DESIGN CRITERIA

TYPE OF ESTABLISHMENT: 4 BEDROOM RESIDENTIAL
DESIGN FLOW: 440 G.P.D.
SEPTIC TANK CAPACITY: NEW 1500 GAL. SEPTIC TANK
LEACHING CAPACITY REQUIRED: 440 GPD / 0.74 = 595 SQ FT REQUIRED
LEACHING CAPACITY PROVIDED: 20'-0" X 50'-0" LEACHBED = 600 SQ. FT.
600 SQ. FT. * 0.74 = 444 G.P.D.

TEST PIT DATA

SOIL EVALUATOR: STEPHEN E. POOLE
WITNESSED BY: ALYSSA RUSIECKI
DATE: 5/18/2011
APPLICANT: 123 KIDS LLC

TEST PIT # 1
0"-5" A SL 10YR 2/2
5"-28" B SL 7.5YR 4/6
28"-96" C1 S 10YR 5/6
96"-112" C2 S 2.5Y 6/3
REDOX @ 96"
GROUND WATER ELEV (OBSERVED) N/A
MOTTLING ELEV (OBSERVED) 96"
REFUSAL ELEV N/A

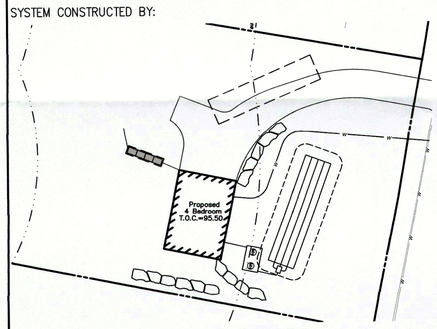
TEST PIT # 2
GROUND WATER ELEV (OBSERVED) N/A
MOTTLING ELEV (OBSERVED) 42"
REFUSAL ELEV N/A

TEST PIT # 3
0"-6" A SL 10YR 2/2
6"-30" B SL 10YR 4/6
30"-76" C1 S 10YR 5/6
76"-90" C2 S 2.5Y 5/4
90"-116" C3 S 7.5YR 4/6
REDOX @ 90"
GROUND WATER ELEV (OBSERVED) N/A
MOTTLING ELEV (OBSERVED) 90"
REFUSAL ELEV N/A

TEST PIT # 4
GROUND WATER ELEV (OBSERVED) N/A
MOTTLING ELEV (OBSERVED) 42"
REFUSAL ELEV N/A

AS BUILT INFORMATION

SYSTEM INSPECTION DATE:
SYSTEM CONSTRUCTED BY:



AS-BUILT TIES

POINTS	DIST.
A–C	
B–C	
A–D	
B–D	
A–E	
B–E	
A–F	
B–F	
A–G	
B–G	
A–H	
B–H	

AS BUILT NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT A LETTER CERTIFYING THAT THE SEWER GRAVEL INSTALLED MEETS TITLE V SIEVE ANALYSIS REQUIREMENTS TO DC ENGINEERING PRIOR TO THE SUBMISSION OF THE AS-BUILT. DC ENGINEERING IS NOT RESPONSIBLE FOR THE SIEVE ANALYSIS.

GENERAL NOTES

1. ALL CHANGES TO THIS PLAN MUST BE APPROVED BY THE TOWN OF STURBRIDGE BOARD OF HEALTH
2. ALL SITE WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH TITLE 5
3. ANY CONDITIONS DURING CONSTRUCTION THAT DIFFER FROM THOSE ENCOUNTERED DURING TESTING SHALL BE REPORTED TO DC ENGINEERING AND THE LOCAL BOARD OF HEALTH IMMEDIATELY.
4. REMOVE ALL TOPSOIL & SUBSOIL FOR A DISTANCE OF 5 FEET AROUND SYSTEM

4a. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF SELECT ON-SITE OR IMPORTED SOIL MATERIAL. THE FILL SHALL BE COMPRISED OF CLEAN GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 2 INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. FOR FURTHER INFORMATION SEE 310CMR 15:255(3).

