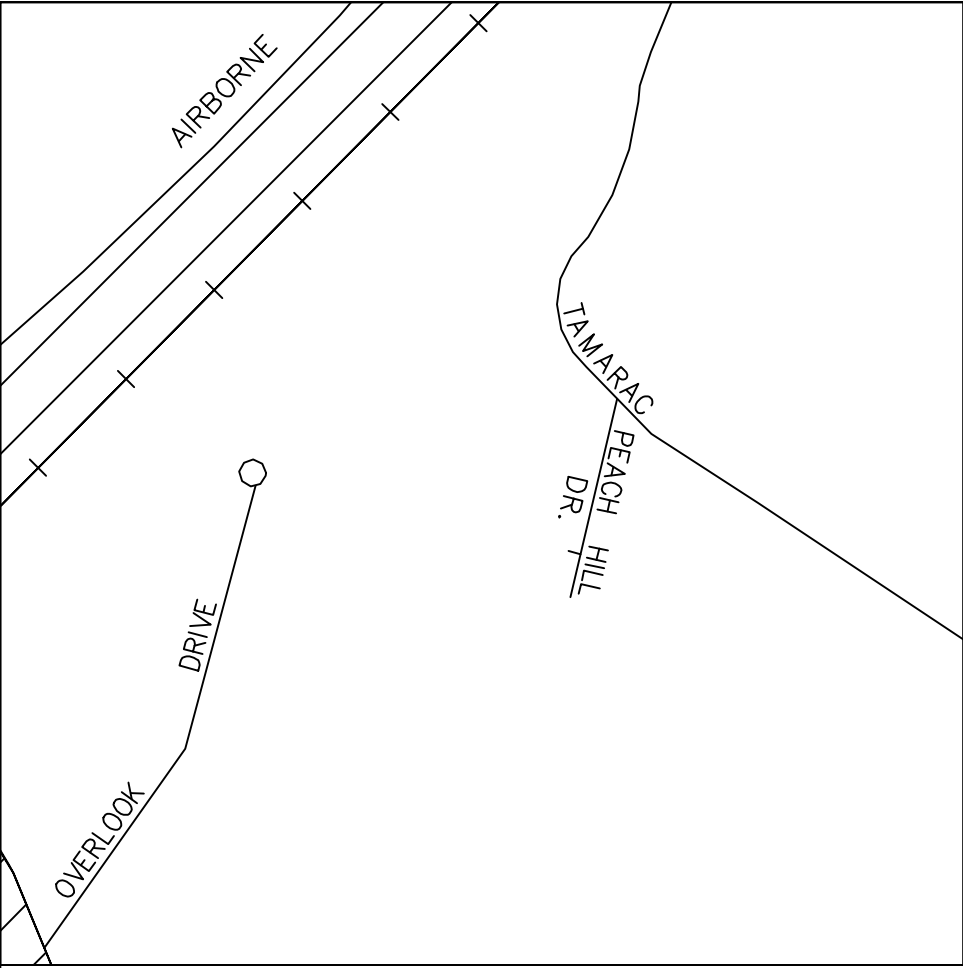




Site Location Plan
Scale: 1"=500'

LEGEND

- | | |
|---------------------------|--------------------------|
| ● WELL | — PROPERTY LINES |
| ● DEEP TEST PITS APROX. | --- SETBACK LINES |
| ● PERCOLATION TEST APROX. | --- SEPTIC |
| △ SURVEY CONTROL POINT | --- SEPTIC TO BE REMOVED |
| | --- SELECT FILL |
| | --- WELL SETBACK |
| | --- EXISTING PAVEMENT |
| | --- EXISTING DRIVEWAY |
| | --- EXISTING BUILDING |
| | --- EXISTING 2' CONTOUR |
| | --- EXISTING 10' CONTOUR |
| | --- PROPOSED 2' CONTOUR |

