GENERAL NOTES

- A.) Neither driveway nor parking areas are allowed over septic system unless H-20 components are used and system is vented.
- B.) The designer will not be responsible for the system as designed unless constructed as shown. Any changes must be approved in writing

by the designer.

- C.) Contractor shall be responsible for verifying the location of all underground and overhead utilities prior to the commencement of work.
- D.) A copy of this plan was submitted to the Chatham Water Department for their review, on

CONSTRUCTION NOTES

- 1.) All materials and construction shall conform to the State Environmental Code, Title 5, and the requirements of the local Board of Health.
- 2.) Topsoil, subsoil, peat, or other unsuitable or impervious material [15.255 (1)] shall be removed five (5) feet laterally in all directions beyond the outer perimeter of the soil absorption system to the depth of the naturally occurring pervious material(s) and replaced with fill material meeting the specifications of 310 CMR 15.255 (3), [15.255(5)].
- 3.) Septic tank(s), grease trap(s), dosing chamber(s) and distribution box(es) shall be set on a level stable base which has been mechanically compacted. If the component is placed in fill, proper compaction is required to ensure stability and to prevent settling; native ground with a 6 inch stone base is otherwise adequate [15.221(2)].
- 4.) Base aggregate shall consist of 3/4" to 1-1/2" double washed stone free of iron, fines and dust and shall be installed from below the crown of the distribution line to the bottom of the soil absorption system [15.247 (1)]. Base aggregate shall be covered with a 2" layer of 1/8" to 1/2" double washed stone free of iron, fines and dust [15.247 (2)].
- 5.) From the date of installation of the soil absorption system until receipt of a Certificate of Compliance, the perimeter of the soil absorption system shall be staked and flagged to prevent the use of such area for all activities which might damage the system [15.246(2)].
- 6.) The Board of Health shall require inspection of all construction by an agent of the Board of Health and the designer and shall require such persons to certify in writing that all work has been completed in accordance with the terms of the permit and approved plans. 48 hours advance notice is requested.

SEPTIC TANK NOTES

- 1.) 1,500 Gallon Septic Tank (H-10)
- 2.) Septic tank(s) shall be installed on a level stable base that has been mechanically compacted and onto which 6 inches of crushed stone has been placed [15.228(1)].
- 3.) Raise covers of the septic tank with pre-cast concrete or corrugated polyethylene water tight risers to within 6" of finish grade [15.228(2)].

DISTRIBUTION BOX NOTES

- 1.) Outlet pipes from D-box shall remain level for at least 2 feet before pitching to soil absorption system [15.232(3)(c)]. Water test D'box to assure even distribution [15.232(3)(b)].
- 2.) Raise covers of the D-Box with pre-cast concrete water tight risers over inlet and outlet tees to within 6" of finish grade.

86 Miles Street, Harwich Port
05-05-2014 - AM; Partly Sunny
Excavator - TWN
Soil evaulator Scott Arnold; witness John Chatham

De	epth		Elevation	Horizon	Soil Matrix	Soil Texture	Soil Structure
Test Hole #1			18.8				
0	to	8	18.1	Α	7.5YR4/2	Loamy Sand	Very friable
8	to	28	16.5	В	7.5YR5/6	Loamy Sand	Very friable
28	to	120	8.8	С	10YR5/6	Medium Sand	Loose
53		14.4	Percolation Test, Rate <2 min./inch				
Test Ho	le#	2	19.7				
0	to	10	18.9	A	7.5YR3/1	Loamy Sand	
10	to	27	17.5	В	7.5YR4/6	Loamy Sand	
27	to	132	8.7	С	10YR5/6	Coarse Sand	
Test Ho	le#	3	18.9				
0	to	11	18.0	Α	7.5YR3/2	Loamy Sand	Very friable
11	to	23	17.0	В	7.5YR4/6	Loamy Sand	Very friable
23	to	132	7.9	С	10YR4/6	Medium Sand	Loose
Test Ho	le#	4	19.4				
0	to	8	18.7	Α	7.5YR3/2	Loamy Sand	Very friable
8	to	13	18.3	E	7.5YR6/1	Loamy Sand	Loose
13	to	42	15.9	В	7.5YR4/6	Loamy Sand	Very friable

