DEEP TEST PIT DATA

TP 'A'
0 - 12" TOPSOIL
12 - 42" ORANGE BROWN FINE SILTY SAND
42 - 73" LIGHT BROWN FINE SAND AND GRAVEL
MOTTLES: NONE - GW: NONE - LEDGE: NONE - RESTRICTIVE: NONE

TP 'B'
0 - 7" TOPSOIL
7 - 34" DARK BROWN FINE SILTY SAND
34 - 79" LIGHT BROWN FINE SAND AND GRAVEL
MOTTLES: NONE - GW: NONE - LEDGE: NONE - RESTRICTIVE: NONE

TP 'C'
0 - 18" TOPSOIL
18 - 45" DARK BROWN FINE SILTY SAND
45 - 72" LIGHT BROWN FINE SAND AND GRAVEL
MOTTLES: NONE - GW: NONE - LEDGE: NONE - RESTRICTIVE: NONE

TP 'D'
0 - 15" TOPSOIL
15 - 33" ORANGE BROWN FINE SILTY SAND
33 - 72" LIGHT BROWN FINE SAND AND GRAVEL
MOTTLES: NONE - GW: NONE - LEDGE: NONE - RESTRICTIVE: NONE

TEST PITS AS WITNESSED AND DESCRIBED BY RACHEL COLONNI, 7/1/2025

PERCOLATION TEST DATA

PT P1 - 7/21/25
DEPTH: 32"
PRE-SOAK: 10:42 & 10:48
REF. NAIL: 4"

TIME: READING:
10:54 15.00"
10:55 19.50"
10:56 22.25"
10:57 24.50" DRY

PERC. RATE: <1.0 MIN.IN.

PT P2 - 7/21/25
DEPTH: 24"
PRE-SOAK: 12:45 & 12:50
REF. NAIL: 2"

TIME: READING:
12:56 9.50"
12:57 12.00"
12:58 14.00"
12:59 15.50"
13:00 17.00"
13:01 18.25" DRY

PERC. RATE: <1.0 MIN.IN.

PT R - 7/21/25
DEPTH: 34"
PRE-SOAK: 11:00 & 11:04
REF. NAIL: 4"

TIME: READING:
11:10 15.00"
11:11 17.25"
11:12 19.50"
11:13 21.50"
11:14 22.75"
11:15 24.25" DRY

PERC. RATE: <1.0 MIN.IN.

PERCOLATION TESTS CONDUCTED BY DUTCH & ASSOCIATES

BASIS OF SANITARY DESIGN

3 BEDROOM HOUSE - <1.0 Min/In PERC RATE
495 SQ. FT. OF LEACHING AREA REQUIRED
USE 1 TRENCHES 62" WIDE @ 13' CTRS @ LENGTHS SHOWN
506.8 SQ. FT. OF LEACHING AREA PROVIDED
USE MINIMUM 1,000 GALLON SEPTIC TANK.
~~HF x FF x PF = MLSS~~
NO RESTRICTION WITHIN 60" THEREFORE MLSS NEED NOT APPLY

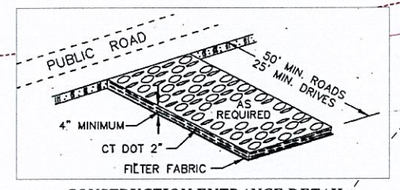
USE 1 ROW OF GST 6224 @ 18.1 FT² OF LEACHING PER LINEAR FT X 28' OF TRENCH = 506.8 FT² OF LEACHING PROVIDED (495 FT² OF LEACHING REQUIRED)

GEOMATRIX GST LEACHING SYSTEM
(HE CROSS SECTION

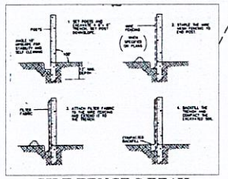
Finished Grade shall be pitched to sheet flow stormwater away from system.
Cover material depth shall be >6" and shall be uniform over system
ASTM C-33 Sand
Filter Fabric
Distribution Pipe*
CT DOT No. 6 stone
*P
H
>2"
62"

*Hle 6" (GST6206) 12" (GST6212) 18" (GST6218) 24" (GST6224) 30" (GST6230) 36" (GST6236)

*Pe 2" - 5.5"
*2" min. I.D., ASTM D-3034, SDR 35 pipe for gravity applications
6.73" min. I.D., ASTM D-2665, SCH 40 PVC pipe for pressure applications



