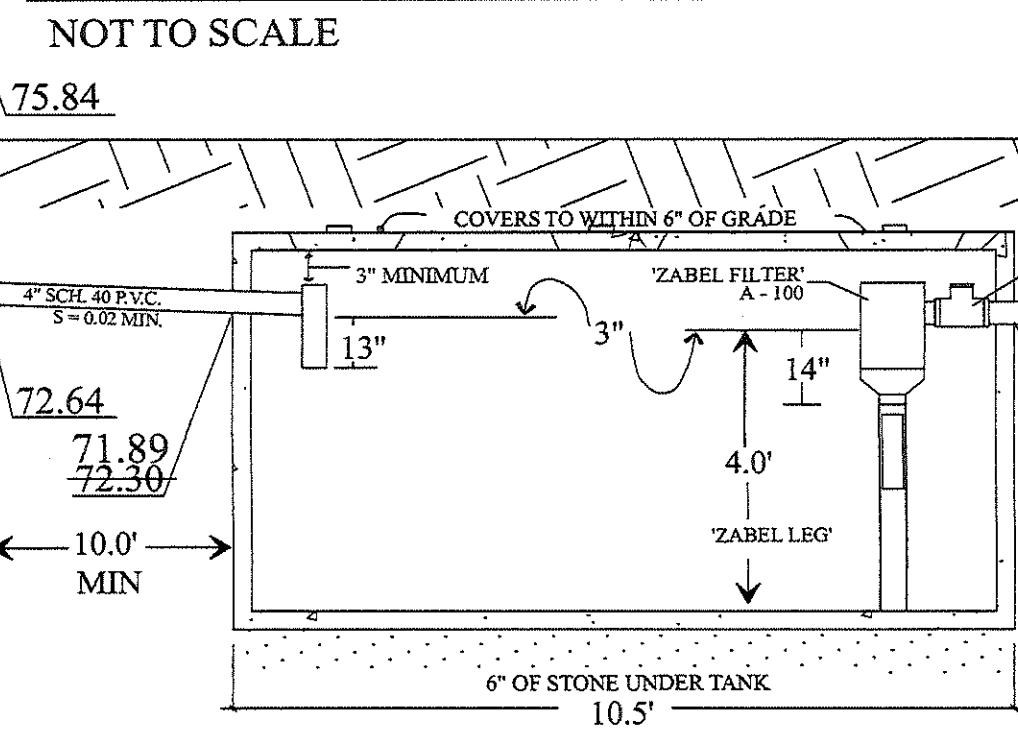
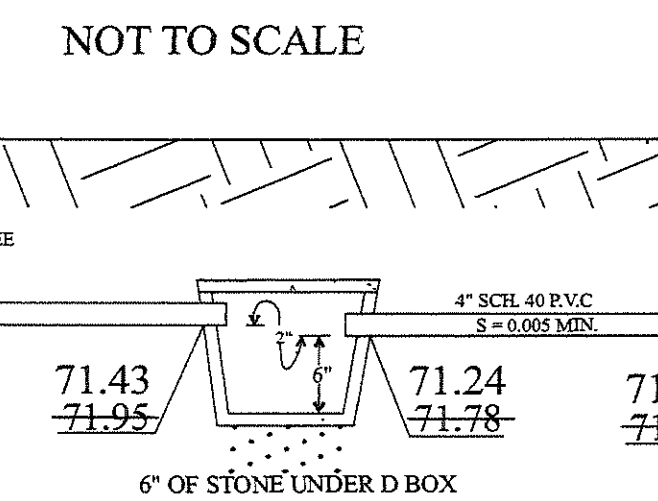