General Notes

- The septic system shown on this plan has been designed to receive domestic sewage only. No industrial, commercial or other wastes are to be discharged into this system. This includes the wash water from pool backwash filters and water softener systems. Such wastes are to be disposed of by other means.
- This plan has been prepared in accordance with all applicable State and Local Health Code Requirements, except where noted hereon. There is no guaranty against failure due to misuse, lack of maintenance, unforeseen and/or changing groundwater conditions or faulty installation. Soil test(s) are only indicators of actual soil conditions, that may vary throughout the septic area. No warranty is expressed or implied on uniform soil conditions.
- To the best of our knowledge there are no wells within 75' of the proposed septic system.
- This septic system design does not account for large bath tubs (over 100 gal) or the use of garbage disposal(s).
- Property survey done by Juliano Associates.

Construction Notes

- The septic system shall be installed in accordance with the requirements of the State of Connecticut Public Health Code Regulations and Technical Standards for Subsurface Sewage Disposal Systems, Local Health Department (LHD) standards and "Design of Subsurface Sewage Disposal Systems for Households and Small Commercial Buildings" as published by the State.
- Septic system location to be staked out by a CT licensed surveyor or a professional engineer. During stake out, an additional benchmark is to be provided in the area of the proposed septic system.
- Select fill material and select backfill material shall be comprised of clean sand and gravel, free from organic matter and foreign substances. The fill material shall meet the following requirements unless otherwise approved by a professional engineer for use within the leaching area:
 - The fill shall not contain any material larger than 3 inches.
 - Up to 45% of the dry weight of the representative sample may be retained on the #4 sieve.
 - The material that passes the #4 sieve is then reweighed and the sieve analysis started.
 - The remaining sample shall meet the following gradation criteria:

SIEVE	PERCENT PASSING
No. 4	100
No. 10	70% - 100%
No. 40	10% - 50%
No. 100	0% - 20%
No. 200	0% - 5%

Note: The percent passing the #40 sieve can be increased to no greater than 75% if the percent passing the #100 sieve does not exceed 10% and the #200 sieve does not exceed 5%.

- The licensed installer is responsible for preparing the leaching area with acceptable select fill. Topsoil in the leaching system area shall be removed and the subsoil scarified prior to select fill placement. The installer shall take the necessary steps to protect the underlying receiving soil from over compaction/damage. The installer is responsible for properly compacting select fill to facilitate construction and to prevent settling. Select fill shall extend a minimum of 2 ft on the sides and up gradient with 5 ft down gradient of the outer perimeter of leaching system.

- Select fill shall be perc tested in place and the rate must be equal to or better than the plan design rate.
- Any changes in the approved site (septic) plan must receive prior approval from the design engineer and sanitation prior to implementation.
- The licensed installer shall be responsible for securing permits and notifying the LHD and engineer for site inspections, and for submitting an as-built to the LHD.
- A sieve analysis shall be provided to the LHD.
- Code Septic Design assumes no responsibility for septic system site preparation, location or invert elevations in compliance with the approved plan, unless it supervises each phase of the system installation.

