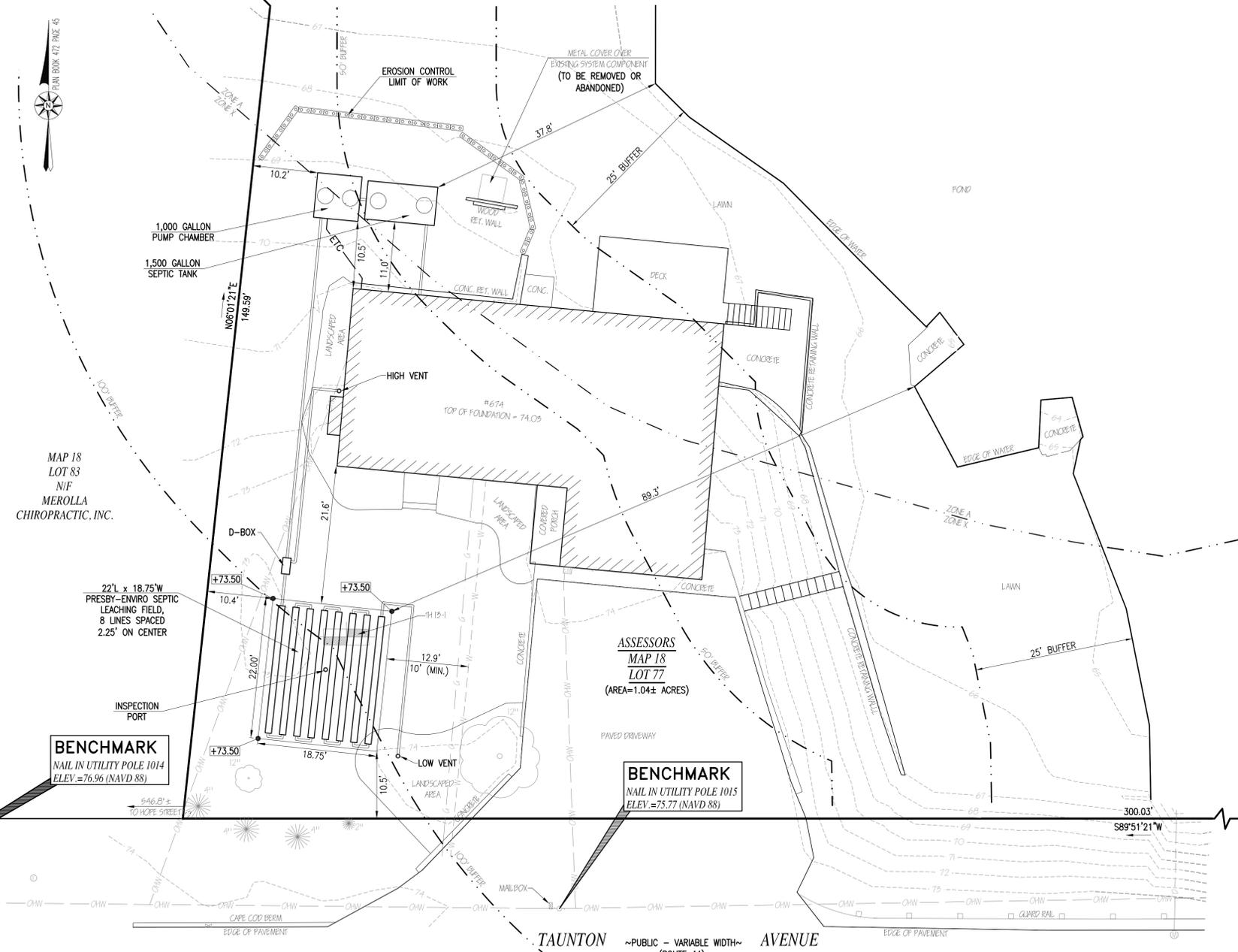


SOIL LOGS

T.H. #13-1
ELEV.=73.1±
9/10/13

DEPTH (FEET)	SOIL TYPE	PERCENT SAND	PERCENT SILT	PERCENT CLAY	PERCENT ORGANIC
0'-28"	FILL	70.8			
28'-36"	AB. HORIZON SANDY LOAM 10YR 3/2	70.1			
36'-48"	B HORIZON SANDY LOAM 10YR 5/4				
48'-96"	C HORIZON LOAMY SAND 2.5Y 4/2	69.1	1.8	1.8	2.5
REDOX					
θ 72°					
ELEV.=67.1±					

SUBSURFACE SEWAGE DISPOSAL SYSTEM (NOT TO SCALE)



PUMP NOTES:

- CONTRACTOR IS REFERRED TO TITLE V 310 CMR 15.231: (7, 8 & 9).
- CONTRACTOR IS REFERRED TO DEP: "GUIDELINES FOR THE CONSTRUCTION, OPERATION AND MAINTENANCE OF SMALL SEWAGE TREATMENT FACILITIES WITH LAND DISPOSAL" PAGE 54 TO 57 DATED: JAN. 1988.
- CONTRACTOR TO VERIFY POWER SUPPLIED BY ELECTRIC COMPANY PRIOR TO CONFIGURING PUMPS. A STEP TRANSFORMER AND/OR ROTOPHASE MAYBE NECESSARY.
- ELECTRICAL PERMITS WILL BE REQUIRED FOR INSTALLATION OF ELECTRIC SYSTEMS.
- PUMPS MUST BE INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR.
- PROVIDE EXPLOSION PROOF FITTINGS & JUNCTION BOXES FOR ALL PUMP COMPONENTS PER TITLE V SPECIFICATIONS.
- CONTRACTOR TO VERIFY JUNCTION BOX LOCATION WITH ELECTRICAL INSPECTOR.
- HIGH WATER ALARM REQUIRED.
- CONTRACTOR MUST CHECK PUMPS STARTING & RUNNING AMPS VS. PUMP SPECIFICATIONS.
- ALARMS: TO BE ON SEPARATE CIRCUIT FROM PUMPS, TO HAVE BACKUP POWER IN CASE OF ELECTRIC FAILURE, TO BE AUDIO & PLACED IN A COMMON AREA & TO INDICATE WHICH PUMP CAUSED THE ALARM.
- GENERATOR: TO BE AVAILABLE IN CASE OF ELECTRIC FAILURE (RECOMMENDED).
- THE MOTOR CONTROL CENTER SHALL BE LOCATED OUTSIDE OF THE WET WELL AND PROTECTED BY A CONDUIT SEAL OR OTHER APPROPRIATE SEALING METHOD MEETING THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE FOR CLASS I, DIVISION 2 LOCATIONS.
- THE PUMP MOTOR SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE FOR CLASS I, DIVISION 2 LOCATIONS.
- ALL PUMP COMPONENTS TO BE EASILY MAINTAINED & ACCESSIBLE FOR REPAIRS TO MINIMIZE THE NEED FOR CONFINED SPACE ACCESS.

PUMP SPECIFICATION TABLE

PUMP MODEL:	MYERS PUMPS
PUMP SERIES:	MW50 SERIES
HORSE POWER:	1/2
PUMP RATING: TDH (FT) (115%)	10.0±
PUMP RATING: GPM	20±
DISCHARGE SIZE (IN):	2
MOTOR SPEED (RPM):	1625
PHASE (Ø):	1
VOLTAGE (V):	115-230
AVAILABLE VOLTAGE:	TO BE DETERMINED BY A LICENSED CONTRACTOR
HERTZ (Hz):	60
SPHERICAL SOLID CAPACITY: (1 1/4" MIN REQ'D)	2"
ALARM & LIGHT LOCATION:	BASEMENT
CONTROL PANEL LOCATION:	BASEMENT

SEPTIC DESIGN: (NOT DESIGNED FOR GARBAGE GRINDER)

- DESIGN DAILY FLOW: 3 BR. x 110 GPD = 330 GPD
- SEPTIC TANK: 330 GPD x 2 = 660 GAL. USE: 1,500 GAL. TANK. (MIN.)
- LEACHING AREA: P.R. = >2 MIN/IN, CLASS II, E.L.R. = 0.60 GPD/S.F. REQUIRED AREA: 330 GPD/0.60 GPD/S.F. = 550 S.F. x 60%* = 330 S.F. (400 S.F. MIN. FOR REMEDIAL USE) PROVIDED AREA: 1 x 22.0' x 18.75' = 412 S.F. > 400 S.F. CAPACITY: 412 S.F. x 0.60 GPD/S.F. = 247 GPD > 330 GPD x 60%* = 198 GPD
- ENVIRO-SEPTIC PIPE REQUIRED: 150 LF PROVIDED: 160 LF PER. D.E.P. APPROVAL FOR REMEDIAL USE, REVISED MARCH 19, 2013.

SEPTIC NOTES:

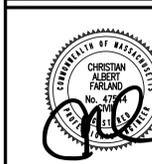
- T.H. 13-1 PERFORMED BY STEVE CARVALHO OF THOMPSON FARLAND, INC. WITNESSED SEEKONK BOARD OF HEALTH ON 9/10/13.
- ENGINEER SHALL SET BENCHMARK WITHIN 50' OF SYSTEM PRIOR TO START OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL STANDARDS AND REGULATIONS.
- SOIL TESTING PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS OF MASSACHUSETTS ENVIRONMENTAL CODE, TITLE 5.
- EXISTING SOIL ABSORPTION SYSTEM TO BE ABANDONED OR REMOVED IN ACCORDANCE WITH 310 CMR 15.354.
- THERE ARE NO SURFACE WATER SUPPLIES OR WETLANDS BORDERING SURFACE WATER SUPPLIES OR PUBLIC WELLS WITHIN 200' OF SITE.
- THERE ARE PRIVATE WELLS WITHIN 200' OF SITE.
- THERE ARE NO BORDERING VEGETATED WETLANDS OR INLAND BANKS WITHIN 100' OF LEACHING AREA.
- THERE ARE NO SURFACE OR SUBSURFACE DRAINS WHICH ARE USED TO LOWER THE GROUND WATER ON THE SITE.
- THERE ARE NO VERNAL POOLS WITHIN 100' OF SITE.
- SITE IS NOT WITHIN A NITROGEN SENSITIVE AREA.
- EFFLUENT BEING DISCHARGED TO THE SYSTEM CAN BE ASSOCIATED WITH NORMAL STRENGTH DOMESTIC USE ONLY.
- FOR PROPER PERFORMANCE, THE SEPTIC TANK SHOULD BE PUMPED ANNUALLY.
- ANY ALTERATIONS MUST BE APPROVED IN WRITING BY THE DESIGN ENGINEER. ANY CONDITIONS ENCOUNTERED DURING CONSTRUCTION DIFFERING FROM THOSE SHOWN HEREON OR REPORTED HEREIN SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION CONTINUES.
- TEST HOLE INFORMATION SHOWN HEREON IS LIMITED TO SOIL CONDITIONS FOUND AT THAT PARTICULAR TEST HOLE LOCATION AND IS NOT TO BE CONSIDERED AN IMPLIED OR EXPRESSED WARRANTY OF SOIL CONDITIONS BEYOND THE LIMITS OF SUCH TEST HOLES.
- SYSTEM CAN NOT BE BACKFILLED OR CONCEALED UNTIL DESIGN FIRM AND BOARD OF HEALTH HAVE INSPECTED THE SYSTEM AND PERMISSION TO BACKFILL HAS BEEN GIVEN.
- DESIGN FIRM MUST PREPARE AND SUBMIT "AS BUILT" PLAN TO BOARD OF HEALTH. THIS PLAN MUST CERTIFY THAT THE SYSTEM WAS INSTALLED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AND THAT IT COMPLIES WITH PROPOSED PLAN. THEREFORE, THE CONTRACTOR MUST NOTIFY THOMPSON FARLAND, INC. IN ADVANCE FOR PERIODIC INSPECTIONS OF THE CONSTRUCTION AT THE FOLLOWING MINIMUM POINTS:
 - SEPTIC TANK EXCAVATION WITH STONE PRIOR TO SEPTIC TANK PLACEMENT.
 - LEACHING FIELD EXCAVATION PRIOR TO BACKFILLING WITH "SEWER SAND".
 - "SEWER SAND" BACKFILL - MUST PASS SIEVE TEST.
 - ALL PIPING AND CHAMBER ELEVATIONS PRIOR TO BACKFILL.
 - FINAL GRADING OVER ENTIRE SYSTEM.

GENERAL NOTES:

- PROPERTY LINE & TOPOGRAPHIC SURVEY PERFORMED BY THOMPSON FARLAND, INC. IN SEPTEMBER OF 2013.
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE LOCATION OF UNDERGROUND UTILITIES WAS TAKEN FROM THE BEST AVAILABLE INFORMATION AND IS NOT WARRANTED TO BE CORRECT, NOR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND AGENCIES PRIOR TO CONSTRUCTION FOR THE LOCATION OF UNDERGROUND UTILITIES.
- BY GRAPHIC PLOTTING ONLY, THE PROPERTY DEPICTED ON THIS PLAN FALLS IN ZONE "X" AND ZONE "A", AS SHOWN ON THE FLOOD INSURANCE RATE MAP No. 25005C0204F, EFFECTIVE DATE: JULY 7, 2009.

REVISIONS

NO.	DATE	DESCRIPTION



THOMPSON FARLAND
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NEW BEDFORD | TAUNTON | CAMBRIDGE | MARLBOROUGH

DRAWN BY: CKG
DESIGNED BY: CKG
CHECKED BY: CAF

SUBSURFACE SEWAGE DISPOSAL SYSTEM
674 TAUNTON AVENUE
ASSESSORS MAP 18 LOT 77
SEEKONK, MASSACHUSETTS
PREPARED FOR: SHERRY HOLM 674 TAUNTON AVENUE SEEKONK, MA 02771

SEPTEMBER 30, 2013
SCALE: 1"=10'
JOB NO. 13-680
LATEST REVISION:

RECORD OWNER:
ASSESSORS MAP 18 LOT 77
MARK C. HOWELL & SHERRY L. HOLM
674 TAUNTON AVENUE
SEEKONK, MA 02771
DEED BOOK 6075 PAGE 182