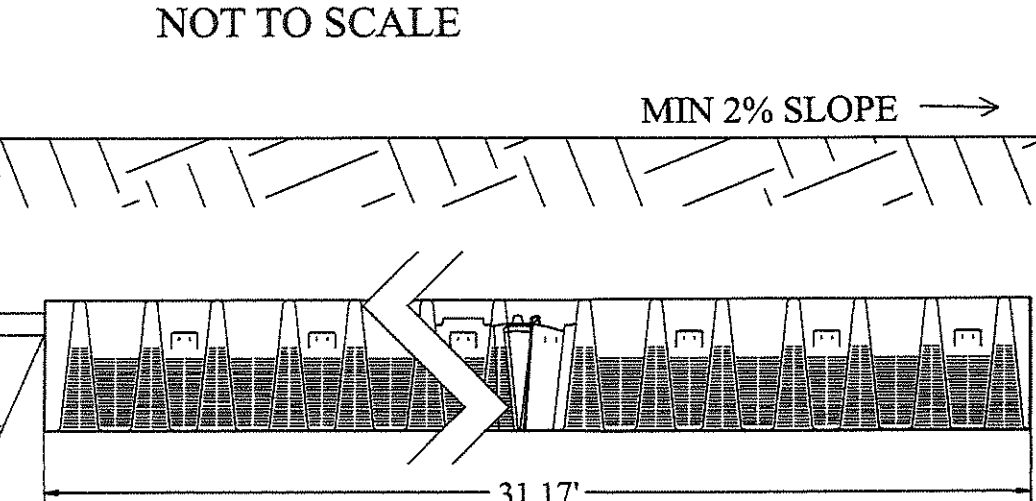
**AS-BUILT 1500 GALLON TANK**



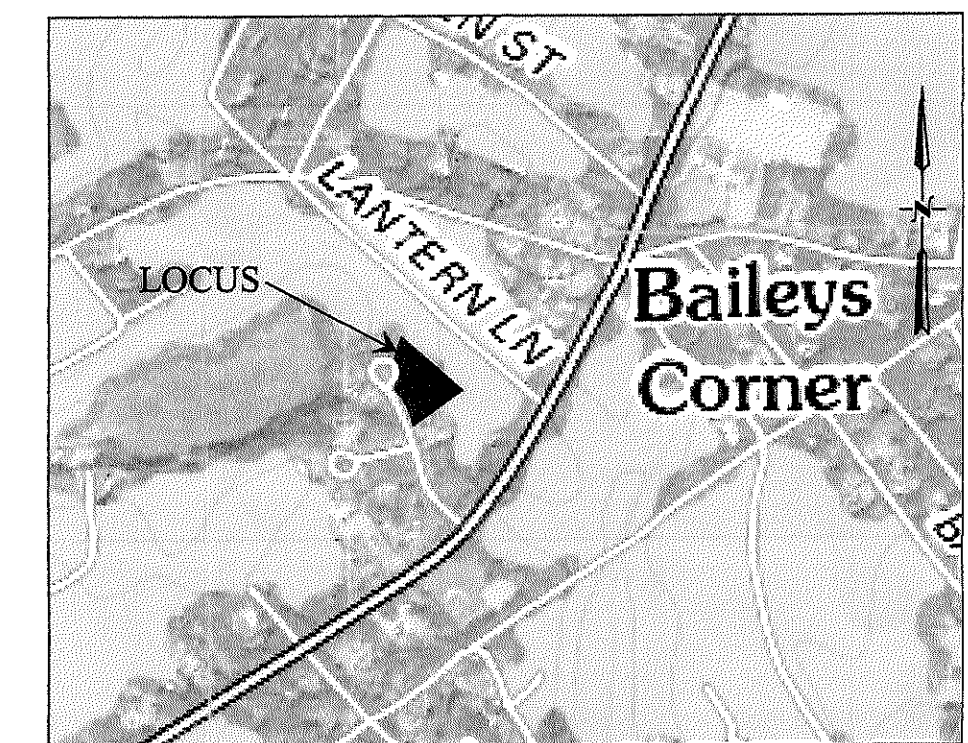
