DEEP OBSERVATION HOLE 9A LOG
ORIGINAL GROUND ELEVATION = 91.9

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0" - 12"	A	SANDY LOAM	10 YR	-	-
12" - 36"	B	MEDIUM SAND	10 YR	-	-
36" - 48"	C1	MEDIUM SAND	2.5 Y 5/4	-	-
48" - 100"	C2	SANDY LOAM	2.5 Y 4/3	-	STRATIFIED SANDS AND GRAVEL

OBSERVED GROUNDWATER - 96" (EL. 83.9) WEEPING FROM PIT FACE - 96" (EL. 83.9)
ESTIMATED HIGH GROUNDWATER - 47" = EL. 88.00
PERCOLATION RATE AT HOLE 9A - 30 MPI @ DEPTH OF 60"

DEEP OBSERVATION HOLE 9B LOG
ORIGINAL GROUND ELEVATION = 89.8

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0" - 12"	A	SANDY LOAM	10 YR	-	-
12" - 36"	B	MEDIUM SAND	10 YR	-	-
36" - 61"	C1	MEDIUM SAND	2.5 Y 5/4	-	-
61" - 100"	C2	SANDY LOAM	2.5 Y 4/3	-	STRATIFIED SANDS AND GRAVEL

OBSERVED GROUNDWATER - NONE TO 100" (EL. 81.47) WEEPING FROM PIT FACE - NONE @ 100" (EL. 81.47)
ESTIMATED HIGH GROUNDWATER - 82" = EL. 83.00
PERCOLATION RATE AT HOLE 9A - <2 MPI @ DEPTH OF 68"
TEST HOLES BY MILLER ENGINEERING JAN. 24, 2007
TESTING WITNESSED BY MR. CHENEVERT, SEEKONK BOARD OF HEALTH

DEEP OBSERVATION HOLE CW-1 LOG
ORIGINAL GROUND ELEVATION = 89.72

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0" - 16"	Ap	SANDY LOAM	10 YR 4/3	-	MASSIVE, FRIABLE
16" - 32"	Bw	SANDY LOAM	10 YR 4/6	-	MASSIVE, FRIABLE
32" - 58"	C1	MED.-CRS. L. S.	2.5 Y 4/4	51" DIST., FEW	MASSIVE, FRIABLE
58" - 132"	Cd2	MED.-CRS. S. L.	2.5 Y 4/3		MASSIVE, FRIABLE

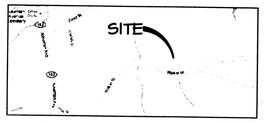
OBSERVED GROUNDWATER - NONE (EL. 78.72) WEEPING FROM PIT FACE - NONE (EL. 78.72)
ESTIMATED HIGH GROUNDWATER - 51" = (ELEV. 85.47)
PERCOLATION RATE AT HOLE CW-1 - 4 MPI

DEEP OBSERVATION HOLE CW-2 LOG
ORIGINAL GROUND ELEVATION = 91.21

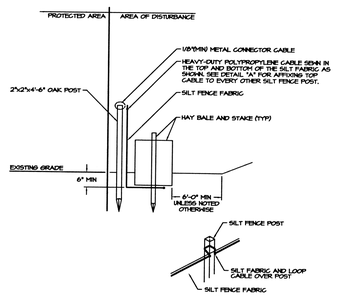
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
0" - 14"	Ap	SANDY LOAM	10 YR 4/3	-	MASSIVE, FRIABLE
14" - 24"	Bw	SANDY LOAM	10 YR 4/6	-	MASSIVE, FRIABLE
24" - 56"	C1	MED.-CRS. L. S.	2.5 Y 4/4	60" DIST., FEW	MASSIVE, FRIABLE
56" - 140"	Cd2	MED.-CRS. S. L.	2.5 Y 4/3		MASSIVE, FRIABLE

OBSERVED GROUNDWATER - NONE (EL. 79.54) WEEPING FROM PIT FACE - NONE (EL. 79.54)
ESTIMATED HIGH GROUNDWATER - 60" = ELEV. 86.21