CONSTRUCTION ENTRANCE DETAIL



SILT FENCE DETAIL

STANDARD SEPTIC NOTES:

AN AS-BUILT SHALL BE SUBMITTED (A-2 WITH TIES FOR ENGINEERED PLAN AND TIED PLAN FOR NON-ENGINEERED) TO THE HEALTH DEPARTMENT WITH DISTANCES TO FLOW LINE AT HOUSE, INLET AND OUTLET COVER OF TANK, D-BOX(S), CLEANOUTS AND ENDS OF LEACHING ROWS, WELLS, FOOTING/CURTAIN DRAINS AND BETWEEN TIE POINTS. IN ADDITION, PROVIDE THE NAME OF THE INSTALLER, DATE, HOUSE LOCATION AND STREET/DIRECTIONAL ARROW.

ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS, HAVE RISER COVERS THAT WEIGH AT LEAST 100 LBS. AND/OR INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO TANK. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.

THE HEALTH DEPARTMENT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY INSPECTIONS AND THE FOLLOWING INSPECTIONS WILL BE REQUIRED: A.) SYSTEM STAKE-BENCHMARK INSPECTION/ WELL SITE STAKE VERIFICATION B.) SEPTIC LEACHING STRIP INSPECTION. C.) SEPTIC FINAL INSPECTION (WHICH MAY ALSO REQUIRE OTHER INSPECTIONS INCLUDING, BUT NOT LIMITED TO FILL INSPECTIONS/ PERCING OF FILL, PUMP/PUMP CHAMBER, GREASE TRAP, CURTAIN DRAIN, FOOTING DRAIN DISCHARGE, COVER INSPECTIONS, BUILDING WALKTHROUGH, WATER TREATMENT WASTEWATER DISPOSAL SYSTEM LOCATION VERIFICATION, WELL CASTING AND CAP VERIFICATIONS)

THOUGH NOT REQUIRED, ALL PROPOSED WELL ARCS SHOULD BE KEPT ON THE PROPERTY THEY SERVE (TO ALLOW NEIGHBORS FULL USE OF THEIR PROPERTIES) AND ALL WELL CASTINGS SHOULD BE LOCATED AT LEAST 10' FROM DRIVING SURFACES AND/OR STRUCTURES TO PREVENT FUTURE DAMAGE AND ALLOW FOR MAINTENANCE OF THE WELLS.

IT IS STRONGLY ENCOURAGED TO KEEP THE ORIGINAL TANK COVERS ON ALL TANKS REQUIRING RISERS TO PREVENT THE ESCAPE OF SEWER GASES AND PREVENT INDIVIDUALS FROM FALLING INTO TANKS.

THE DESIGNER SHOULD TAKE INTO CONSIDERATION THE LOCATION OF POTENTIAL FUTURE WATER TREATMENT DISCHARGE SYSTEMS, RAIN GARDENS AND FOOTING/CURTAIN DRAIN DISCHARGE LOCATIONS.

"THE CONNECTICUT PUBLIC HEALTH CODE - ON-SITE SEWAGE DISPOSAL REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS" ARE PART OF THIS PLAN. ALL WORK SHALL BE SUBJECT TO THESE REGULATIONS.

REFERENCE NOTE

THIS SURVEY AND MAP HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" ADOPTED FOR USE BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THE TYPE OF SURVEY IS "ZONING LOCATION SURVEY"

THE BOUNDARY DETERMINATION CATEGORY IS "DEPENDENT RESURVEY".

THE HORIZONTAL ACCURACY CONFORMS TO "A-2" STANDARDS.

GENERAL NOTES

PRIMARY AND RESERVE SEPTIC AREAS ARE TO BE PROTECTED FROM COMPACTION AND DAMAGE BY MACHINERY AND EQUIPMENT DURING CONSTRUCTION.

ADDITIONAL TEST PITS MAY BE REQUIRED TO CONFIRM SOIL CONDITIONS IN THE AREA OF THE PRIMARY AND RESERVE LEACHING FIELDS. PITS ARE TO BE DUG PRIOR TO THE START OF CONSTRUCTION OF THE SEPTIC SYSTEM AND ARE TO BE STAKED IN THE FIELD BY ENGINEER TO ENSURE PROPER LOCATION.

