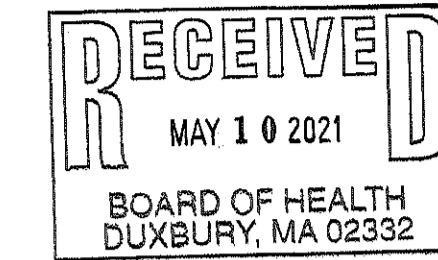
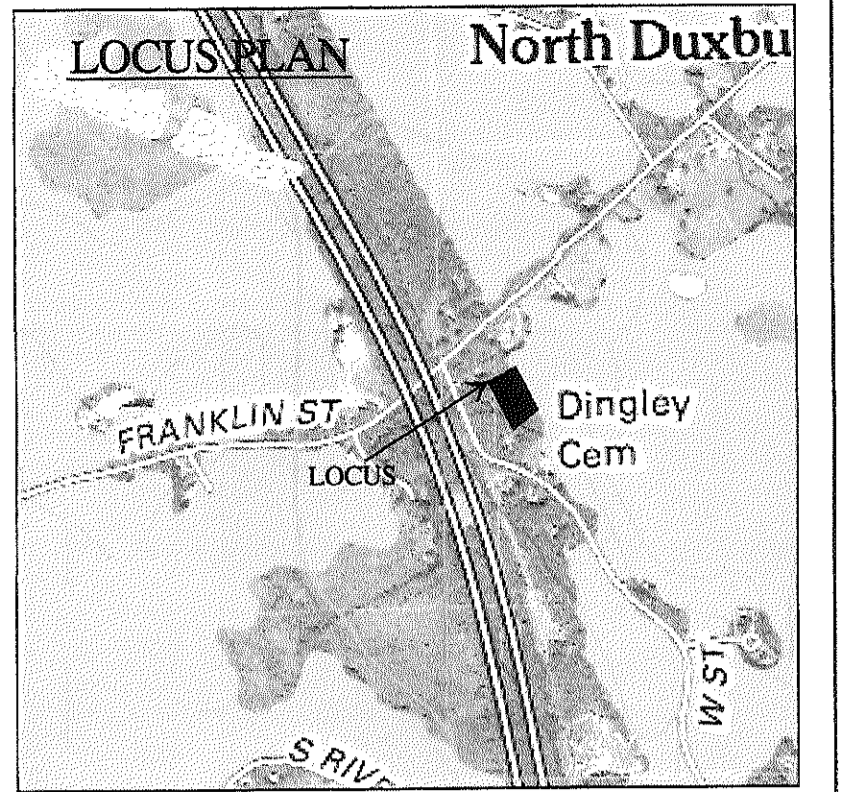
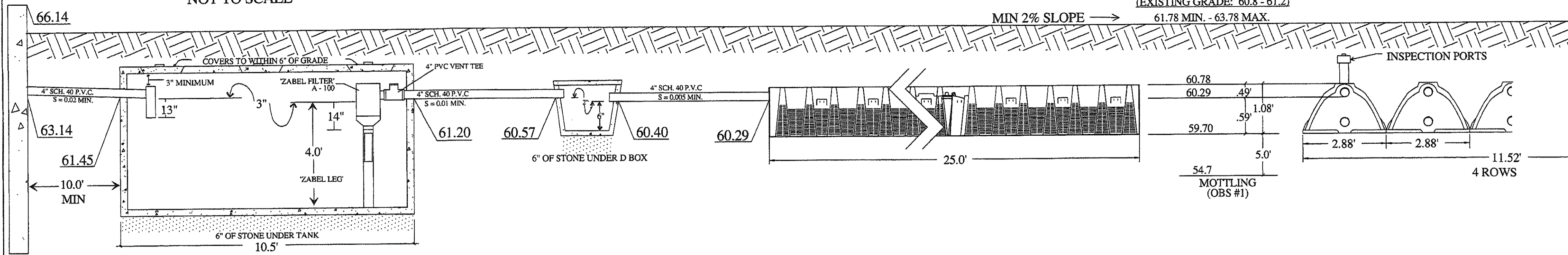