TESTING DATE: DECEMBER 6, 2010
TEST PREFORMED BY: ALLAN L. SHEAR, SE 2212, CAPUTO AND WICK LTD.
TESTING WITNESSED BY: BETH HALLAL, SEEKONK BOARD OF HEALTH

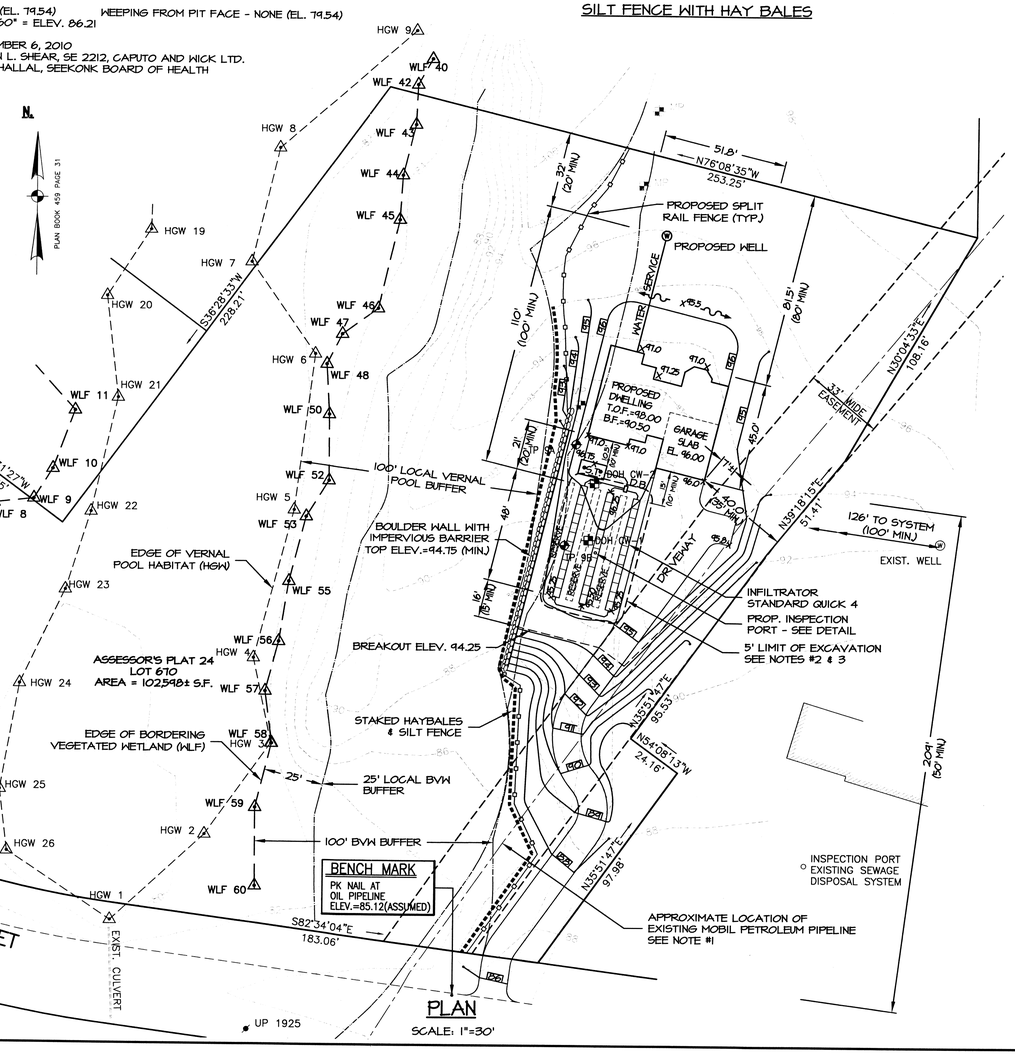


LOCATION MAP
NOT TO SCALE

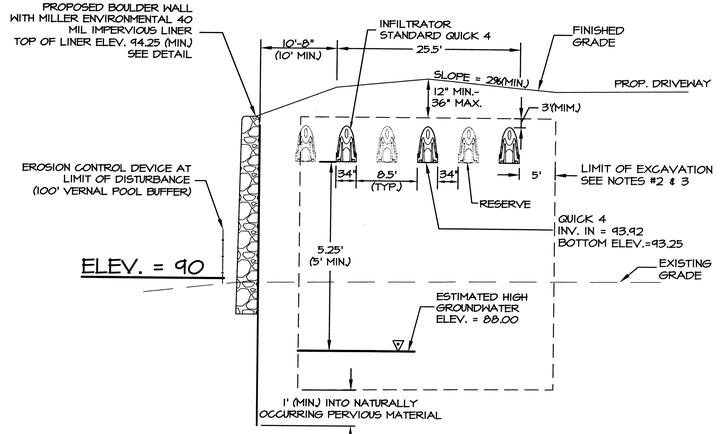


NOTES:
1. HAY BALES ARE TO BE PLACED WITHIN A 6" MIN. TRENCH AND INSTALLED "TIGHT" AGAINST THE SILT FENCE.
2. THROUGHLY COMPACT EXCAVATED SOILS BACK INTO THE TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES.
3. SILT FENCE FABRIC SHALL NOT BE SLIT AND THE HAY BALE POSTS ARE TO BE DRIVEN THROUGH THE SILT FENCE FABRIC.
4. 2"x2"x4'-6" OAK STAKE FOR THE SILT FENCE SHALL BE LOCATED ON 8'-0"MAX) CENTERS IN A WETLAND AREA AND 4'-0"MAX) CENTERS IN A WETLAND REVINE, GULLY AND/OR A DROPOFF AREA AS SHOWN ON THE PLANS.

SILT FENCE WITH HAY BALES



