PROPOSED LEACHING FACILITY TO THE LOWER CL OF MEDIUM SAND (OBS#1) APPROX. ELEVATION 87.4 AND REPLACED WITH CLEAN SAND AS REQUIRED BY 310 CMR 15.25(5)

FLOOR PLAN
NOT TO SCALE



DESIGN CALCULATIONS

EXISTING BEDROOMS	4	@ 110 G.P.D. =	440 G.P.D.
PROPOSED BEDROOMS	4	@ 110 G.P.D. =	440 G.P.D.
NUMBER OF ROWS	5		
NUMBER OF UNITS PER ROW	5		
NUMBER OF CHAMBERS	25		
NUMBER OF COUPLINGS	0		
DEPTH BELOW INVERT	0.59		
LENGTH OF BED	25.00		
WIDTH OF BED	14.40		
TOTAL CHAMBER LENGTH	126.00		
LT/AR	0.74		
SQ. FT. MIN.	395		
SQ. FT. @ 4.8	600.00		
CAPACITY TOTAL	444.00		

GENERAL NOTES

ALL PIPING TO BE SCHEDULE 40 P.V.C.
ALL LOCATIONS OF UTILITIES SHOWN ARE AS MARKED BY THE ASSET AND ARE TO BE VERIFIED BY INSTALLER PRIOR TO CONSTRUCTION.
THIS DESIGN INCLUDES VARIANCES TO DUXBURY SUPPLEMENTAL REGULATIONS.
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TITLES 5 AND DUXBURY SUPPLEMENTAL REGULATIONS.
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH "I" WASHES.
THERE ARE NO KNOWN POTABLE WELLS WITHIN 150' OF THE PROPOSED LEACHING FACILITY.
THERE ARE NO KNOWN IRRIGATION WELLS WITHIN 100' OF THE PROPOSED LEACHING FACILITY.

IN-LINE ELEVATIONS PROPOSED AS-BUILT

INV @ HSE	89.75
INV INTO TANK	89.50
INV OUT OF TANK	89.25
INV INTO D-BOX	88.87
INV OUT OF D-BOX	88.69
INV INTO ARC 36	88.10
BOTTOM OF ARC 36	87.40
SEPARATION PROVIDED	4.0' (VARIANCE REQ'D)
WATER TABLE	84.1 (E.S.H.G.W. @ OBS #1)
BOTTOM OF OBS HOLE	80.3

SURVEY INFORMATION

WETLANDS DELINEATED 3/2021 BY: BRAD HOLMES, PROFESSIONAL WETLANDS SCIENTIST, ENVIRONMENTAL CONSULTING & RESTORATION, LLC, 62 BARK MITCHELL RD., PLYMOUTH, MA 01961
THIS SITE IS NOT LOCATED WITHIN AN ESTIMATED / PRIORITY HABITAT AREA OF THE MASSACHUSETTS NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM (NHESP).
THIS SITE DOES NOT CONTAIN ANY CERTIFIED VERNAL POOLS.
THIS SITE IS NOT LOCATED WITHIN AN AREA OF CRITICAL ZONE.
THIS SITE IS NOT LOCATED WITHIN A FLOOD ZONE AS SHOWN ON FEMA MAP 17002C0219I, DATED 11/17/10.
THIS PROPERTY DOES NOT FALL WITHIN A ZONE II OF A WELLSHEAD PROTECTION AREA.
BENCHMARK, TOP OF CONC. BOUND EL. 91.89 NAVD83
DEED REFERENCE: BOOK 3113, PAGE 177
PLAN TO BE USED FOR INSTALLATION OF SEPTIC SYSTEM ONLY.