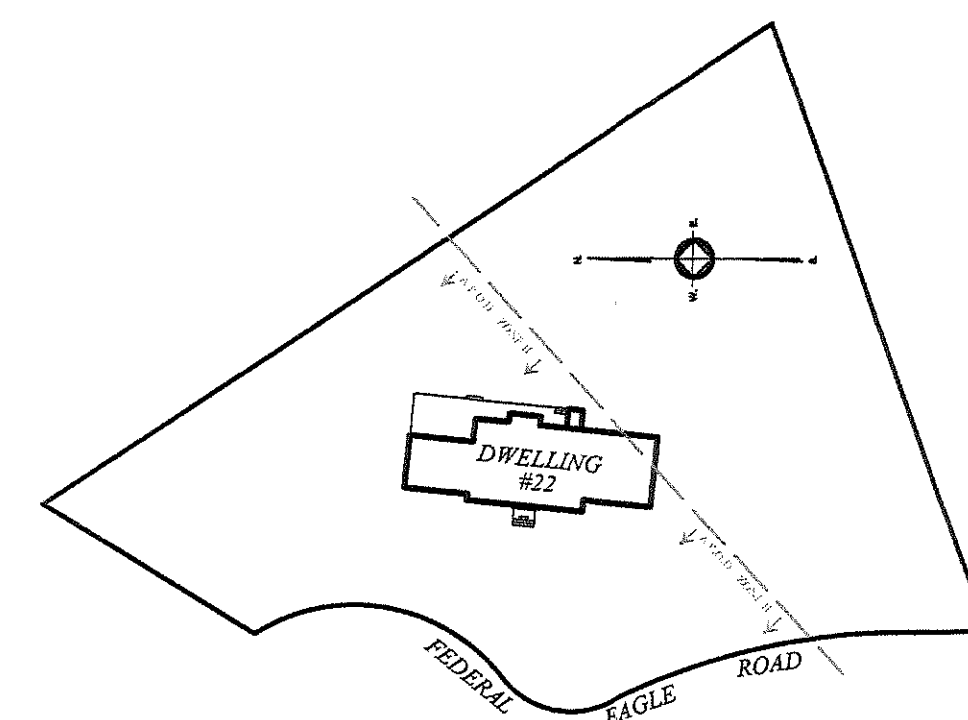
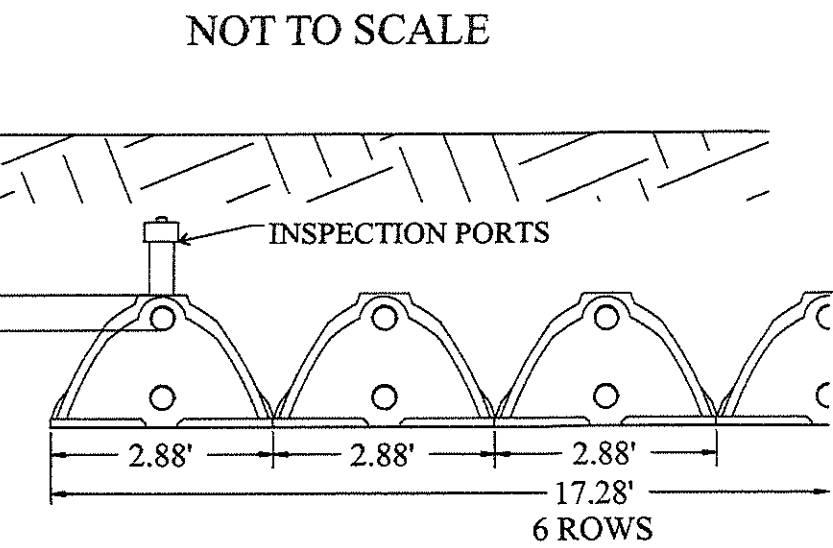
**DISTRIBUTION BOX**