PLAN
SCALE: 1"=30'



SOIL ABSORPTION SYSTEM SECTION

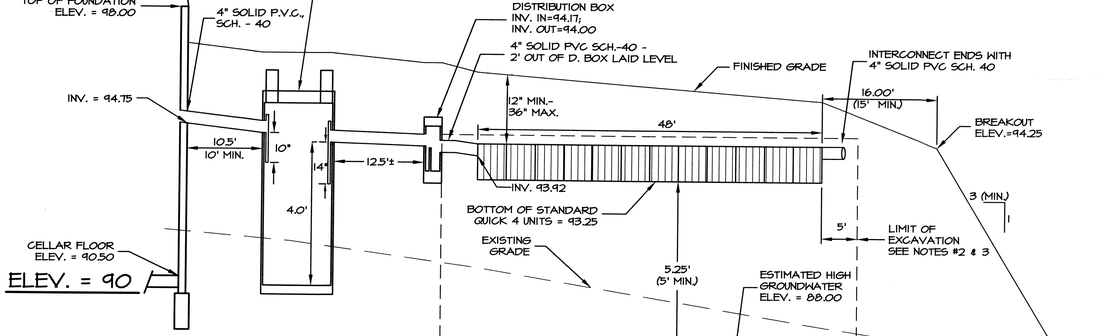
SCALES {HORIZONTAL 1"=10' / VERTICAL 1"=2'}

DESIGN DATA

DAILY SEWAGE FLOW
- 3 BEDROOMS
- DAILY FLOW = 110 GAL/BEDROOM =330 GALLONS PER DAY

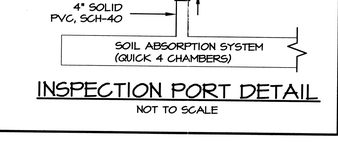
SEPTIC TANK REQUIREMENTS
- VOLUME = 2 x DAILY FLOW = 660 GALLONS
- USE 1,500 GALLON SEPTIC TANK - H 20-44 LOADING

LEACHING AREA REQUIREMENTS
- PERCOLATION RATE = 30 MINUTES PER INCH
- DESIGN FOR 30 MINUTES PER INCH - SOIL TEXTURE GLASS - II
- EFFLUENT LOADING RATE = 0.33 GALLONS PER SQUARE FOOT
- INFILTRATOR QUICK 4 - 6.96 S.F./L.F. X 4.0 L.F./CHAMBER = 27.84 S.F./CHAMBER
- TOTAL LEACHING AREA = 36 QUICK 4 CHAMBERS X 27.84 S.F./CHAMBER = 1002 S.F.
- TOTAL LEACHING CAPACITY = 1002 S. F. x 0.33 GAL/DAY/S.F. = 331 GPD > 330 GPD