SOIL LOGS

OBSERVED BY: FREEMAN BOYNTON III, SOIL EVALUATOR WITNESSED BY: TRACY MAYO, (BOA OF HEALTH)

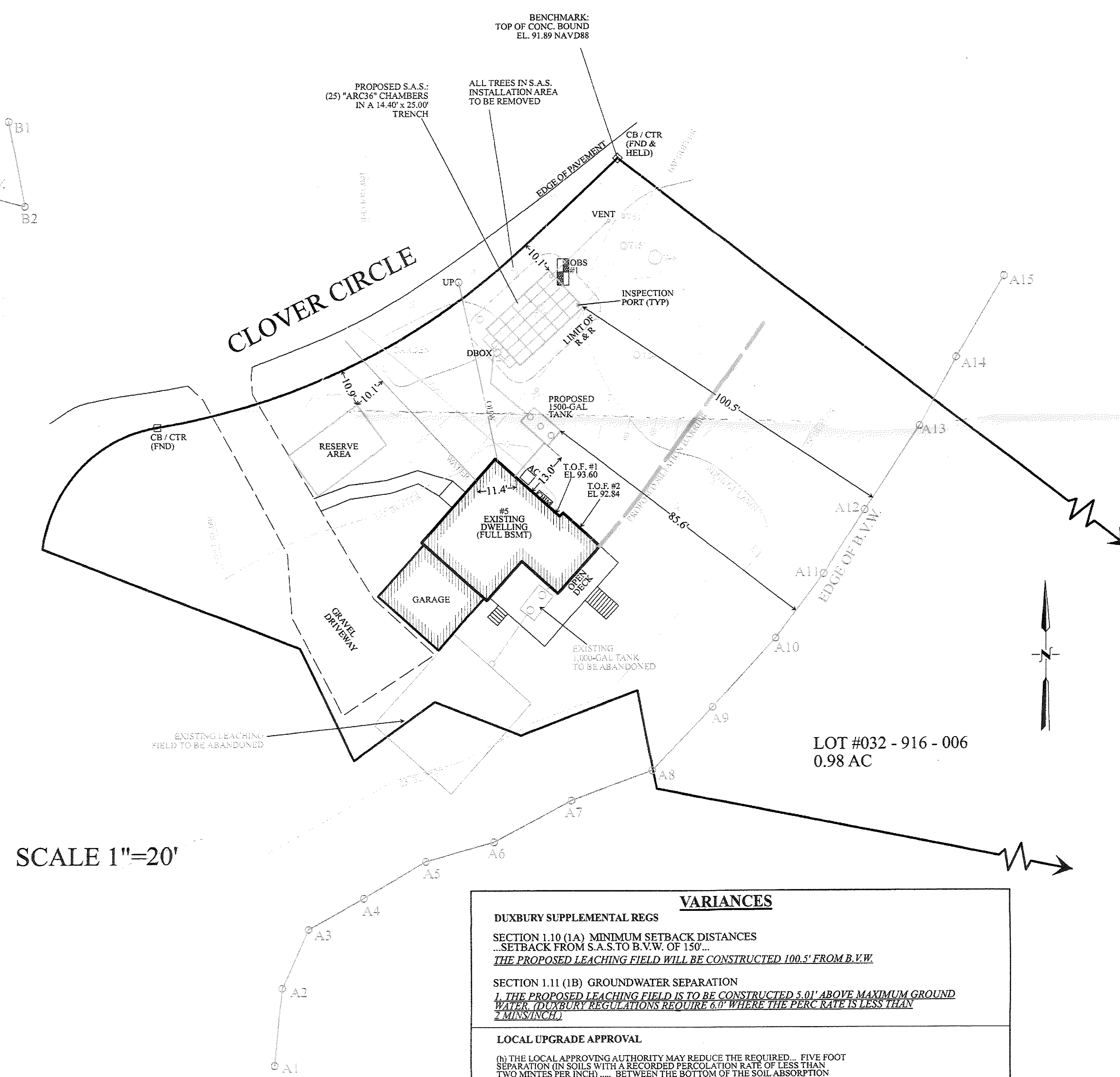
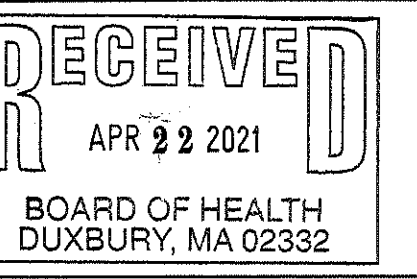
ELEV.	OBS. HOLE #	DEPTH
91.5	A	0"
		LOAMY SAND 10YR 3/2
90.7	B	10"
		LOAMY SAND 10YR 5/8
89.5	C1	24"
		COARSE SAND 2.5Y 6/3
87.3	C2	48"
		MEDIUM SAND 2.5Y 6/4
84.1		ARTESIAN / E.S.H.G.W. 89°
80.3		PERC RATE < 1 MINUTE / INCH 134°

FRIMPTER ADJUSTMENT

Duxbury (D4W) 79 INPUT	
132" measured elevation (ft.)	
4/2021 monthly/year of monthly well data	
9.74 monthly well info	
11.0' measured depth to water table	
6.1' yearly well info	
4.0' 2.0"-10%+ exceedance in sand	
4.04' yearly well info	
3.00' adjustment value	
7.40' adjustment to measured depth	
84.1' adjusted water table elevation (ft.)	
89° adjusted depth to water (in.)	