Design Notes

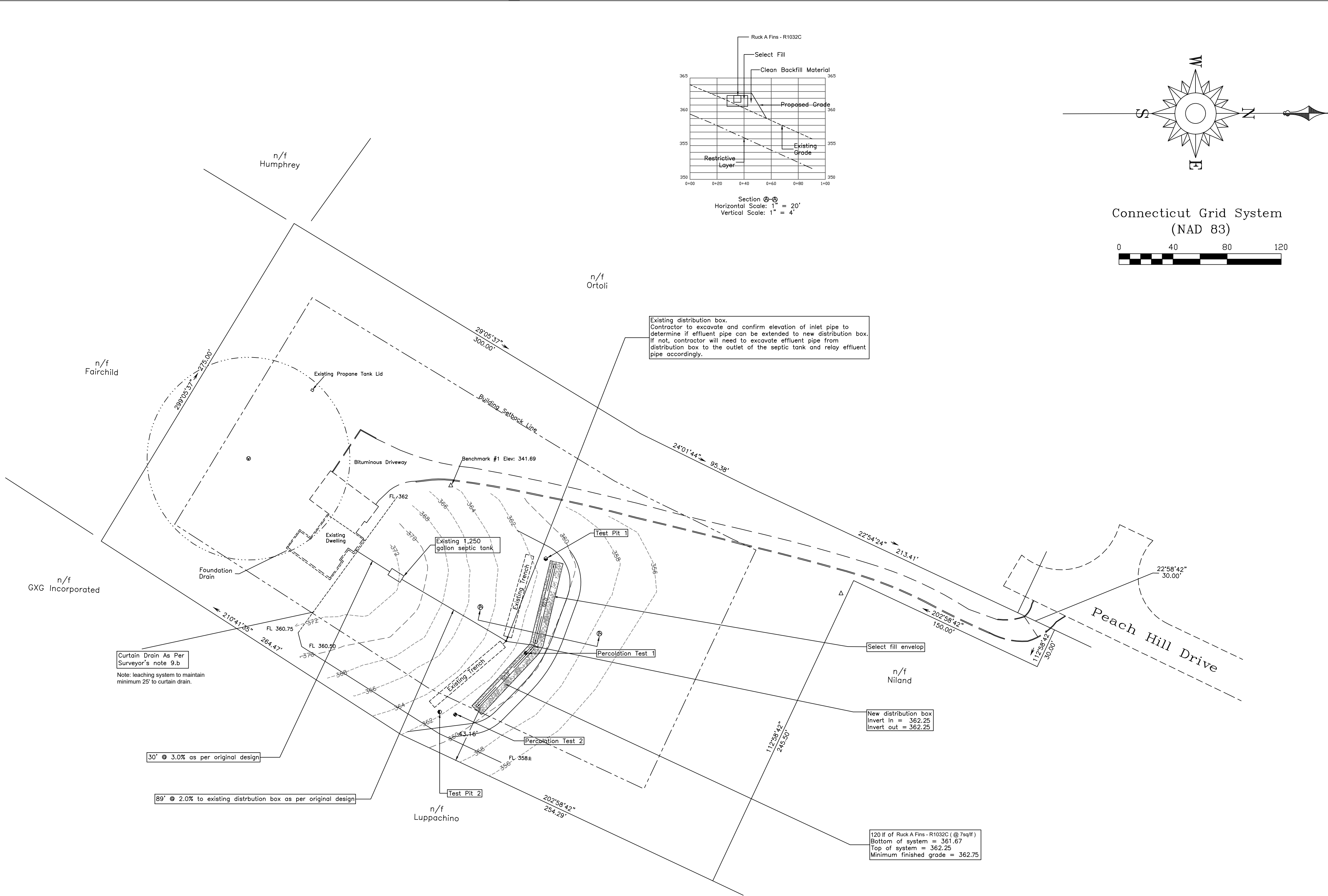
- Effluent pipe shall be tight joint cast iron pipe ASTM A 74, PVC schedule 40 ASTM D 1785, PVC ASTM D2241 SDR 21, ductile iron ANSI A 21.5.1, PVC pressure pipe AWWA C-900, or equal as per the Connecticut public health code. A 4 inch effluent pipe shall maintain a minimum slope of .25 in/ft.
- Distribution pipe shall be 3 inch to 4 inch diameter PVC plastic pipe ASTM D 3034 SDR 35, PVC plastic pipe ASTM D 2729, polyethylene plastic pipe ASTM D 3350 or polyethylene plastic corrugated smooth interior wall pipe N-12, PVC ASTM D2241 SDR 21 or equal as per Connecticut public health code.
- Provide 2ft diameter risers if top of septic tank is greater than 12" below grade. Should the tank cover be removed when equipped with a riser, a secondary safety device shall be provided.
- Existing leaching field is to be disconnected, abandoned, and left in place.
- Licensed septic installer shall follow manufacturers directions for proper Ruck-A-Fins installation. Ruck-A-Fins must use C-33 sand (see manufacturing specs).