LEACHING CHAMBER PROFILE

SCALES {HORIZONTAL 1"=10' / VERTICAL 1"=2'}



INSPECTION PORT DETAIL
NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL CONTACT MOBIL PIPELINE COMPANY PRIOR TO CONSTRUCTION. LOCATION OF PETROLEUM PIPELINE ON THIS PLAN IS FROM BEST AVAILABLE EXISTING INFORMATION, BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
2. ALL WORK SHALL CONFORM TO THE 310 CMR 15.00 STATE ENVIRONMENTAL CODE - TITLE 5 AND THE RULES AND REGULATIONS OF THE SEEKONK BOARD OF HEALTH
3. STRIP ALL TOPSOIL, SUBSOIL AND UNSUITABLE MATERIAL, TREE ROOTS AND STUMPS AND ANY OTHER IMPERVIOUS OR SPECIFIED SOIL IN THE AREA OF THE SYSTEM AND 5 FEET HORIZONTALLY BEYOND THE EDGE OF THE SYSTEM STONE IN ALL DIRECTIONS, WHERE POSSIBLE. STRIP MATERIAL VERTICALLY 3" MINIMUM INTO THE NATURALLY OCCURING PERVIOUS MATERIAL. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 CMR 15.255.
4. THE CONTRACTOR IS TO REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION. VERTICAL LIMITS MAY BE VARIABLE.
5. ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
6. PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK, AND DISTRIBUTION BOX.
7. TEST PITS 9A AND 9B FOR THIS PROJECT WERE PERFORMED BY MILLER ENGINEERING AND WITNESSED BY THE SEEKONK BOARD OF HEALTH AGENT, MR. CHENEVERT ON 1/24/2007. ADDITIONAL SOIL TESTING WAS PERFORMED BY CAPUTO AND WICK LTD. AND WITNESSED BY THE SEEKONK BOARD OF HEALTH AGENT, BETH HALLAL. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. AND THE TOWN OF SEEKONK HEALTH AGENT BEFORE PROCEEDING WITH CONSTRUCTION. IF IN DOUBT, ASK.
8. GARBAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
9. INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
10. SEPTIC TANK AND DISTRIBUTION BOX SHALL BE DESIGNED FOR H5-20-44 LOADING.
11. IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED THICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
12. BREAKOUT ELEVATION = 94.25. NO FINISHED GRADE BELOW 94.25 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA, EXCEPT WHERE IMPERVIOUS BARRIER IS PROVIDED.
13. CONTRACTOR SHALL CONTACT "DIG-SAFE" PRIOR TO CONSTRUCTION. LOCATION OF UTILITIES ON THIS PLAN ARE FROM BEST AVAILABLE EXISTING INFORMATION, BUT ARE ONLY TO BE CONSIDERED APPROXIMATE.
14. ALL EXISTING AND PROPOSED WATER WELLS WITHIN 200' OF PROPOSED SEWAGE DISPOSAL SYSTEM ARE SHOWN.
15. MATERIAL AND EQUIPMENT FROM ALTERNATE MANUFACTURERS MAY BE USED IF EQUAL. APPROVAL FOR ALTERNATE MATERIAL AND/OR EQUIPMENT REQUIRED FROM ENGINEER AND THE BOARD OF HEALTH PRIOR TO CONSTRUCTION. FULL SPECIFICATIONS FOR ALTERNATE EQUIPMENT MUST BE PROVIDED BY CONTRACTOR.
16. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR MONITORING, INSPECTING OR SUPERVISING THE ACTUAL CONSTRUCTION WORK. AFTER EXCAVATING AND PRIOR TO INSTALLING ANY IMPORTED MATERIAL, CONTACT THE BOARD OF HEALTH AGENT FOR A BOTTOM OF EXCAVATION INSPECTION. AFTER SYSTEM COMPONENTS ARE IN PLACE AND PRIOR TO BACKFILLING, CONTACT THE DESIGNER TO VERIFY THE LOCATION AND ELEVATION OF SYSTEM COMPONENTS AND PREPARE A RECORD DRAWING AS REQUIRED BY THE BOARD OF HEALTH.
17. THE DESIGNER EXPRESSLY DISCLAIMS ANY RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE OF THE SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO CONSTRUCT THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND LOCAL BOARD OF HEALTH REGULATIONS AND THE RESPONSIBILITY OF THE OWNER FOR PROPERLY MAINTAINING THE SYSTEM IN ACCORDANCE WITH 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
18. REFER TO 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND OPERATION OF THE SYSTEM. THE INSTALLER AND OWNER SHOULD REVIEW AND APPLY 310 CMR 15.00 AND THE LOCAL BOARD OF HEALTH REGULATIONS.
19. SYSTEM TO BE CONSTRUCTED BY A INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
20. FILL MEETING THE REQUIREMENTS OF 310 CMR 15.255(3) MUST BE PLACED ON SCARIFIED, RELATIVELY DRY NATURAL SOIL. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED AND ALL WORK SHALL BE PERFORMED UNDER DRY CONDITIONS PER 310 CMR 15.255(6).
21. THE CELLAR FLOOR ELEVATION SHOWN HAS BEEN SUGGESTED AS A MINIMUM BASED ON OBSERVED GROUNDWATER CONDITIONS AND SOIL TESTING. SINCE THE GROUNDWATER LEVELS FLUCTUATE ANNUALLY, NO WARRANTY OF DRY CELLAR IS EXPRESSED OR IMPLIED.
22. INSTALL MAGNETIC TAPE OVER ALL PIPE AND SYSTEM COMPONENTS.
23. A MOBIL PIPELINE INSPECTOR MUST BE NOTIFIED AT THE TIME THAT ANY WORK IS DONE WITHIN THE MOBIL PIPELINE'S EASEMENT TO DETERMINE IF AN INSPECTOR MUST BE PRESENT FOR THE INTENDED WORK. THE "CALL BEFORE YOU DIG, INC.", AT 1-800-922-4455, MUST BE CONTACTED AT LEAST THREE DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY NEAR THE PIPELINE. MOBIL PIPELINE LOCAL REPRESENTATIVE IS BOB DIEBEL AT 508-476-3054
24. THE SPLIT RAIL FENCE SERVES AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES AND SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION.