5. OFFSETS ARE NOT TO BE USED FOR THE REPRODUCTION OF PROPERTY LINES.
6. ALL ELEVATIONS REFER TO AN ASSUMED DATUM.
7. NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A GARBAGE DISPOSAL.(NOT ALLOWED)

7a. NO ADDITIONAL CAPACITY HAS BEEN PROVIDED FOR A WATER SOFTNER.(NOT ALLOWED)

8. **THE PROPOSED SITE IS NOT SUBJECT TO THE WETLANDS PROTECTION ACT.** (THE LOT IS SUBJECT TO THE LOCAL WETLAND BYLAW ONLY)
9. THE PROPOSED PROJECT DOES NOT FALL WITHIN A FLOOD HAZARD ZONE.
10. THE SEPTIC TANK SHOULD BE INSPECTED AND PUMPED EVERY 2 YEARS.
11. ALL EXISTING OR PROPOSED WELLS AND SEPTIC SYSTEMS WITHIN 150 FEET OF THE PROPOSED CONSTRUCTION ARE SHOWN OR NOTED TO THE BEST OF OUR KNOWLEDGE.
12. ALL WETLANDS, BROOKS, BODIES OF WATER AND FLOOD HAZARD ZONES WITHIN 200 FEET OF THE PROPOSED CONSTRUCTION ARE SHOWN OR NOTED TO THE BEST OF OUR KNOWLEDGE.
13. INSPECTIONS REQUIRED FOR ASBUILT CERTIFICATION * SEE ASBUILT NOTE *
    A. BOTTOM INSPECTION PRIOR TO THE INSTALLATION OF SEWER GRAVEL.
    B. ALL COMPONENTS OF SEPTIC SYSTEM MUST BE COMPLETE AND VISIBLE PRIOR TO REQUESTING A FINAL INSPECTION
14. DIG SAFE TO NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.
15. INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH AREA.
16. HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK AND D-BOX LEACHING AREA TO BE WATERTIGHT 4" PVC ASTM D 1785 LAID ON FIRM BASE.

PERCOLATION TEST DATA

SOIL EVALUATOR: STEPHEN E. POOLE
WITNESSED BY: ALYSSA RUSIECKI
DATE: 5/18/2011

	1	2
DEPTH:	68"	62"
FIELD RATE:	< 2 MPI	< 2 MPI
DESIGN RATE:	< 2 MPI	< 2 MPI
SOIL CLASSIFICATION:	1	1
L.T.A.R.	0.74	0.74

ZONING REQUIREMENTS

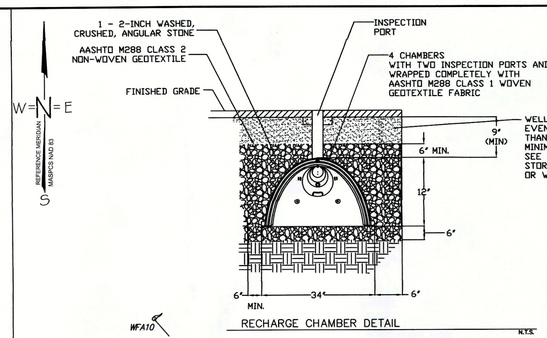
ZONE – SUBURBAN RESIDENTIAL
AREA – 3/4 ACRE.
FRONTAGE – 125'
FRONT – 30 FT.
SIDE – 15 FT.
REAR – 15 FT.

SYMBOL KEY

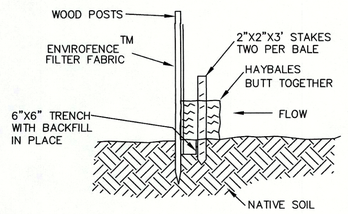
STONE WALL
BOUND
IRON PIPE
DRILL HOLE
UTILITY POLE
WELL
TEST PIT
PERC TEST
BENCH MARK