**ARC 36 CAPACITY CHAMBER DETAIL**

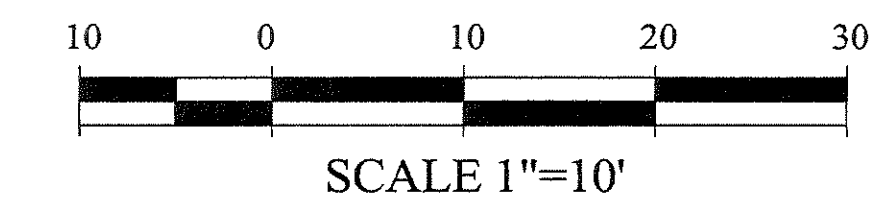


**CROSS SECTION**

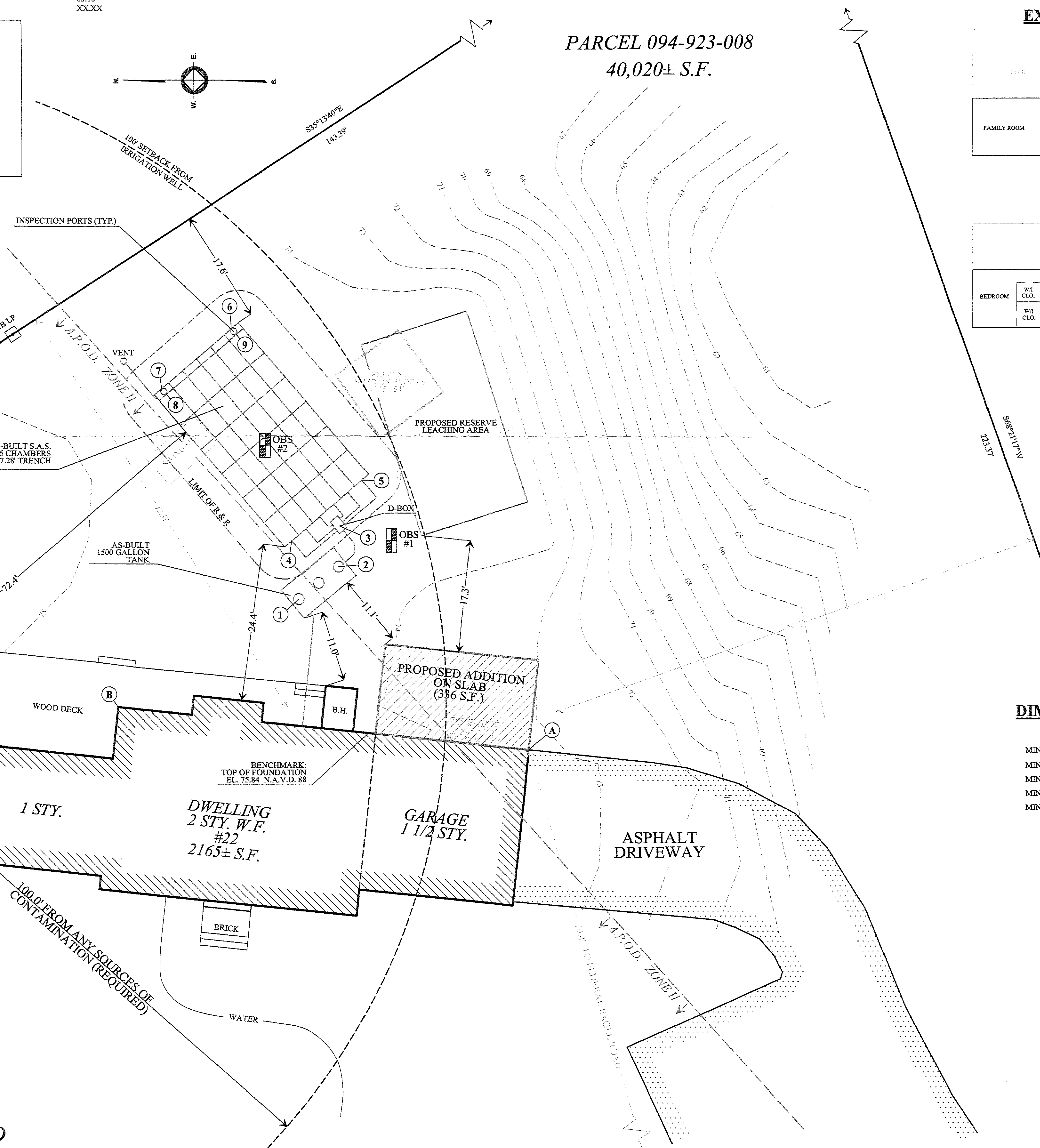


**WELL VARIANCE:**

DUXBURY SUPPLEMENTAL REGS.  
 1.10(C) MINIMUM SETBACKS  
 ...SETBACK FROM S.A.S. TO IRRIGATION WELL 100'...  
 THE PROPOSED LEACHING FIELD IS TO BE CONSTRUCTED 72.4' FROM EXISTING IRRIGATION WELL