LEGEND

—100—	EXISTING CONTOUR
—100—	PROPOSED CONTOUR
MA. STD.	MASSACHUSETTS STANDARD
INV.	INVERT OF PIPE
P. V. C.	POLYVINYL CHLORIDE PIPE
S. D. R.	STANDARD DIMENSION RATIO
R. C. P.	REINFORCED CONCRETE PIPE
CONC.	CONCRETE (BIT. OR P. C.)
BIT.	BITUMINOUS
P. C.	PORTLAND CEMENT
TYP.	TYPICAL
+ 100.00	FINISHED SPOT GRADE
X 100.00	EXISTING SPOT GRADE
T. C.	TOP OF CURB
B. C.	BOTTOM OF CURB
R	PROPERTY LINE
-x-CLF-x-	CHAIN LINK FENCE
ST	SEPTIC TANK
DB	DISTRIBUTION BOX
DOH	DEEP OBSERVATION HOLE
MP	MONITORING PIPE

LOT INFORMATION
ASSESSORS PLAT 24, LOT 670
OWNER:
DIANE L. GARCEAU
13 KING PHILIP ROAD
NORTON, MA 02766
AREA = 102,598± S.F.

RECEIVED JAN 26 2011 SEEKONK CONSERVATION

69-621

COMMONWEALTH OF MASSACHUSETTS ALLAN L. SHEAR No. 25258 REGISTERED PROFESSIONAL ENGINEER

SEWAGE DISPOSAL SYSTEM
PREPARED FOR:
DIANE L. GARCEAU
PLAT 24 - LOT 670
240 WALKER STREET
SEEKONK, MASSACHUSETTS

CAPUTO AND WICK LTD.
1150 PAWTUCKET AVE.
RUMFORD, R.I. 02916
401-434-8880

DATE: DECEMBER 16, 2010
SHEET: 1