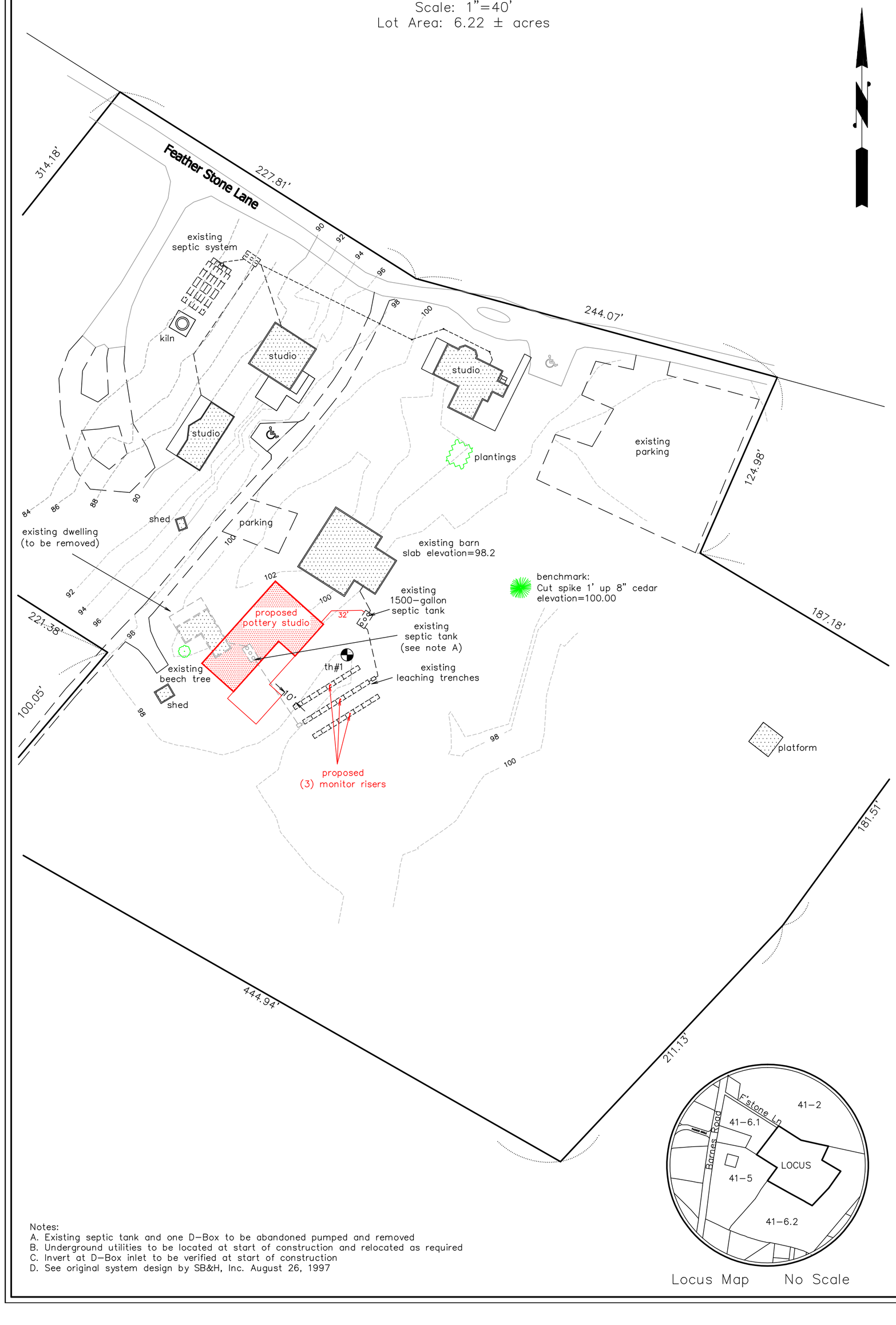
Plot Plan

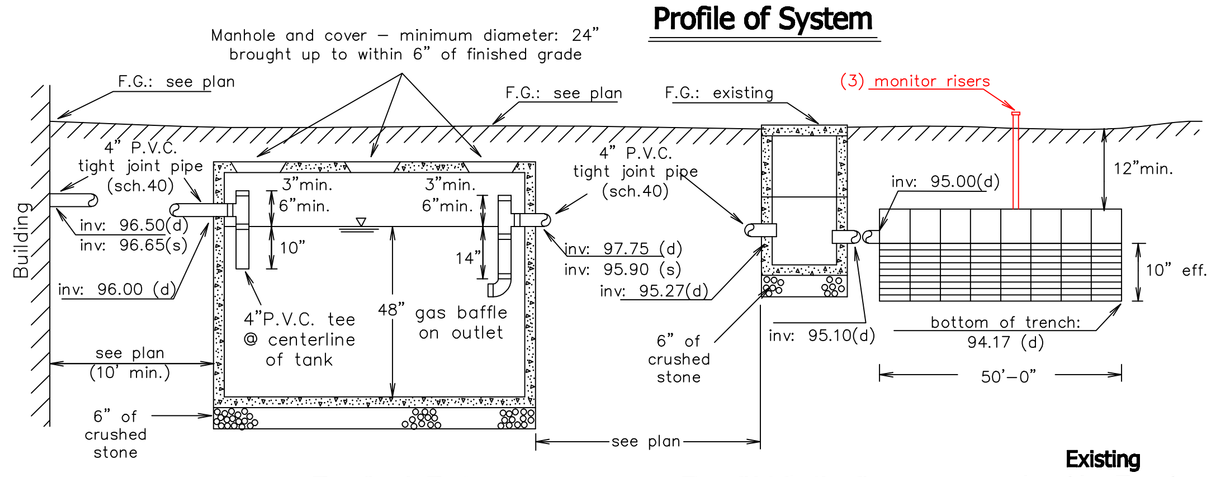
Scale: 1"=40'
Lot Area: 6.22 ± acres



Notes:
A. Existing septic tank and one D-Box to be abandoned pumped and removed
B. Underground utilities to be located at start of construction and relocated as required
C. Invert at D-Box inlet to be verified at start of construction
D. See original system design by SB&H, Inc. August 26, 1997

Locus Map No Scale

Profile of System

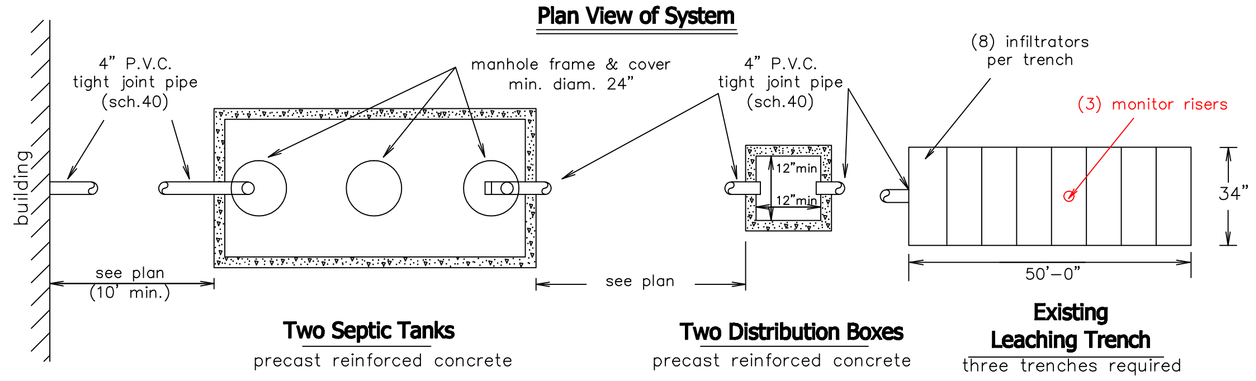


