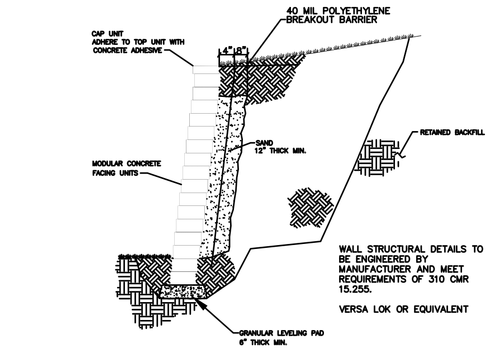
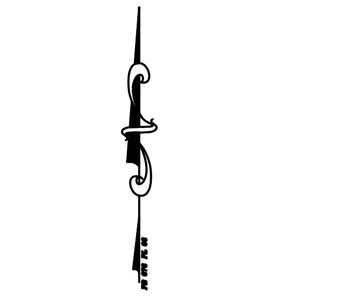
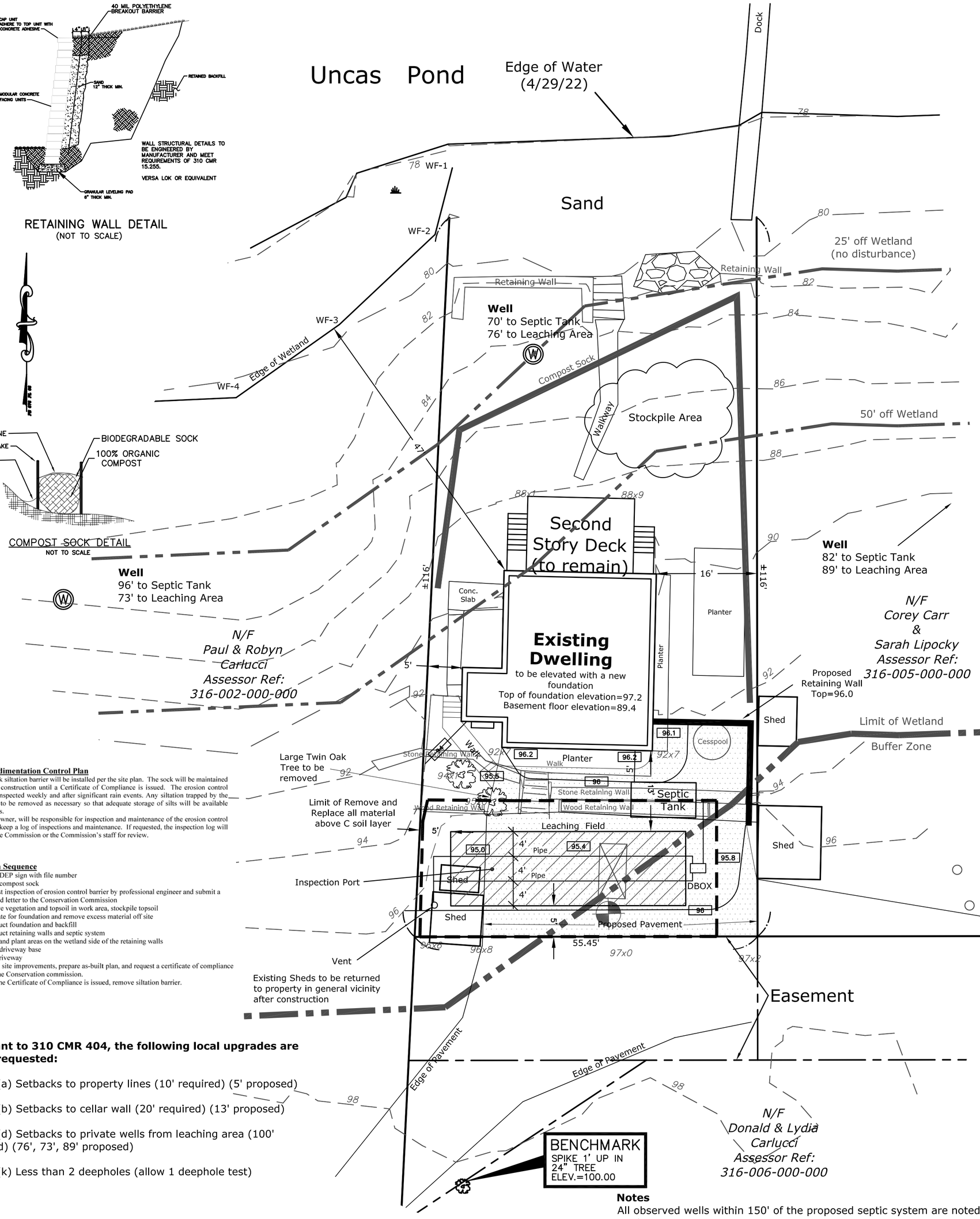


