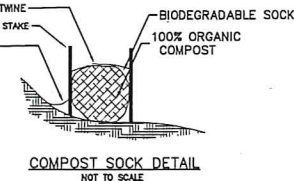
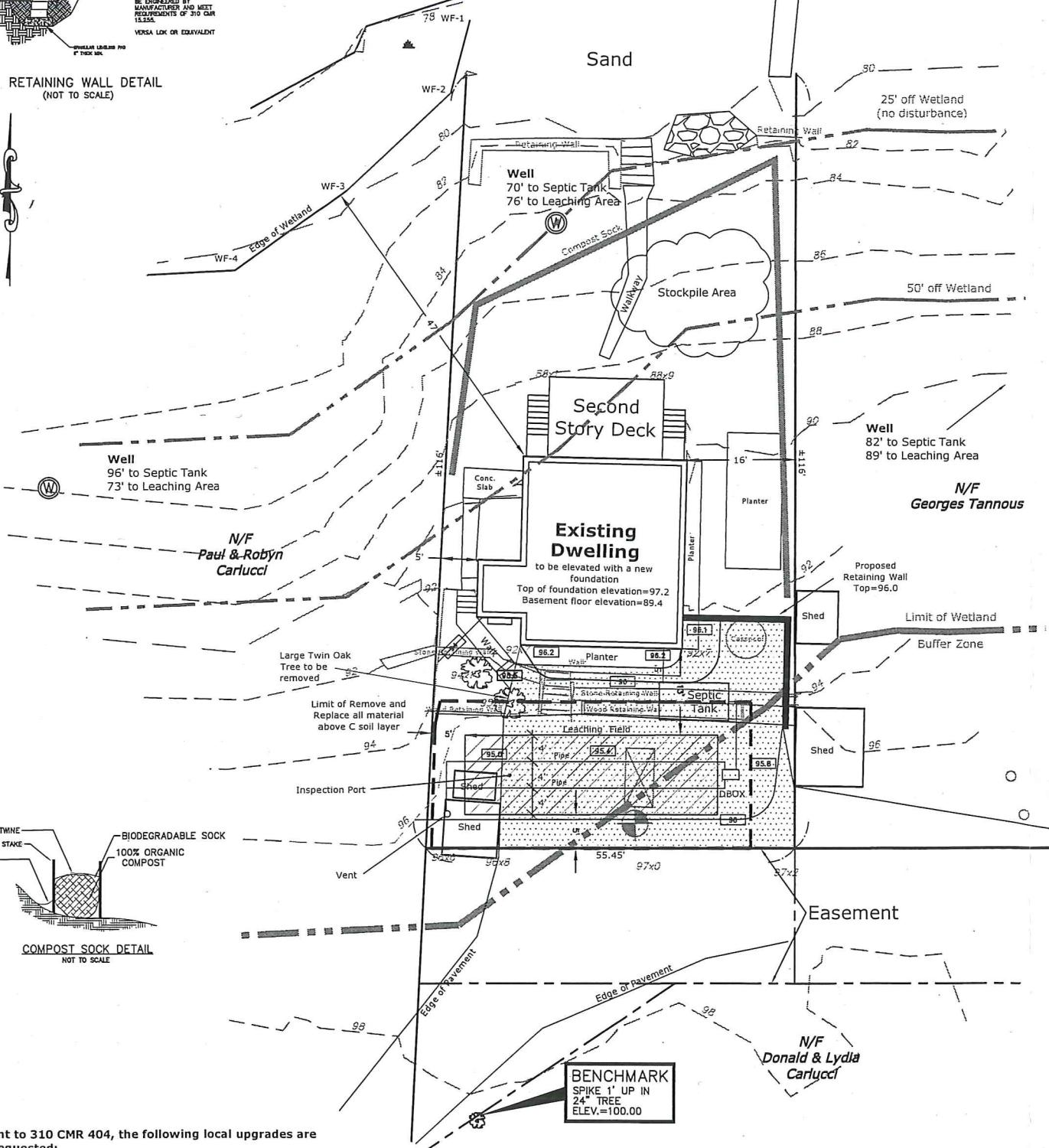


Uncas Pond Edge of Water (4/29/22)

RETAINING WALL DETAIL (NOT TO SCALE)