DISTRIBUTION BOXES TO BE INSTALLED TO CREATE A HIGH LEVEL OVERFLOW (IF NEC.)

SEPTIC SYSTEM SHALL CONFORM TO THE CURRENT STATE OF CONNECTICUT PUBLIC HEALTH CODE

IF FIELD CONDITIONS (MOTTLING/ LEDGE/ GROUNDWATER) ARE ENCOUNTERED AT SHALLOWER DEPTH THAN THOSE SHOWN IN THE DEEP TEST HOLE RESULTS, THE ENGINEER SHALL BE CONTACTED IMMEDIATELY AND CONSTRUCTION HALTED UNTIL FURTHER DIRECTED

SDR 35 TIGHT PIPE FROM TANK TO D. BOX AND BETWEEN D. BOXES

CONTOURS TAKEN FROM ON SITE FIELD TOPOGRAPHY AND ARE TO T-2 STANDARDS

REQUIRED FILL SPECIFICATIONS

ALL LEACHING PRODUCTS WITH EFFECTIVE LEACHING CREDITS OF 7.4 SF/LF AND HIGHER SHALL NOT BE UTILIZED WHERE THE UNDERLYING NATURALLY OCCURING SOILS HAVE A MAXIMUM PERCOLATION RATE SLOWER THAN THIRTY (30) MINUTES PER INCH.

SELECT FILL MATERIAL AND SELECT BACKFILL MATERIAL PLACED WITHIN AND ADJACENT TO PROPOSED LEACHING AREAS SHALL BE COMPOSED 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:

1. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN THREE (3) INCHES.
2. UP TO 4% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE (THIS IS THE GRAVEL PORTION OF THE SAMPLE).
3. 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 SIZE	PERCENT PASSING	PERCENT PASSING
#4	100%	100%
#10	70% - 100%	70%-100%
#40	10% - 50%	10%-75%
#100	0% - 20%	0%-5%
#200	0% - 5%	0%-2.5%
	WET SIEVE TEST	DRY SIEVE TEST

THE RESPONSIBILITY FOR THE PREPARATION OF A LEACHING AREA UTILIZING SELECT MATERIAL IS THAT OF THE LICENSED INSTALLER. THE INSTALLER SHALL TAKE THE NECESSARY STEPS TO PROTECT THE UNDERLYING NATURALLY OCCURING SOILS FROM OVERCOMPACTION AND SILTATION ONCE EXPOSED.

NOTE: WATER TREATMENT DEVICES NOT TO DISCHARGE INTO SEPTIC SYSTEM

LEGEND

- IP AS NOTED
- TREE AS NOTED
- UTILITY POLE
- WELL
- PERCOLATION TEST
- DEEP TEST PIT
- SILT FENCE
- 392 PROPOSED CONTOUR

PINE TREE ROAD

WHITE SANDS ROAD

EVERSOURCE 2797

MINIMUM 1,000 GALLON SEPTIC TANK
FLOWLINE @ HOUSE = 387.25
FLOWLINE IN TANK = 386.50
FLOWLINE OUT TANK = 386.25
(ADD RISER TO GRADE)

PROPOSED GRAVEL DRIVEWAY

PROPOSED 3-BEDROOM HOUSE LOCATION TOP OF FOUNDATION = 396.0

26' OF GST6224 FLOWLINE = 386.00 - BOTTOM = 384.50

100% RESERVE SEPTIC AREA

PROPOSED UTILITIES

CLEANOUT

CLEANOUT

FOOTING DRAIN OUTLET

TP A

PT P1

PT P2

PT R

TP B

TP C

TP D

REBAR SET

REBAR SET

REBAR SET

REBAR ALT.

REBAR REC.

CL&P 2775

CL&P 2777

PROP. WELL

25' WELL RADIUS

75' WELL RADIUS

1 PIPE REC IN 30" PINE

N/F
HEATHER M. HAMILTON &.
RYAN M. MCGRATH
(NO DESIGN CONFLICT)

N/F
LISA M. SHUBAT
(NO DESIGN CONFLICT)

N/F
DAVID E. SEAMON
(NO DESIGN CONFLICT)

N/F
JAMES A. & KIMBERLY L. MEYER
(NO DESIGN CONFLICT)

MBL(S):MAP:066 - LOTS:227, 228, 229, 230
14,094 Ft² (0.324 ACRES)

PROJECT BENCHMARK - TOP OF IRON PIN
ELEVATION = 381.23 (NAVD88)

25' R.E.