RETAINING WALL DETAIL
(NOT TO SCALE)



COMPOST SOCK DETAIL
NOT TO SCALE



Erosion & Sedimentation Control Plan

The compost sock siltation barrier will be installed per the site plan. The sock will be maintained during and after construction until a Certificate of Compliance is issued. The erosion control barrier shall be inspected weekly and after significant rain events. Any siltation trapped by the compost sock is to be removed as necessary so that adequate storage of silts will be available during rain events.
Brian Osborne, owner, will be responsible for inspection and maintenance of the erosion control barrier and shall keep a log of inspections and maintenance. If requested, the inspection log will be available to the Commission or the Commission's staff for review.

Construction Sequence

1. Install DEP sign with file number
2. Install compost sock
3. Request inspection of erosion control barrier by professional engineer and submit a stamped letter to the Conservation Commission
4. Remove vegetation and topsoil in work area, stockpile topsoil
5. Excavate for foundation and remove excess material off site
6. Construct foundation and backfill
7. Construct retaining walls and septic system
8. Grade and plant areas on the wetland side of the retaining walls
9. Install driveway base
10. Pave driveway
11. Survey site improvements, prepare as-built plan, and request a certificate of compliance from the Conservation commission.
12. After the Certificate of Compliance is issued, remove siltation barrier.

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 graded areas are to be loamed and seeded as soon as possible in order to insure the rapid stabilization of the erosion prone areas. A grass seed mixture of 20% Red Top, 60% Chewings Fescue and 20% Kentucky Bluegrass is recommended. "Hydroseed" with high fiber content.
If there are areas of exposed soils outside of the growing season, the areas shall be stabilized with straw and monitored.
Plantings are to consist of native species, see list in Town of Franklin Best development Practices Guidebook. And review with Conservation Agent
All existing structures to the south of the dwelling are to be removed

Notes

All observed wells within 150' of the proposed septic system are noted on the plan.

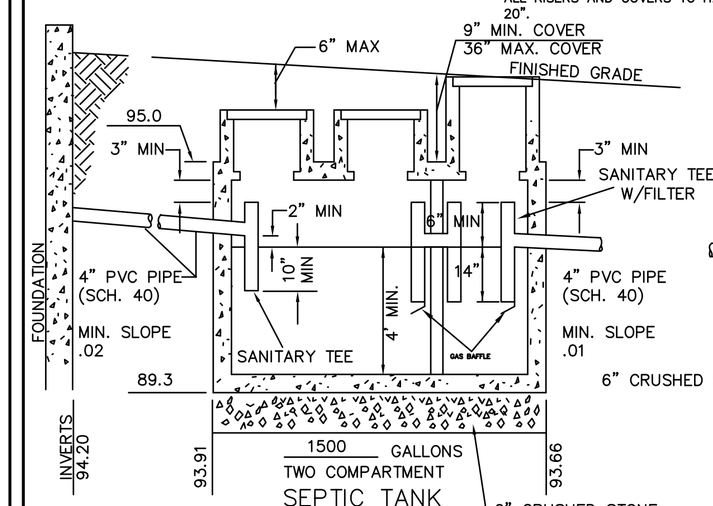
Wetland was delineated by Northeast Ecological Services