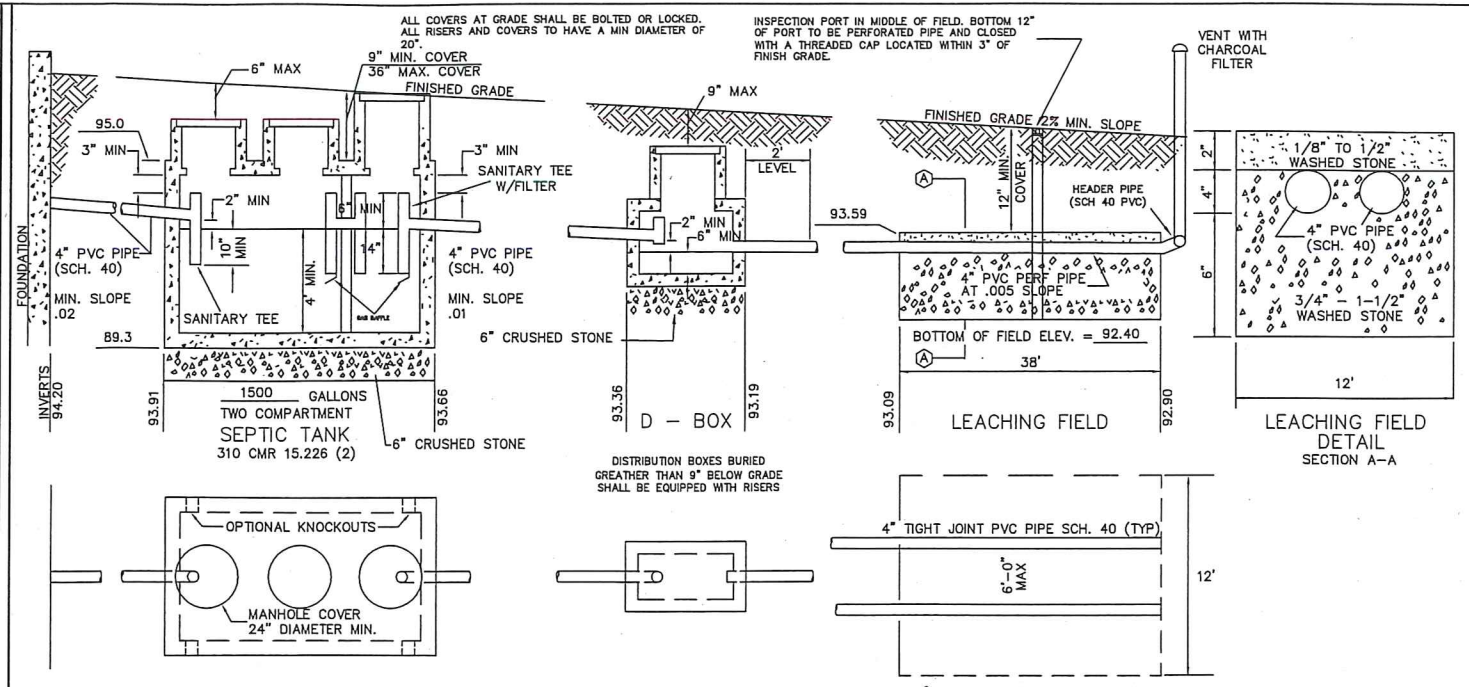


Pursuant to 310 CMR 404, the following local upgrades are being requested:

- 15.405(a) Setbacks to property lines (10' required) (5' proposed)
- 15.405(b) Setbacks to cellar wall (20' required) (13' proposed)
- 15.405(d) Setbacks to private wells from leaching area (100' required) (76', 73', 89' proposed)
- 15.405(k) Less than 2 deepholes (allow 1 deephole test)

Notes:

- All observed wells within 150' of the proposed septic system are noted on the plan.
- Wetland was delineated by Northeast Ecological Services
- Sheds are to be moved
- Existing cesspool is to be pumped and filled with clean material



PLAN & PROFILE

DATE: NORMAN G. HILL P.E. # 31887

LEGEND

SW	STONE WALL	CB	CATCH BASIN
TL	TREE LINE	BM	BENCH MARK
SMH	SEWER MANHOLE	UP	UTILITY POLE
DMH	DRAIN MANHOLE	HYD	FIRE HYDRANT
W	WELL	PRC	PERC TEST
EC	EROSION CONTROL	DH	DEEP HOLE
---	PROPOSED CONTOUR	SE	PROPOSED SPOT ELEV.
---	EXISTING CONTOUR	SE	EXISTING SPOT ELEV.