Two Septic Tanks
capacity: 1500 gallons
precast reinforced concrete

Two Distribution Boxes
five outlets
"speed levelers" to be provided

Existing Leaching Trench
three trenches required

Plan View of System

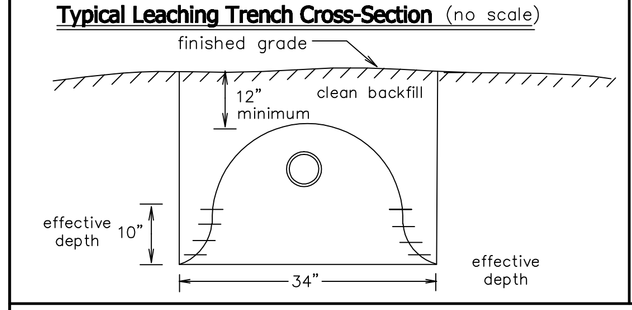


Two Septic Tanks
precast reinforced concrete

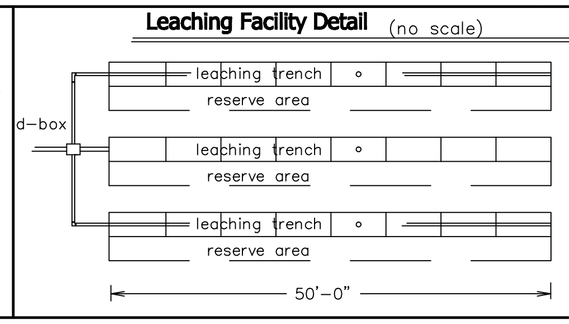
Two Distribution Boxes
precast reinforced concrete

Existing Leaching Trench
three trenches required

Typical Leaching Trench Cross-Section (no scale)