25' R.E.

S83°40'52"E 160.00'

S83°05'52"W 69.15'

S83°05'52"W 99.34'

N6°54'08"W 83.5'

N6°54'08"W 40.0'

S6°54'08"E 83.5'

S6°54'08"E 40.0'

EROSION CONTROL NOTES

GENERAL REQUIREMENTS FOR EROSION CONTROL:

A SCHEDULE OF OPERATIONS TO INCLUDE STARTING AND COMPLETION DATES FOR MAJOR DEVELOPMENT PHASES, SUCH AS LAND CLEARING AND GRADING, STREET, SIDEWALK, AND STORM SEWAGE INSTALLATION, ETC.

SEEDING, SODDING, OR REVEGETATION PLANS AND SPECIFICATIONS FOR ALL UNPROTECTED OR UNVEGETATED AREAS SHALL BE IMPLEMENTED AS SOON AS POSSIBLE.

EXCAVATIONS , FILLS AND GRADING :

CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 3:1 UNLESS STABILIZED BY A RETAINING WALL OR CRIBBING, EXCEPT AS APPROVED BY THE COMMISSION UNDER SPECIAL CONDITIONS.

ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATER FROM DAMAGING THE CUT FACE OF EXCAVATION OR THE SLOPING SURFACES OF FILLS.

CUT AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTY.

FILL SHALL BE PLACED AND COMPACTED SO AS TO MINIMIZE SLIDING OR EROSION OF THE SOIL.

GRADING SHALL NOT BE DONE IN SUCH A WAY SO AS TO DIVERT WATER ONTO THE PROPERTY OF ANOTHER LANDOWNER WITHOUT THE EXPRESSED CONSENT OF THAT LANDOWNER AND THE COMMISSION.

FILLS SHALL NOT ENCROACH ON THE NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS.
DURING GRADING OPERATIONS, NECESSARY MEASURES FOR DUST CONTROL SHALL BE EXERCIZED.

GRADING EQUIPMENT WILL NOT BE ALLOWED TO CROSS LIVE STREAMS EXCEPT BY MEANS OF BRIDGES AND CULVERTS OR OTHER METHODS AS APPROVED BY THE COMMISSION.

IMPLEMENTATION PROCEDURES:

WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.

ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT.

WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME.

WHERE NECESSARY, TEMPORARY VEGETATION AND/OR MULCHING SHOULD BE USED TO PROTECT AREAS EXPOSED DURING DEVELOPMENT.

THE PERMANENT FINAL VEGETATION AND STRUCTURES SHOULD BE INSTALLED AS SOON AS PRACTICAL IN THE DEVELOPMENT.

CONSTRUCTION NOTES

NO CHANGE IN PLAN LOCATION OR ELEVATION SHALL BE MADE WITHOUT NOTIFYING THE ENGINEER AND THE PROPER TOWN AUTHORITY.

THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION TO SET LOCATION AND GRADE STAKES FOR THE SUBSURFACE SEWAGE DISPOSAL SYSTEM TO INCLUDE FILL MATERIAL, SEPTIC TANK, PRIMARY LEACH SYSTEM, SIMILAR STAKING REQUIRED FOR ALL CURTAIN AND FOUNDATION DRAINS AND INCL.

NO SOIL STRIPPING OR EXCAVATION SHALL BEGIN WITHIN THE AREA OF THE SUB SURFACE SEWAGE DISPOSAL SYSTEM WITHOUT A VALID CONSTRUCTION PERMIT.

A LICENSED SEWAGE DISPOSAL SYSTEM INSTALLER SHALL OBTAIN A CONSTRUCTION PERMIT AND ARRANGE FOR THE SITE INSPECTION PRIOR TO CONSTRUCTION. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLAN AND ALL APPLICABLE STATE AND LOCAL RULES, REGULATIONS AND CODES.

TOPSOIL TO BE STRIPPED AND STOCKPILED PRIOR TO ANY FILLING. SCARIFY AREA BEFORE FILLING. AVOID STRIPPED AREA WITH HEAVY VEHICLES OR WHEELS TO MINIMIZE COMPACTION. PLACE FILL AT EDGE OF PREPARED AREA AND SPREAD WITH BULLDOZER IN 8" LIFTS AND COMPACT TO 95% MAXIMUM DENSITY.