Design Data

3	Bedroom House
675	Sq. Ft. of effective leaching area required *
840	Sq. Ft. of effective leaching area provided
MLSS (Minimum Leaching System Spread)	
Average Restrictive Layer	= 22.6"
Average Slope	= 10.5%
Hydraulic Factor (HF)	= 28
Percolation Factor (PF)	= 3.0 **
Flow Factor (FF)	= 1.5
MLSS	= 117 lf

* System to be entirely in select fill, a 20 min/inch perc rate employed for ELA

** If leaching system is entirely in select fill and bottom of system is above original grade and at least 24 inches above maximum groundwater.

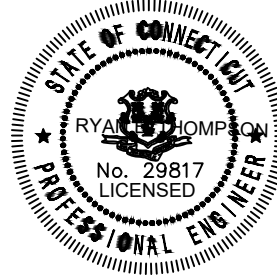


SURVEYOR'S NOTES:

- THIS SURVEY AND MAP HAVE BEEN PREPARED IN CONFORMANCE WITH REGULATIONS AS DEFINED IN THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THRU 20-300b-20, AS AMENDED OCTOBER 26, 2018.
- THE TYPE OF SURVEY PERFORMED IS A LIMITED PROPERTY SURVEY AND IS INTENDED TO DEPICT COMPLIANCE/NON COMPLIANCE WITH APPLICABLE ZONING REGULATIONS.
- THE BOUNDARY DETERMINATION CATEGORY IS AN RESURVEY.
- THIS SURVEY CONFORMS TO A HORIZONTAL ACCURACY STANDARD OF CLASS A-2.
- ANGULAR MEASUREMENTS AND COORDINATES ARE BASED UPON THE CONNECTICUT GRID SYSTEM NORTH AMERICAN DATUM OF 1983, DATUM ESTABLISHED BY GPS UTILIZING THE SUPERIOR INSTRUMENTS GPS NETWORK (GSD 12B).
- THE PROPERTY IS LOCATED WITHIN AN RU-120 ZONE.
- THE LOT AREA IS 144,318± SQUARE FEET (3.31± ACRES).
- THE PROPERTY IS LOCATED WITHIN THE FOLLOWING FLOOD ZONE: ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN.) AS DEPICTED ON FLOOD INSURANCE RATE MAPS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, COMMUNITY PANEL NUMBER 090000 0022 6, DATED JUNE 4, 1990.
- THE PROPERTY ADDRESS IS #4 PEACH HILL DRIVE, WALLINGFORD, CONNECTICUT. ASSESSOR'S DESIGNATION 21B-001-0040.
- REFERENCE IS MADE TO THE FOLLOWING MAP(S):
 - GREENE ACRES SUBDIVISION PLAT PLAN, CELESTIAL LANE, PEACH HILL DRIVE, & TAMARAC SWAMP ROAD WALLINGFORD, CONNECTICUT. SCALE: 1" = 100'. DATE: JUNE 1993, REVISED TO 9/21/93. MAP PREPARED TO CLASS A-2 ACCURACY BY JULIANO ASSOCIATES. SAID MAP ON FILE IN THE WALLINGFORD LAND RECORDS.
 - SITE PLAN LOT 4 GREENE ACRES #4 PEACH HILL DRIVE WALLINGFORD, CONNECTICUT. SCALE : 1" = 40'. DATE: APRIL 22, 1997, REVISED TO 5/8/97. MAP PREPARED TO CLASS A-2 ACCURACY BY JULIANO ASSOCIATES.
- PROPERTY IS SUBJECT/PRIVILEGED TO: RIGHTS, RESTRICTIONS, ENCUMBRANCES, COVENANTS, EASEMENTS, ETC. AS THE RECORD MAY APPEAR.
- THIS BOUNDARY OPINION WAS MADE AND SURVEY MAP PREPARED FROM INFORMATION CONTAINED IN DEEDS AND MAPS OF RECORD ALONG WITH PHYSICAL EVIDENCE LOCATED DURING THE FIELD SURVEY.
- TOPOGRAPHIC INFORMATION COLLECTED ON AUGUST 11, 2022.