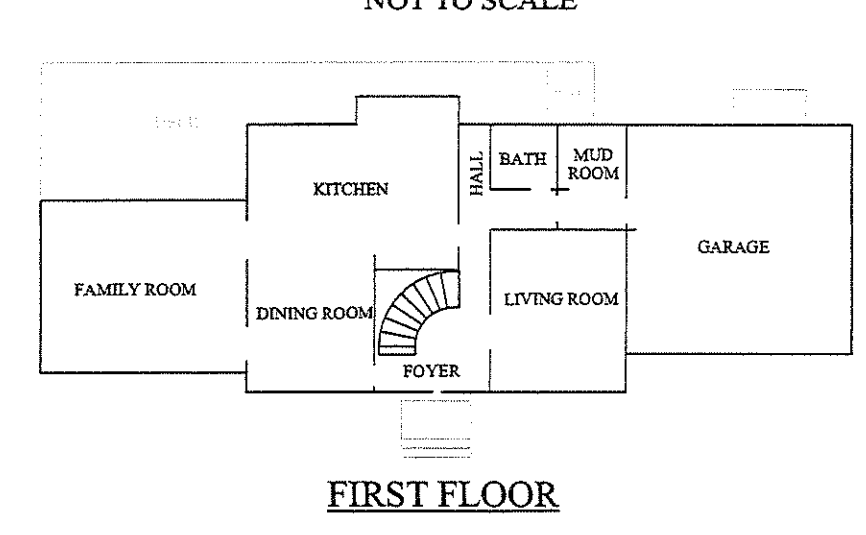
PARCEL 094-923-008  
 40,020± S.F.



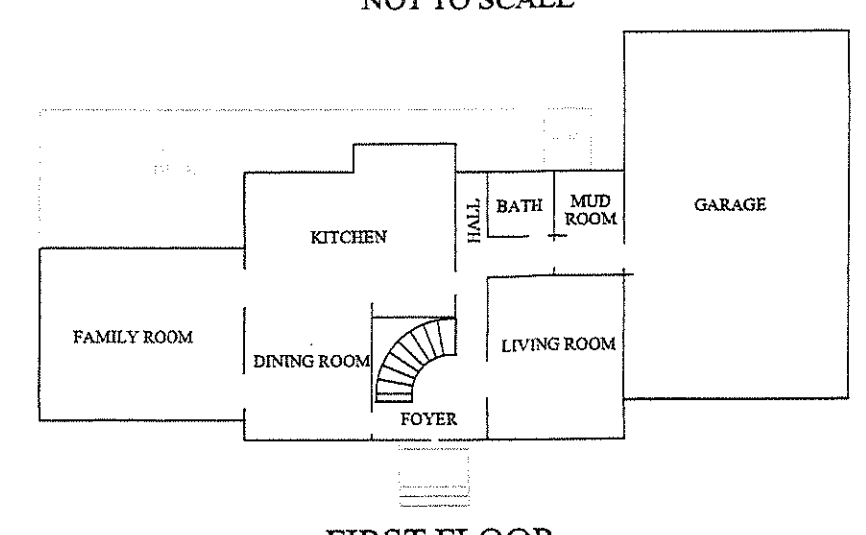
**AS-BUILT TIES**

1A = 42.8	1B = 32.8
2A = 41.1	2B = 40.5
3A = 45.8	3B = 44.3
4A = 49.2	4B = 37.4
5A = 48.9	5B = 51.4
6A = 80.3	6B = 61.5
7A = 80.2	7B = 50.0
8A = 79.2	8B = 49.3
9A = 79.4	9B = 60.9