PROPOSED 1500 GALLON TANK
NOT TO SCALE

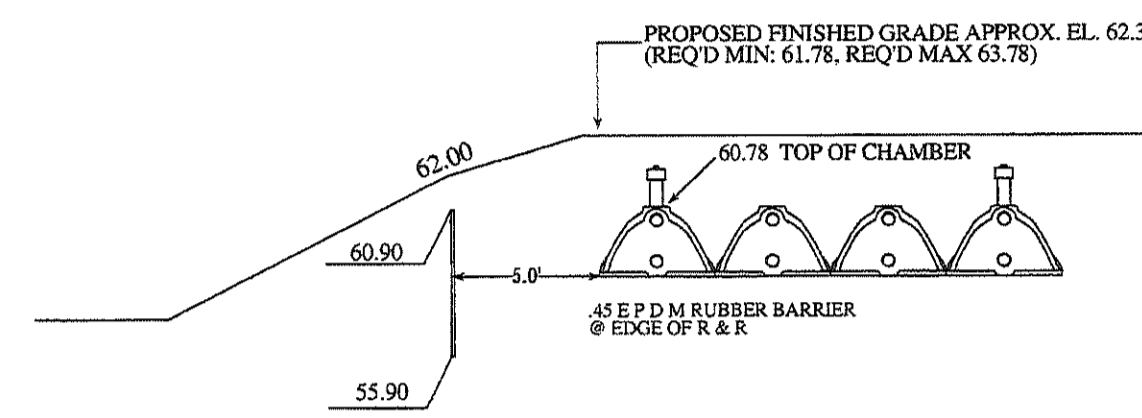
DISTRIBUTION BOX
NOT TO SCALE

ARC 36 CAPACITY CHAMBER DETAIL
NOT TO SCALE

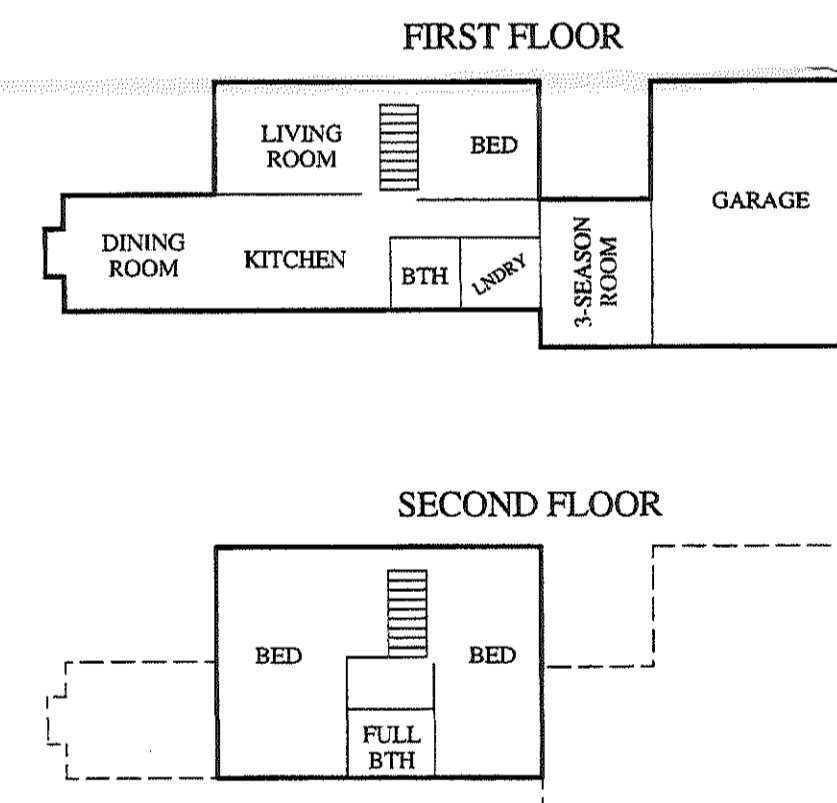
CROSS SECTION
NOT TO SCALE



RUBBER BREAKOUT BARRIER
CROSS SECTION



FLOOR PLAN
NOT TO SCALE



WATER SUPPLY LOCATIONS LIST

PARCEL NUMBER	STREET ADDRESS	SUPPLY TYPE
053 - 811 - 003	353 FRANKLIN ST	PRIVATE
053 - 500 - 002	0 WEST ST	VACANT
053 - 021 - 001	784 WEST ST	TOWN WATER
053 - 021 - 000	796 WEST ST	PRIVATE
053 - 501 - 022	0 WEST ST	VACANT
053 - 011 - 404	826 WEST ST	TOWN WATER
053 - 011 - 403	838 WEST ST	TOWN WATER
053 - 011 - 402	852 WEST ST	TOWN WATER
053 - 811 - 201	369 FRANKLIN ST	PRIVATE
052 - 811 - 001	349 FRANKLIN ST	TOWN WATER
052 - 811 - 002	347 FRANKLIN ST	TOWN WATER

ROBERT W. CROWELL
CIVIL
No. 35520
REGISTERED PROFESSIONAL ENGINEER
5-10-21
DATE

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

DESIGN CALCULATIONS

EXISTING BEDROOMS	3	@ 110 G.P.D.	330 G.P.D.
PROPOSED BEDROOMS	3	@ 110 G.P.D.	330 G.P.D.
NUMBER OF ROWS	4		
NUMBER OF UNITS PER ROW	5		
NUMBER OF CHAMBERS	20		
NUMBER OF COUPLINGS	0		
DEPTH BELOW INVERT	0.59		
LENGTH OF BED	25.00'		
WIDTH OF BED	11.52'		
TOTAL CHAMBER LENGTH	100.00'		
L/T/R	0.74		
SQ. FT. MIN.	446		
SQ. FT. PER X235253 @ 4.8	480.00		
CAPACITY TALS	355.20		