WATER TREATMENT SYSTEM NOTE:

EXISTING WATER SOFTENING SYSTEM IS TO BE DISCONNECTED PRIOR TO REPAIRS. THIS SYSTEM IS NOT TO BE RECONNECTED WITHOUT INSTALLATION OF DEDICATED CODE COMPLIANT WASTE WATER TREATMENT/ INFILTRATION SYSTEM.



Code Septic Design LLC
Bethel, Connecticut

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codesepcticdesign@gmail.com
Voice (860) 794-7705

Septic System Repair
Land of
David Gannon
#4 Peach Hill Drive
Wallingford, Connecticut

Project no.:	0-05	Date:	04/15/23	Scale:	1" = 40'
Designed by:	SDUFFY	Drawn/released by:	RTHOMPSON	Sheet:	1 of 2
				Revision:	0

Soil Test Data

Soil testing performed on 7/13/2022 with licensed installer Justin Rosadini and Registered Sanitarian Brittany Nappi. Test pits and perc tests read by Brittany Nappi.

No down-gradient test pit data available - assume 18" restrictive layer for MLSS purposes

Test pit spot elevations were taken in the field and are as follows:	
Test Pit # 1 - 361.25'	Test Pit # 2 - 362.50'

Test Pit # 1 - 71"	Test Pit # 2 - 75"
0" - 8" Topsoil	0" - 8" Topsoil
8" - 22" Sandy Loam	8" - 28" Sandy Loam
22" - 71" Sandy Clay Loam	28" - 75" Sandy Clay Loam

Mottling @ 22"	Mottling @ 28"
Ground water not observed	Ground water not observed
Ledge not observed	Ledge not observed

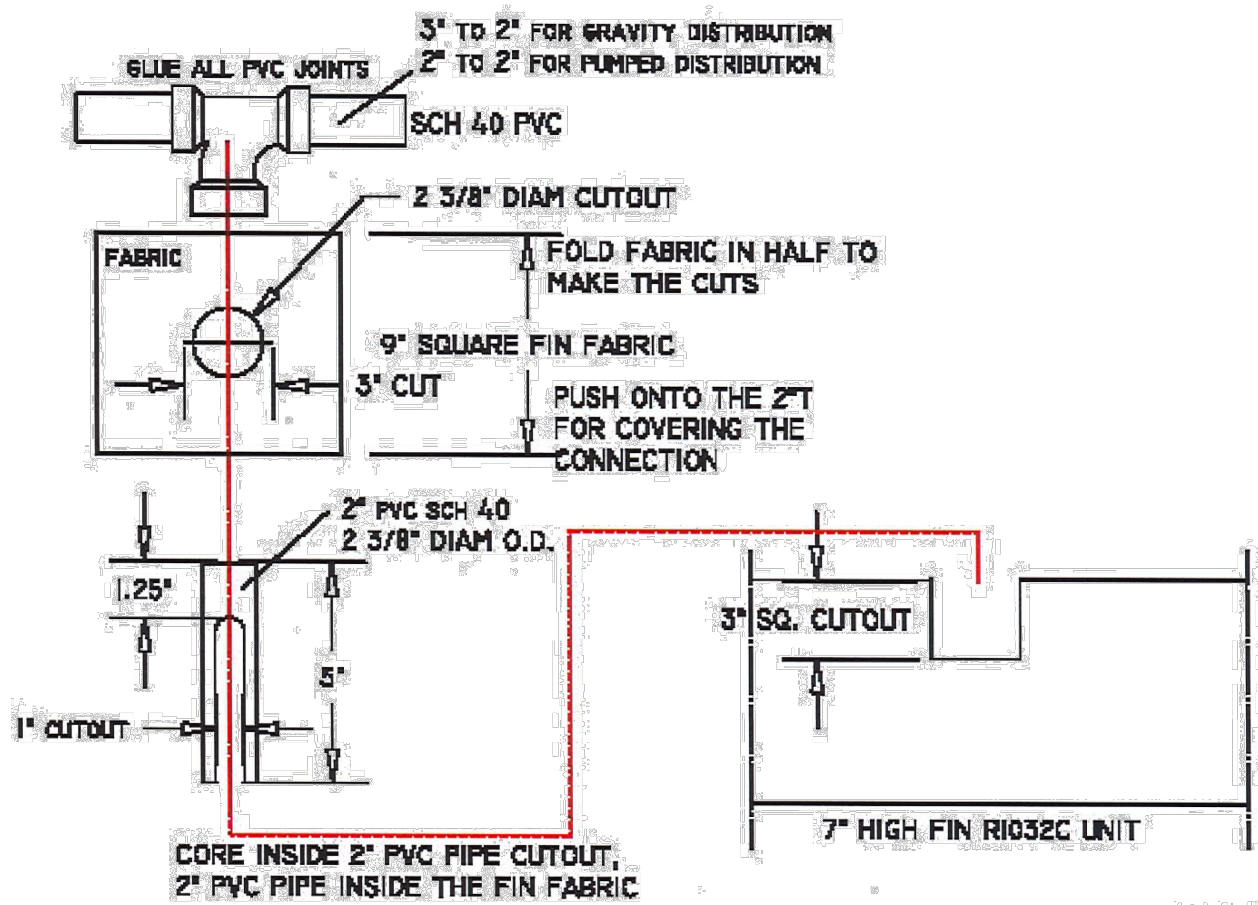
Perc Test # 1	Perc Test # 2
Total depth 12"	Total depth 13"