**EXISTING FLOOR PLAN**



**PROPOSED FLOOR PLAN**



**FIRST FLOOR**

**FIRST FLOOR**

**SECOND FLOOR**

**SECOND FLOOR**

**WATER SUPPLY LOCATIONS LIST**

PARCEL NUMBER	STREET ADDRESS	SUPPLY TYPE
094 - 923 - 008	22 FEDERAL EAGLE ROAD	TOWN WATER
094 - 923 - 006	23 FEDERAL EAGLE ROAD	TOWN WATER
094 - 923 - 007	32 FEDERAL EAGLE ROAD	TOWN WATER
094 - 923 - 009	12 FEDERAL EAGLE ROAD	TOWN WATER
094 - 923 - 010	2 FEDERAL EAGLE ROAD	TOWN WATER
094 - 930 - 005	10 LANTERN LANE	TOWN WATER
094 - 930 - 006	30 LANTERN LANE	TOWN WATER
094 - 930 - 007	50 LANTERN LANE	TOWN WATER

**SURVEY INFORMATION**

PROPERTY LINE DATA TAKEN FROM:  
 PLAN DRAWN BY S. ROBERT PHINNEY, PLS.  
 TITLED "CERTIFIED PLOT PLAN ON 22 FEDERAL EAGLE ROAD IN DUXBURY, MASSACHUSETTS" DATED MAY 10, 2021

**BENCHMARK:**  
 TOP OF FOUNDATION EL. 75.84 N.A.V.D. 88

**REFERENCE:** LCC 118572

**GENERAL NOTES**

ALL PIPING TO BE SCHEDULE 40 P.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.  
 A PORTION OF THIS PROPERTY DOES FALL WITHIN A ZONE II OF A WELLED PROTECTION AREA

THIS PROPERTY DOES NOT FALL WITHIN A FLOOD ZONE AS SHOWN ON FIRM MAP 25023C0237K DATED 11/4/2016

THIS DESIGN DOES NOT REQUIRE VARIANCES TO TITLE 5 (310 C.M.R. 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 "I" WASHERS

**DESIGN CALCULATIONS**

EXISTING BEDROOMS	4
DESIGN FOR	6 @ 110 G.P.D. = 660 G.P.D.
NUMBER OF ROWS	6
NUMBER OF UNITS PER ROW	6
NUMBER OF CHAMBERS	36
NUMBER OF COUPLINGS	6
DEPTH BELOW INVERT	0.59'
LENGTH OF BED	31.17'
WIDTH OF BED	17.28'
TOTAL CHAMBER LENGTH	187.02'
LTAR	0.74 G.P.D.
SQ.FT. MIN.	892.00 S.F.
SQ.FT. PER X235253 @ 4.8	897.70 S.F.
CAPACITY TOTAL	664.30 G.P.D.

THIS SEPTIC SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL

**IN-LINE ELEVATIONS**

	PROPOSED	AS-BUILT
INV @ HSE	72.64	72.64
INV INTO TANK	72.30	71.89
INV OUT OF TANK	72.05	71.59
INV INTO D-BOX	71.95	71.43
INV OUT OF D-BOX	71.78	71.24
INV INTO ARC 36	71.68	71.05
BOTTOM OF ARC 36	71.09	70.46
SEPARATION PROVIDED	7.99' (OBS #1)	6.96' (OBS #2)
WATER TABLE	NONE ENCOUNTERED	NONE ENCOUNTERED
BOTTOM OF OBS HOLE #1	63.10	63.10
BOTTOM OF OBS HOLE #2	N/A	63.50

**DIMENSIONAL REQUIREMENTS: ZONE RC**

ITEM	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	40,000 S.F.	40,020 S.F.	N/A
MINIMUM LOT FRONTAGE	200 FT.	273 +/- FT.	N/A
MINIMUM FRONT YARD	25 FT.	42.1 FT.	79.4 FT.
MINIMUM SIDE YARD	15 FT.	72.9 FT.	79.1 FT.
MINIMUM REAR YARD	15 FT.	38.4 FT.	72.0 FT.