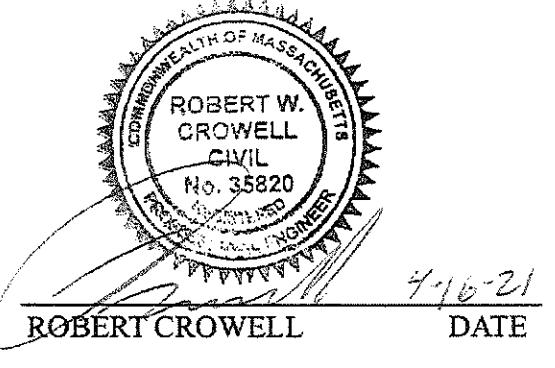
WATER SUPPLY LOCATIONS LIST

PARCEL NUMBER	STREET ADDRESS	SUPPLY TYPE
032-916-006	5 CLOVER CIRCLE	TOWN WATER
032-916-007	19 CLOVER CIRCLE	TOWN WATER
032-916-005	251 CLEARWATER DR	TOWN WATER
032-916-004	190 AUTUMN AVE	TOWN WATER
032-916-008	30 CLOVER CIRCLE	TOWN WATER
032-906-009	0 CLEARWATER DR	VACANT LOT
032-033-033	210 AUTUMN AVE	TOWN WATER
032-800-033	0 CLEARWATER DR	VACANT LOT
032-500-023	0 CLEARWATER DR	VACANT LOT



SCALE 1"=20'

VARIANCES
DUXBURY SUPPLEMENTAL REGS
SECTION 1.10 (1A) MINIMUM SETBACK DISTANCES
- SETBACK FROM S.A.S. TO B.V.W. OF 150'-
THE PROPOSED LEACHING FIELD WILL BE CONSTRUCTED 100.5' FROM B.V.W.
SECTION 1.11 (1B) GROUNDWATER SEPARATION
1. THE PROPOSED LEACHING FIELD IS TO BE CONSTRUCTED 5.0' ABOVE MAXIMUM GROUND WATER. DUXBURY REGULATIONS REQUIRE 6.0' WHERE THE PERC. RATE IS LESS THAN 2.0 MIN/INCH.
LOCAL UPGRADE APPROVAL
(B) THE LOCAL APPROVING AUTHORITY MAY REDUCE THE REQUIRED... FIVE FOOT SEPARATION IN SOILS WITH A RECORDED PERCOLATION RATE OF LESS THAN TWO MINUTES PER INCH... BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION ONLY IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
1. A MINIMUM FOUR FOOT SEPARATION IN SOILS WITH A RECORDED PERCOLATION RATE OF LESS THAN TWO MINUTES PER INCH... BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION IS MAINTAINED.
1. THE PROPOSED LEACHING FIELD IS TO BE CONSTRUCTED 4.0' ABOVE MAXIMUM GROUND WATER.



I CERTIFY THAT THIS PLAN CONFORMS TO TITLE 5 AND DUXBURY B.O.H. REGULATIONS (EXCLUDING WAIVERS SPECIFIED)

PLAN SHOWING: **PROPOSED SEPTIC SYSTEM REPAIR IN DUXBURY**

FOR: THERESA MCLAUGHLIN	DRAWN BY: CHRIS LEAMY
LOC: 5 CLOVER CIRCLE	DESIGN & CHECKED BY: FREEMAN BOYNTON, JR. & ROBERT CROWELL
LOT #: 032-916-006	REVISIONS: DESCRIPTION DATE
DATE: APRIL 14, 2021	

DUXBURY CONSTRUCTION, LLC.
P.O. BOX 2514 DUXBURY MASSACHUSETTS 781 934 0000