ZONING

AREA	MIN. REQUIRED
FRONTAGE	
FRONT YARD	
SIDE YARD	
REAR YARD	

GENERAL NOTES

1. ALL ELEVATIONS REFER TO ASSUMED DATUM. SEE PLAN FOR BENCHMARK LOCATION
2. ALL CONSTRUCTION SHALL CONFORM TO 310 CMR 15.00, TITLE V AND THE REGULATION OF THE TOWN'S BOARD OF HEALTH.
3. THIS PLAN DOES NOT WARRANT OR IMPLY ANY SUBSURFACE SOIL CONDITIONS OTHER THAN THOSE OBSERVED AT THE IMMEDIATE TEST PIT LOCATIONS. IF UNSUITABLE MATERIAL IS ENCOUNTERED, ALL CONSTRUCTION SHALL CEASE, AND THE DESIGN ENGINEER SHALL BE CONTACTED IMMEDIATELY.
4. ALL TANKS, D-BOXES, AND CHAMBERS SHALL BE SET LEVEL AND TRUE TO GRADE ON A LEVEL MECHANICALLY COMPACTED STABLE BASE AND ONTO WHICH SIX INCHES OF CRUSHED STONE HAS BEEN PLACED TO MINIMIZE UNEVEN SETTLING.
5. IF THE D-BOX IS DOSED OR THE INLET SLOPE EXCEEDS 8X, AN INLET TEE SHALL BE REQUIRED.
6. AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED TO MINIMIZE EROSION. THE AREA OVER THE SYSTEM SHALL BE GRADED TO A MINIMUM OF 2% SLOPE TO PROVIDE POSITION SURFACE DRAINAGE.
7. THIS PLAN SHALL NOT BE USED FOR THE REPRODUCTION OF PROPERTY LINES, NOR SHALL IT BE USED AS A MORTGAGE PLOT PLAN OR TITLE SURVEY. CONFORMANCE TO LOCAL BYLAWS SHALL BE DETERMINED BY THE OWNER PRIOR TO CONSTRUCTION.
8. THE OWNER IS RESPONSIBLE FOR THE DETERMINATION OF THE LOCATIONS OF ALL BURIED UTILITIES.
9. FOR PROPER PERFORMANCE, THE SEPTIC TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND PUMPED WHEN THE TOTAL DEPTH OF SOLIDS EXCEEDS 1/4 THE LIQUID DEPTH OF THE TANK.
10. ANY ALTERATIONS MUST BE REPORTED TO THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
11. THE SYSTEM MUST BE INSPECTED DURING CONSTRUCTION BY THE BOARD OF HEALTH OR ITS AGENT AND THE DESIGN ENGINEER AND BE CERTIFIED BY THE DESIGN ENGINEER.
12. NO STRUCTURE MAY BE CONSTRUCTED OVER THE RESERVE AREA.
13. CONSERVATION COMMISSION MAY BE REQUIRED.
14. THE SYSTEM SHALL BE VENTED IF THE TRENCH LENGTH EXCEEDS 50', THE SYSTEM IS PUMPED OR DOSED, OR IS COVERED BY PAVEMENT.
15. SEE 310 CMR 15.255 FOR FILL SPECIFICATIONS. SEE 310 CMR 15.247 FOR AGGREGATE SPECIFICATION.
16. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
17. HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK AND DISTRIBUTION BOX.
18. WATER SOFTENERS ARE NOT TO BE CONNECTED TO THE SEPTIC TANK.
19. NO IRRIGATION SYSTEMS ARE ALLOWED OVER THE SEPTIC TANK OR D-BOX

SOIL TEST DATA

TEST PERFORMED BY: WILLIAM HALSING #2823
 TEST WITNESSED BY: WADE SAUCIER
 DATE PERFORMED: 6/28/22

DH-1
 Ground Elevation: 96.5
 0-3" Pavement
 3-24" Fill
 24-120" C Medium sand, 10YR7/2, massive, very friable
 Percolation Rate: < 2 minutes per inch
 No evidence of seasonal high groundwater was observed (86.5)

DESIGN DATA

TYPE OF BUILDING: Dwelling
 NO. OF BEDROOMS: 3
 LTAR 0.74
 DESIGN FLOW: 3 x 110 GAL = 330
 SEPTIC TANK VOLUME: 1500 GAL
 FLOW/RATE = SQUARE FOOT REQUIRED: 330/0.74
 MIN. LEACHING AREA REQUIRED: 446

NO GARBAGE GRINDER ALLOWED
 DESIGN PERC RATE: 5 mpi
 TOTAL LEACHING AREA = (L x W)
 38' x 12' = 456 sf
 TOTAL LEACHING RATE = 337 GAL/DAY
 TOTAL LEACHING AREA = 456 SF

DESIGN ELEVATIONS

TOP OF FOUNDATION	97.2 (proposed)	INV @ SEPTIC TANK OUTLET	93.66
CELLAR SLAB	98.7		
INV @ FOUNDATION	94.20	INV @ D-BOX INLET	93.36
INV @ SEPTIC TANK INLET	93.91	INV @ D-BOX OUTLET	93.19
INV @ BEGINNING OF FIELD	93.09		
INV @ END OF FIELD	92.90		
TOP OF FIELD	93.59		
BOTTOM OF FIELD	92.40		

REPAIR OF SUBSURFACE SEWAGE DISPOSAL SYSTEM

CLIENT: Brian Osborne
 30 Uncas Brook Row
 Franklin, MA

LOCATION: 30 Uncas Brook Row
 Franklin, MA

DATE: 11/14/22 SCALE: 1"=10' DESIGNED BY: WDH
 DRAWING NO.: 1 of 1 JOB NO.: B2741 CHECKED BY: NGH

#	DATE	REVISION DESCRIPTION	DRAWN	CHK

LAND PLANNING, INC.
 CIVIL ENGINEERS • LAND SURVEYORS
 ENVIRONMENTAL CONSULTANTS

167 HARTFORD AVENUE
 BELLINGHAM, MA 02019
 508-966-4130 FAX: 508-966-5054 JOB NO.: B2741