DIG-SAFE
PHONE # 877-344-7233

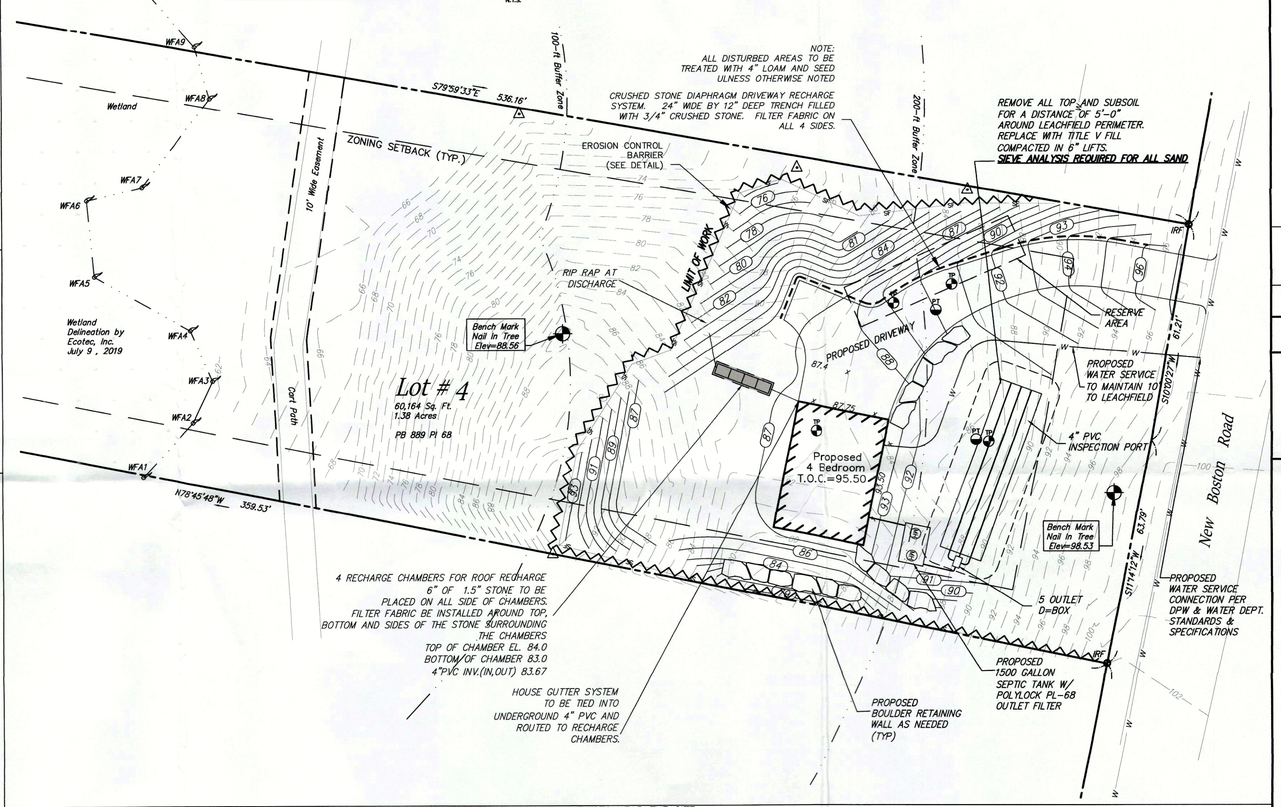
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



RECHARGE CHAMBER DETAIL
N.T.S.