Leaching Facility Detail (no scale)



Schedule of Elevations

	existing barn	proposed pottery studio	Finished Grade Above Structure
Top of Foundation =	98.2/see arch		
Basement floor =	slab/see arch		
Invert of pipe at foundation=	96.50(d)/96.65		see plan
Invert at septic tank inlet =	96.00(d)		
Invert at septic tank outlet =	95.75(d)		see plan
Invert at distribution intlet =		95.27 (d)	
Invert at distribution outlet =		95.10 (d)	existing
Invert of infiltrator inlet =		95.00 (d)	
Elevation of trench bottom =		94.17 (d)	

Deep Test Pit 1 (Surface Elevation: 99.6)
Date: July 29, 1997

Depth	Horiz.	Soil Description
0"–8"	A	Sandy LOAM
8"–26"	B	Silt LOAM
26"–114"	C	SAND & GRAVEL

Groundwater was not encountered at a depth of 114" (elevation: 90.1)

Deep Test Pit
Date:

Depth	Horiz.	Soil Description

Percolation Test Data

test pit #	date	top of 12" of water: depth from top of pit	top of 12" of water: elevation	rate: (mpi)
1	7/29/97	48"	95.6	<5

I certify that on April , 1995, I have passed the examination approved by the Department of Environmental Protections and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.018(2).

General Notes

1. Elevations refer to approximate mean sea level datum. See bench mark on cut spike located 1' up 8" cedar (elev: 100.00)
2. Finished grading to be done in accordance with plot plan.
3. Percolation tests to be performed in accordance with the instructions of Title V of the Massachusetts State Environmental Code.
4. All construction to conform to Title V and Board of Health requirements.
5. All topsoil, subsoil and deleterious material, if any, must be excavated and removed below the leaching field and to a distance of n/a feet from all sides of the leaching field. Excavate down to n/a inches below the surface of the natural permeable soil. Backfill as required with materials meeting the requirements of section 15.255(3) of Title V. Construct trenches in this material.
6. Septic tank and distribution box shall be watertight after construction, including covers.
7. No driveway, parking or turning area or other impervious areas shall be located above the soil absorption system.
8. No permanent structure may be constructed over the 100% expansion area.
9. Schofield, Barbini & Hoehn Inc. will not be responsible for the performance of the system unless constructed as shown. Any alterations must be approved in writing by Schofield, Barbini & Hoehn Inc.
10. The Board of Health shall require inspection of all construction by the design engineer and by the agent of the Board of Health.
11. The design engineer and the system installer shall certify in writing to the approving authority that the system has been constructed in compliance with the approved plans.
12. For proper performance, the septic tank should be inspected at least once a year and when the total depth of scum and solids exceed 1/3 the liquid depth of the tank, the tank should be pumped.
13. Distribution box cover to be brought to finish grade.

Design Data

1. Estimated. Hydraulic Loading:
   Barn: 2100 s.f. at 50 gpd/1000 s.f. =105 gpd
   Studio: 39 students @ 10 gallons per student per day=390 gpd
   Garbage disposal is not allowed with this design. total: 495 gpd
2. Septic Tank Size:
   Required capacity: 105 GPD x 200% = 210 gallons (min.) (BARN)
   Required capacity: 390 GPD x 200% = 780 gallons (min.) (STUDIO)
   Septic tanks provided: Two @ 1500 gallons each
3. Design percolation rate: 5 M.P.I.
   Soil textural class: I
   Loading rate: 0.74 GPD/S.F.
4. Leaching Area:
   Total leaching area provided: 675 S.F.
5. Maximum Allowable Loading:
   675 S.F. x 0.74 GPD/S.F. x 1.67 = 834 GPD
   Actual hydraulic loading: 495 GPD

Legend

---XX---	Denotes proposed contour
F.G. = XX.X	Denotes proposed finished grade
XX	Denotes existing contour
	Denotes test hole location
P.V.C.	Denotes polyvinyl chloride pipe, Sch. 40, unless noted
	Denotes catch basin
E.H.C.I.	Denotes extra heavy cast iron
— W —	Denotes water service
— P —	Denotes approximate property line
— O.W. —	Denotes overhead wires
— D —	Denotes storm drain pipe

Proposed Sewage Disposal System

To Serve an Existing Barn
and a Proposed 39 Student Pottery Studio
30 Featherstone Way–Assessor Parcel 41–6
Oak Bluffs, Massachusetts

Applicant: Featherstone Center for the Arts Phone: (508) 693-2781
c/o Schofield, Barbini & Hoehn, Inc.
PO Box 339
Vineyard Haven, MA 02568

date: February 3, 2015 | revisions:
designed by: CPA | drawn by: TED | checked by: RJB

Schofield, Barbini & Hoehn, Inc.
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