SANITARIAN TO INSPECT ANY FILL OVER 24" DEEP PRIOR TO CONSTRUCTION.

TRENCH BOTTOMS SHALL BE LEVEL AND SET TO FOLLOW CONTOURS OF EXISTING GRADE. TRENCH LATERALS SHALL BE LEVEL WITH PERFORATIONS DOWNWARD.

NO CONSTRUCTION BELOW ORIGINAL GRADE IN THE LEACHING SYSTEM AREA SHALL TAKE PLACE WITHIN 48 HOURS OF A RAIN FALL OR WITH STANDING PUDDLES.

ALL FOOTING DRAINS, CURTAIN DRAINS AND SUBSURFACE SEWAGE DISPOSAL SYSTEM COMPONENTS SHALL BE INSPECTED BY THE TOWN AND LOCATED "AS-BUILT" BY THE ENGINEER/LAND SURVEYOR PRIOR TO COVERING. INSPECTION SHALL BE WITHIN 2 WORKING DAYS FOLLOWING TIMELY NOTIFICATION BY THE CONTRACTOR TO PROTECT OPEN WORK FROM SEDIMATION AND EROSION.

ALL DISTURBED AREAS SHALL BE GRADED, LOAMED, AND SEEDED AS SOON AS POSSIBLE AFTER CONSTRUCTION. IF SEEDING CANNOT TAKE PLACE DURING THE GROWING SEASON, A TEMPORARY MULCH COVER SHALL BE PLACED AND MAINTAINED UNTIL PERMANENT COVER CAN BE ESTABLISHED.

A LICENSED WELL DRILLER SHALL OBTAIN A PERMIT PRIOR TO ANY DRILLING. THE WELL SHALL BE PROVIDED IN ACCORDANCE WITH THIS PLAN AND ALL APPLICABLE STATE AND LOCAL REGULATIONS AND CODES.

SATISFACTORY COMPLETION OF ALL THE ABOVE REQUIREMENTS SHALL PRECEDE THE FINAL INSPECTION AND APPROVAL OF THE SUBSURFACE SEWAGE DISPOSAL SYSTEM AND WELL.

ZONING COMPLIANCE CHART - ZONE: L

	REQUIRED	PROVIDED
MINIMUM LOT AREA	1 ACRE	0.324 ACRES*
MINIMUM LOT WIDTH	150'	159.97'
FRONT YARD SETBACK	25'	26.0'
SIDE YARD SETBACK	25'	83.5'L - 40.0'R
REAR YARD SETBACK	25'	37.1'
MAX. LOT COVERAGE	10%	6.1%
MAX. BUILDING HEIGHT	24'	(SEE ARCH. PLANS)

PRE-EXISTING NON-CONFORMING CONDITION

MAP REFERENCES:

SITE PLAN PROPERTY OF DAVID & SHEILA BURR - WHITE SANDS RD. (MOODUS EST.) - EAST HADDAM, CONN. - SCALE: 1" = 20' - 12/4/98 - BY PETER PARIZO, L.S.

PROPOSED HOUSE LOCATION LOT 4 "STRANAHAN FARMS" - STOCKING LOT ROAD - EAST HADDAM, CONNECTICUT - SCALE: 1" = 40' - 13 JULY 1989 - BY METCALF & SANBORN

SITE DEVELOPMENT PLAN OF LAND TO BE KNOWN AS "STRANAHAN FARMS" - FALLS-BASHAN ROAD & EAST HADDAM-COLCHESTER TURNPIKE - EAST HADDAM, CONNECTICUT - SCALE: 1" = 40' - 11 MAR. 1988 - REVISED THRU 9 AUG. 1988 - BY METCALF & SANBORN

"TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON."

CHARLES R. DUTCH, L.S. 15776 LICENSE NUMBER

PLOT PLAN

PREPARED FOR

DAVID BURR

MBL(S):MAP:066 - LOTS:227, 228, 229, 230
WHITE SANDS ROAD - EAST HADDAM, CONNECTICUT
SCALE 1" = 10' - AUGUST 11, 2025

0 10' 20'

DUTCH & ASSOCIATES
LAND SURVEYORS
392 SOUTH MAIN STREET, COLCHESTER, CONN.
PHONE: (860) 537-3465

JOB NO. 24-84

Traverse PC