Time	Reading	Time	Reading
3:15	12"	3:15	13"
3:45	9"	3:45	9"
4:15	8"	4:15	7.5"
4:45	6.5"	4:45	5.5"

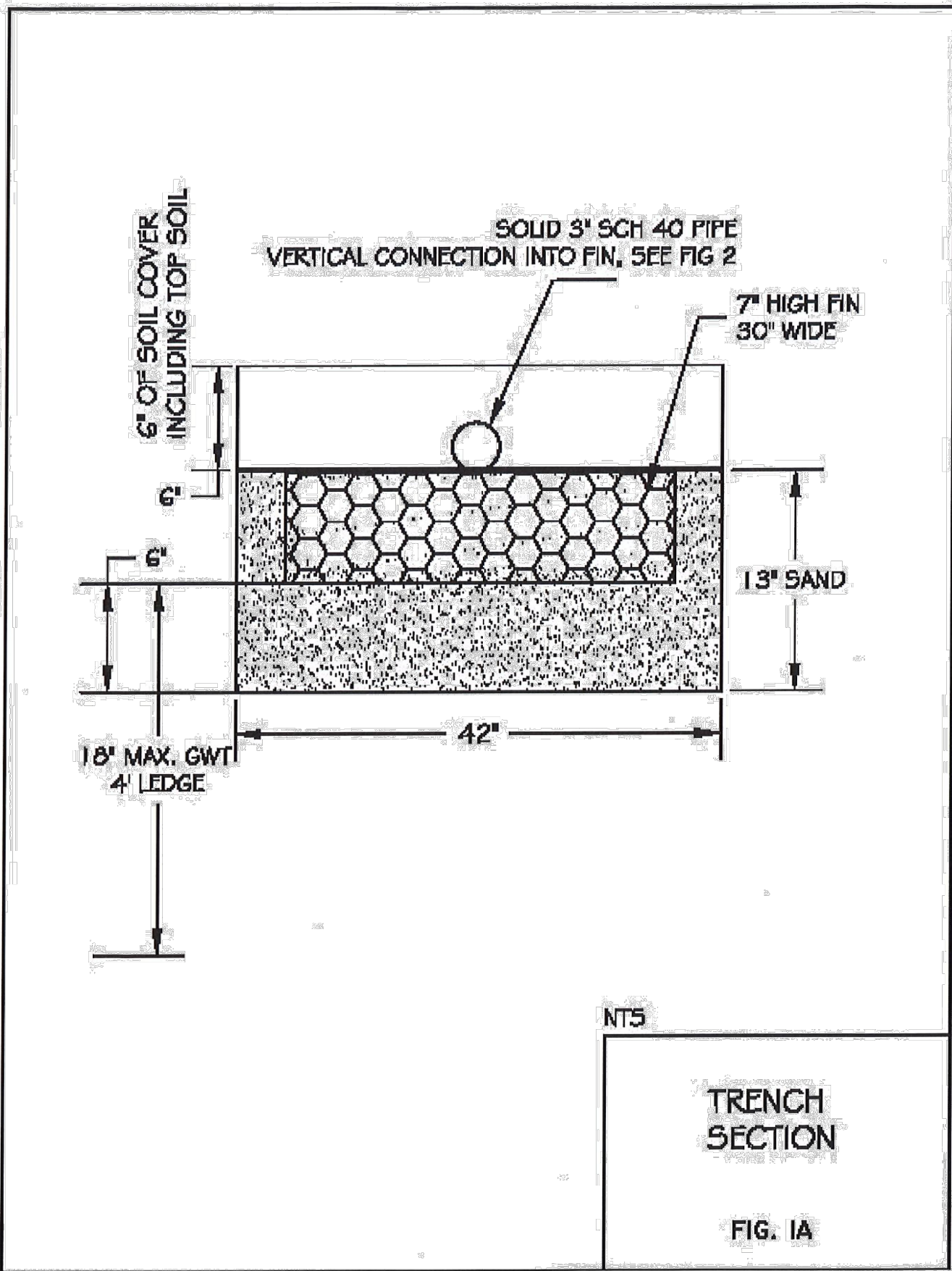
* Perc results 45.1 - 60 minutes / inch

2" VERTICAL CONNECTION AT CENTER OF EACH RI032C UNIT

FIG. 2 VERTICAL CONNECT DETAIL



12

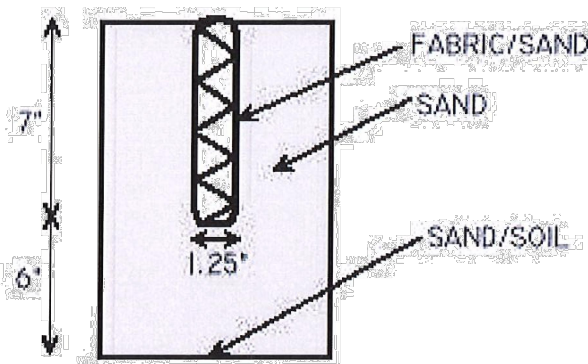


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ELU - CT

RUCK ACCORDION
STATE OF CT PARAMETERS:
SAND LTAR = 0.6 GAL/SFT/D
SOIL 1-10 mpt, TLR = 660 SFT
STONE/SOIL INTERFACE = 1 (FOR STE)
FABRIC/SAND INTERFACE = 1.5 (FOR STE)
SAND/SOIL INTERFACE = 2 (FOR STE)
FOUR BEDROOM HOME, DESIGN FLOW = 600 GAL/D
MEASURED PARAMETERS:
FABRIC LTAR = 1 GAL/SFT/D

RUCK ACCORDION CROSS SECTION



THE RUCK ACCORDION TRENCH EXAMPLE:
ACCORDIONS ARE 7" HIGH
TRENCH IS 42" WIDE
NUMBER OF FEET OF ACCORDIONS PER ONE FOOT OF TRENCH = 8 ft /ft of trench

Septic System Repair
Land of
David Gannon
#4 Peach Hill Drive
Wallingford, Connecticut

REVISIONS	
DATE	DESCRIPTION

Code Septic Design LLC
Bethel, Connecticut

www.codesepticdesign.com
codesepticdesign@gmail.com
Voice (860) 794-7705

Project no.:	0-05	Date:	04/15/23	Scale:	1" = 40'
Designed by:	SDUFFY	Drawn/released by:	RTHOMPSON	Sheet:	2 of 2
				Revision:	0