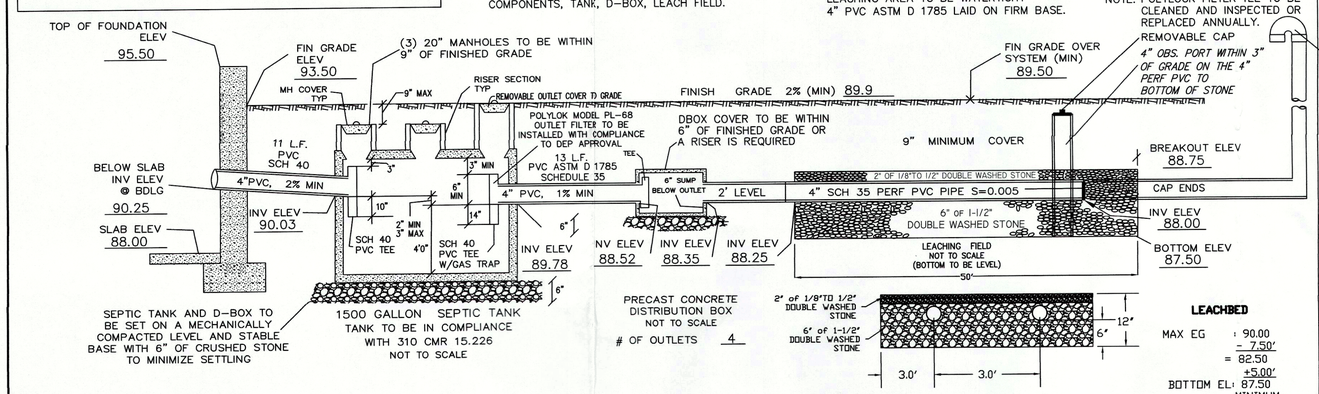


EROSION CONTROL BARRIER
NOT TO SCALE



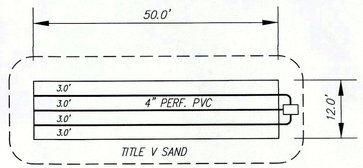
DISPOSAL SYSTEM CROSS SECTION

NOTE: DIG SAFE TO BE NOTIFIED PRIOR TO CONSTRUCTION AT 1-888-DIGSAFE.
NOTE: INSTALL MAGNETIC TAPE OVER ALL SYSTEM COMPONENTS, TANK, D-BOX, LEACH FIELD.
NOTE: HYDRAULIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS AT THE SEPTIC TANK AND D-BOX
NOTE: ALL PIPE FROM FOUNDATION TO LEACHING AREA TO BE WATERTIGHT 4" PVC ASTM D 1785 LAID ON FIRM BASE.
NOTE: ANY RISERS TO GRADE MUST BE SECURED AGAINST UNAUTHORIZED ACCESS
NOTE: POLYLOCK FILTER TEE TO BE CLEANED AND INSPECTED OR REPLACED ANNUALLY.



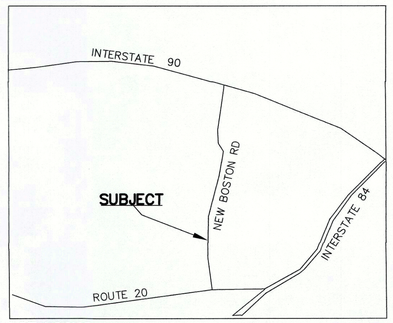
LEACHBED
MAX EG : 90.00
- 7.50'
= 82.50
+5.00'
BOTTOM EL: 87.50 MINIMUM

1. STORMWATER DRAINAGE IS SHOWN WHERE ANY EXISTS NEAR THE SITE
2. ANY WETLANDS, WELLS (PUBLIC OR PRIVATE), WATER SUPPLIES, AND SEPTIC SYSTSMS WITHIN 200' OF THE DISTURBED AREA ARE SHOWN ON THE PLAN.
3. NO EASEMENTS ARE LOCATED ON THE PROPERTY
4. AREA IS NOT TRIBUTARY TO A DRINKING WATER SUPPLY
5. NO OVERHEAD OR UNDERGROUND ELECTRIC LINES ARE LOCATED ON THE PROPERTY



REMOVE ALL TOP AND SUBSOIL FOR A DISTANCE 5' AROUND LEACHFIELD AND REPLACE W/ TITLE V FILL COMPACTED IN 6" LIFTS.

LEACHFIELD DETAIL
NOT TO SCALE



LOT LOCUS
SCALE: N.T.S

JASON D. DUBOIS, P.E.
PROFESSIONAL ENGINEER
MA LIC. NO. 47,334

JEREMY S. CROTEAU, P.L.S.
PROFESSIONAL LAND SURVEYOR
MA LIC. NO. 49722

DC ENGINEERING & SURVEYING, INC.
508-769-6669
508-341-2127

NO.	DATE	REVISION

NORTH

CLIENT: 123 KIDS LLC
71 HILLSVILLE ROAD
NORTH BROOKFIELD, MA 01566

SEPTIC SYSTEM PLAN
SITE ADDRESS:
59 NEW BOSTON ROAD
STURBRIDGE, MA 01566

DRAWN BY: JDD	
CK'D BY JDD	REV #: 0
DATE: 7-29-19	SCALE: 1'=20'
PROJECT #: 19-167	DWG. NO.: S-1