SYSTEM DESIGN CALCULATIONS

62 14.2 Percolation Test. Rate <2 min./inch

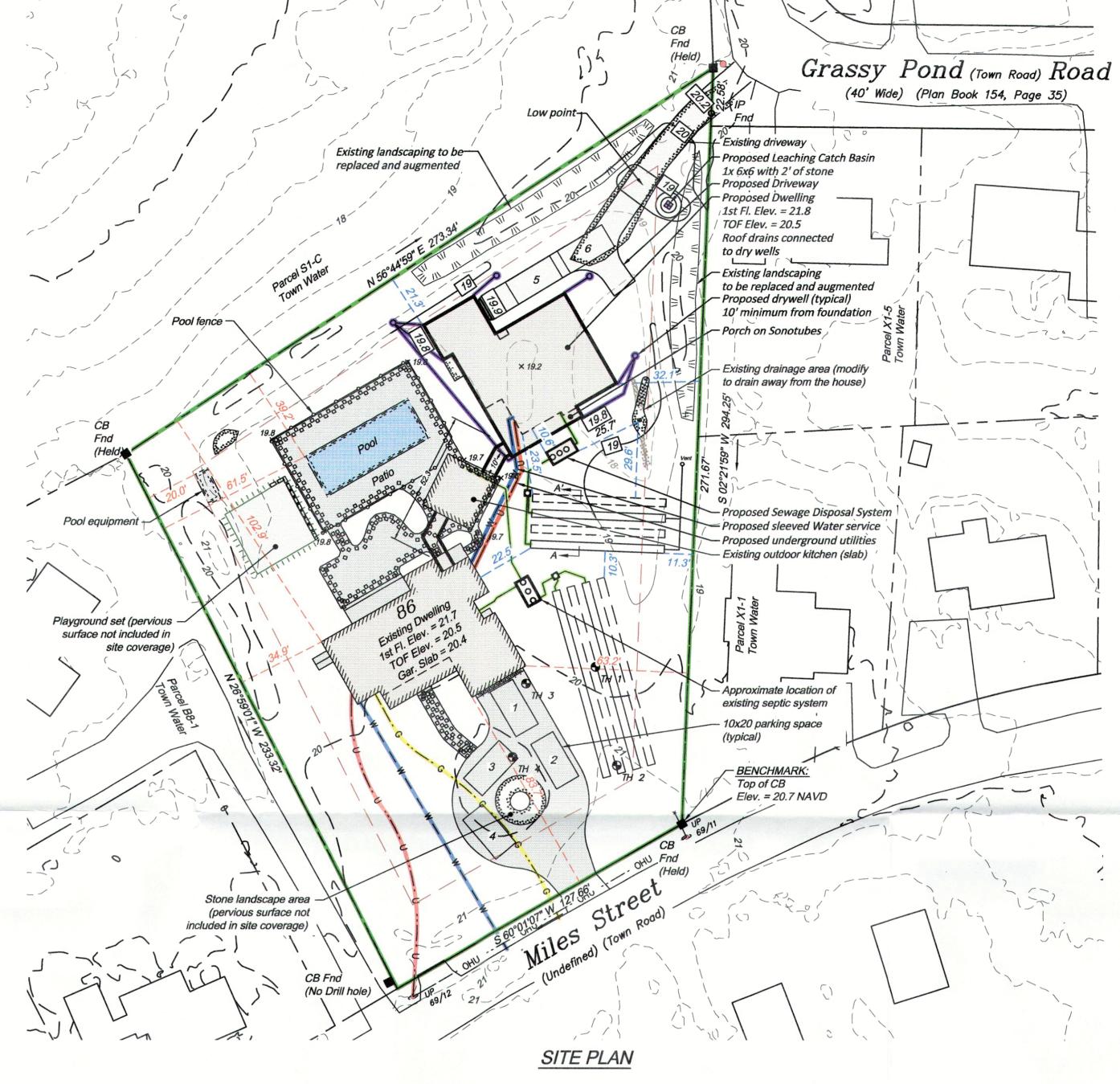
C 10YR5/6 Medium Sand Loose

1.) Basis of Design Number of Bedrooms: Other: (Future Bedrooms)	3 2
2.) Design Daily Flow Sewage Flow:	550 GPD
 Septic Tank Capacity Required: Provided: 	1500 Gal. 1500 Gal.
4.) Soil Absorption System Capacity	
Required:	550 GPD
Provided:	556 GPD*

5.) A garbage disposal is NOT permitted with this design

* [2 x (2' + 3' + 2') x 52 L.F. + 4 ends x 2' x 3'] x 0.74 GPD/S.F.

Zoning Compliance Table						
Zone	RL (Residential)					
	Existing	Required	Proposed			
Lot area	47,565 S.F.±	40,000 S.F.	47,565:S.F.±			
or	1.092 Ac.±	0.918 Ac.	1.092 Ac.±			
Frontage	127.66 Ft.	150 Ft.	127.66 Ft.			
Front 1 setback	83.7:Ft.	25 Ft.	83.7 Ft.			
Side 1 setback	34.9 Ft.	20 Ft.	34.9 Ft.			
Side 2 setback	63.2 Ft.	20 Ft.	32.1:Ft.			
Rear setback	39.2 Ft.	20 Ft.	21.3 Ft.			
Building coverage	3,065 S.F.±	7,135 S.F.	5,885 S.F.±			
or	6.44%	15%	12.37%			
Site coverage	11,010 S.F.±	14,270 S.F.	14,153 S.F.±			
or	23.15%	30%	29.76%			
Building height	27.1 Ft.±	30 Ft.	27.1 Ft.±			







(1.5' to 2.3')

Locus Map 1" = 2,000' Nantucket Sound Harwich, Massachusetts Assessors' ID: 14/B9-0-R

Proposed Second Floor

SEWAGE DISPOSAL SYSTEM 86 Miles Street, Harwich, Massachusetts February 1, 2023

OWNER OF RECORD: Oliver Holmes, LLC Deed Book 27,789, Page 326

Proposed First Floor

Date	
03-03-20.	
10-18-20.	
01-02-20	

OLIVER HOLMES, LLC

EAST-SOUTHEAST, LLC

www.ese-llc.com office@ese-llc.com 1038 Main Street, Chatham, MA 02633 (508) 945-3965 ° Fax.: (508) 945-5885



Vertical Datum: NAVD '88 Horizontal Datum: NAD '83 (2011)

Scale: 1" = 30' (U.S. Survey Feet) H-4163-02.0 Sheet 1 of 1

PROFILE OF SYSTEM

(Not to Scale)