**LOT COVERAGE**

LOT AREA: 40,020± S.F.  
 EXISTING BUILDING COVERAGE: 2,310± S.F. / 5.8%±  
 PROPOSED BUILDING COVERAGE: 2,646± S.F. / 6.6%±  
 NET CHANGE: +336 S.F. / +0.8%

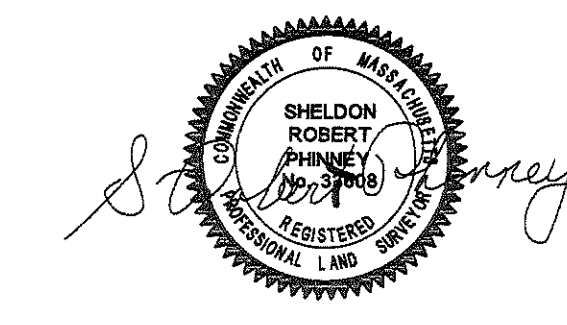
SOIL LOGS	DATE	OBSERVED BY:	WITNESSED BY:
	5/19/2021	FREEMAN BOYNTON III SOIL EVALUATOR	TRACY MAYO BOARD OF HEALTH

ELEV.	OBS. HOLE #1	DEPTH	ELEV.	OBS. HOLE #2	DEPTH
74.1	H.T.M.	0"	74.5	H.T.M.	0"
71.2	A SANDY LOAM 10YR 3/2	35"	71.8	A SANDY LOAM 10YR 3/2	32"
69.9	B LOAMY SAND 10YR 5/8	50"	70.5	B LOAMY SAND 10YR 5/8	48"
68.6	C1 MEDIUM SAND 2.5Y 6/3	66"	69.5	C1 MEDIUM SAND 2.5Y 6/3	60"
63.1	NO GROUND WATER ENCOUNTERED PERC RATE < 2 MINS. / INCH	132"	63.5	NO GROUND WATER ENCOUNTERED PERC RATE < 2 MINS. / INCH	132"

**AS-BUILT SEPTIC SYSTEM REPAIR IN DUXBURY**

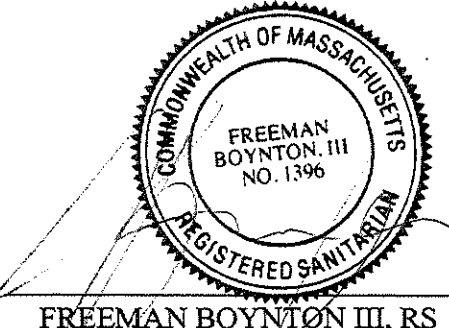
FOR: KEVIN & LARA KINGSTON	DESIGN & CHECKED BY: FREEMAN BOYNTON, JR. & ROBERT CROWELL
LOC: 22 FEDERAL EAGLE ROAD	REVISIONS: DESCRIPTION: DATE:
LOT#: 094 - 923 - 008	DATE: JUNE 17, 2021
	RE-DESIGN SAS FROM QUICK 4 CHAMBERS TO ARC 36. MOVE LOCATION OF S.A.S., TANK, AND RESERVE AREA. NOTE THE ABANDONING OF IRRIGATION WELL.
	AS-BUILT SEPTIC SYSTEM. ADD VARIANCE FOR IRRIGATION WELL.

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



I CERTIFY THAT THE DWELLING LOCATED AS SHOWN ON THIS PLAN IS DERIVED FROM AN ON THE GROUND SURVEY.  
 THE DWELLING IS NOT LOCATED IN A FLOOD ZONE AS SHOWN ON F.L.R.M. MAP 25023C0237K DATED NOVEMBER 4, 2016.

THIS PLAN AND ACCOMPANYING CERTIFICATIONS DO NOT CONSTITUTE A CERTIFICATION OF TITLE TO THE PROPERTY DISPLAYED HEREON. THE OWNER OF THE LOCUS AND ADJUTING PROPERTIES ARE SHOWN ACCORDING TO CURRENT ASSESSOR'S RECORDS.



I CERTIFY THAT THIS SYSTEM HAS BEEN CONSTRUCTED IN COMPLIANCE WITH 310 CMR 15.00, THE APPROVED DESIGN PLANS AND ALL LOCAL REQUIREMENTS OF THE DUXBURY B.O.H REGULATIONS (EXCLUDING WAIVERS SPECIFIED ON WAIVER REQUEST) AND THAT ANY CHANGES TO THE DESIGN PLANS HAVE BEEN REFLECTED ON THE AS-BUILT PLAN.