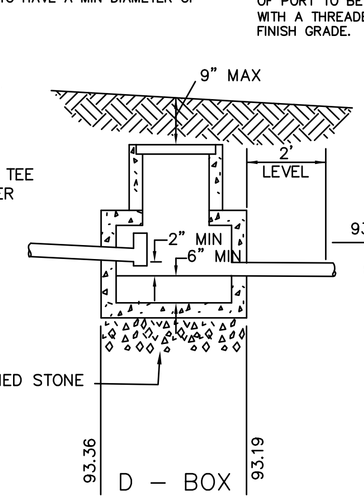
Sheds are to be moved

Existing cesspool is to be pumped and filled with clean material

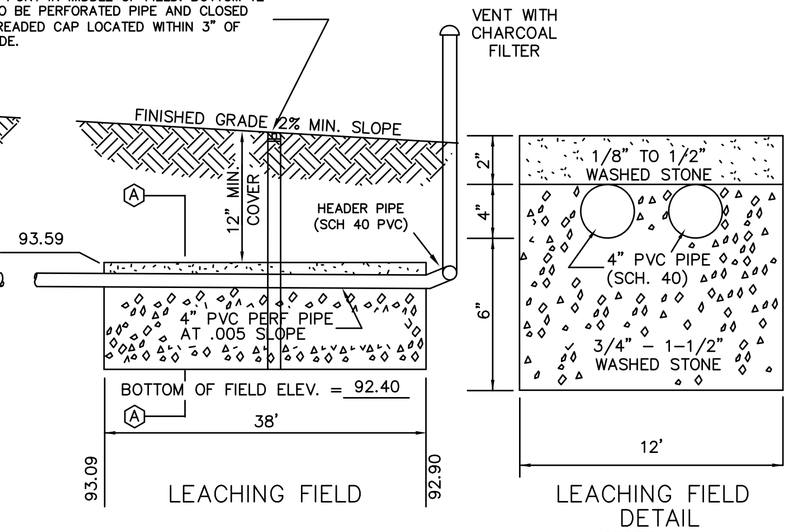
Topography is based upon a field survey on 4/29/22

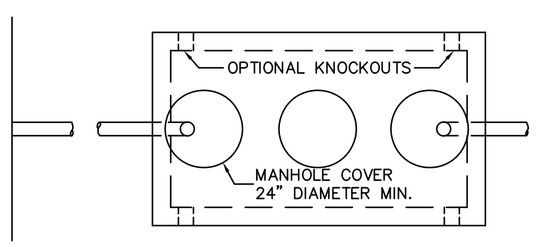
The edge of Uncas Pond is the edge of water, as shown on plan.

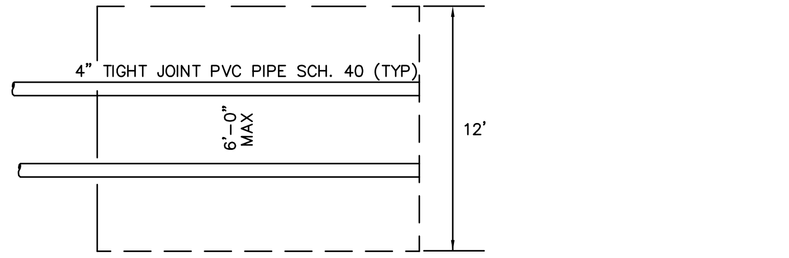




DISTRIBUTION BOXES BURIED GREATHER THAN 9" BELOW GRADE SHALL BE EQUIPPED WITH RISERS







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
90	PROPOSED CONTOUR	99.9	PROPOSED SPOT ELEV.
90	EXISTING CONTOUR	99.9	EXISTING SPOT ELEV.

ZONING

ZONE:

	MIN. REQUIRED
AREA	
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 8%, 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
1	2/23/23	Conservation Comments (Beta)	WDH	NGH

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