THIS SEPTIC SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL

GENERAL NOTES

ALL PIPING TO BE SCHEDULE 40 F.V.C.
ALL LOCATIONS OF UTILITIES SHOWN ARE AS MARKED BY DIG-SAFE AND ARE TO BE VERIFIED BY INSTALLER PRIOR TO CONSTRUCTION.
THERE ARE NO KNOWN WETLANDS WITHIN 150' OF THE PROPOSED LEACHING FACILITY UNLESS SHOWN.
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.
THIS PROPERTY DOES NOT FALL WITHIN A ZONE II OF A WELLHEAD PROTECTION AREA.
THIS PROPERTY DOES NOT FALL WITHIN A FLOOD ZONE AS SHOWN ON FIRM MAP 25030228K, DATED 11/4/2016.
THIS DESIGN REQUIRES VARIANCES TO TITLE 5 (310 CMR 15.00) OR DUXBURY SUPPLEMENTAL REGULATIONS.
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TITLE 5 AND DUXBURY SUPPLEMENTAL REGULATIONS.
ALL SYSTEM COMPONENTS SHALL BE MARKED WITH 1" WASHERS.

IN-LINE ELEVATIONS PROPOSED AS-BUILT

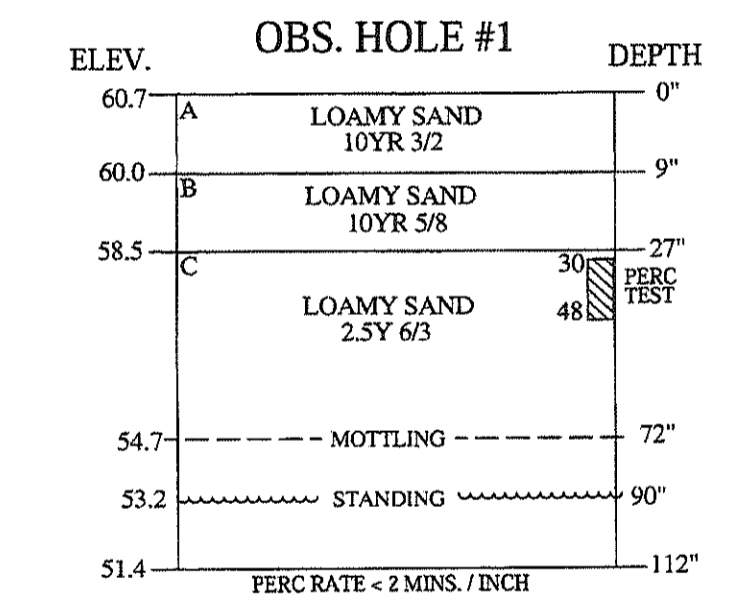
INV. @ HSE	63.14
INV INTO TANK	61.45
INV OUT OF TANK	61.20
INV INTO D-BOX	60.57
INV INTO D-BOX	60.40
INV INTO ARC 36	60.29
BOTTOM OF ARC 36	59.70
SEPARATION PROVIDED	5.0' (VARIANCE REQUESTED)
WATER TABLE	54.7 (MOTTILING OBS #1)
BOTTOM OF OBS HOLE	51.4

SURVEY INFORMATION

PROPERTY LINE DATA TAKEN FROM "PLAN OF LAND IN DUXBURY, MASS BELONGING TO RUSSELL J. CONSTANCE R. FLYNN" DATED JUNE 8, 1967, DRAWN BY JOHN F. CALFIELD, SURVEYOR & ON FILE AT PLYMOUTH COUNTY REGISTRY OF DEEDS, PLAN BOOK #708.
PLAN TO BE USED FOR INSTALLATION OF SEPTIC SYSTEM ONLY.
BENCH MARK - TOP OF FOUNDATION EL. 66.14 NAVD88

SOIL LOGS

DATE:	OBSERVED BY:	WITNESSED BY:
4/29/2021	FREEMAN BOYNTON III SOIL EVALUATOR	TRACY MAYO BOARD OF HEALTH



VARIANCES

DUXBURY SUPPLEMENTAL REGS
SECTION 1.11 (1B) GROUNDWATER SEPARATION
1. THE PROPOSED LEACHING FIELD IS TO BE CONSTRUCTED 5.00' ABOVE MAXIMUM GROUND WATER. DUXBURY REGULATIONS REQUIRE 5.0' WHERE THE PERC RATE IS LESS THAN 2 MINS/INCH.

REMOVE AND REPLACE

ALL UNSUITABLE MATERIALS ARE TO BE REMOVED FOR A DISTANCE OF 5' IN ALL DIRECTIONS AROUND PROPOSED LEACHING FACILITY TO THE LAYER C OF LOAMY SAND (OBS#1) APPROX. ELEVATION 58.5 AND REPLACED WITH CLEAN SAND AS REQUIRED BY 310 CMR 15.25(3)

PLAN SHOWING: PROPOSED SEPTIC SYSTEM REPAIR IN DUXBURY

FOR: SCOTT FADER	DRAWN BY: CHRIS LEAMY
LOC: 353 FRANKLIN ST	DESIGN & CHECKED BY: FREEMAN BOYNTON, JR. & ROBERT CROWELL
LOT #: 053 - 811 - 003	REVISIONS: DESCRIPTION: DATE:
DATE: MAY 3 2021	

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

LOT #053 - 811 - 003
2.615 AC.

SCALE 1"=20'