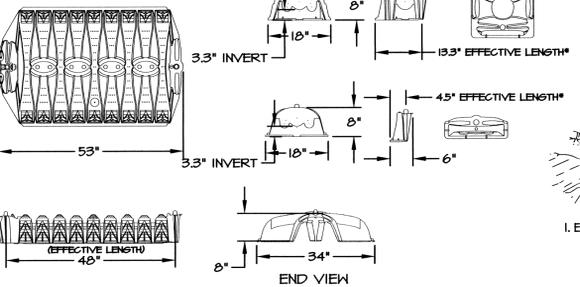
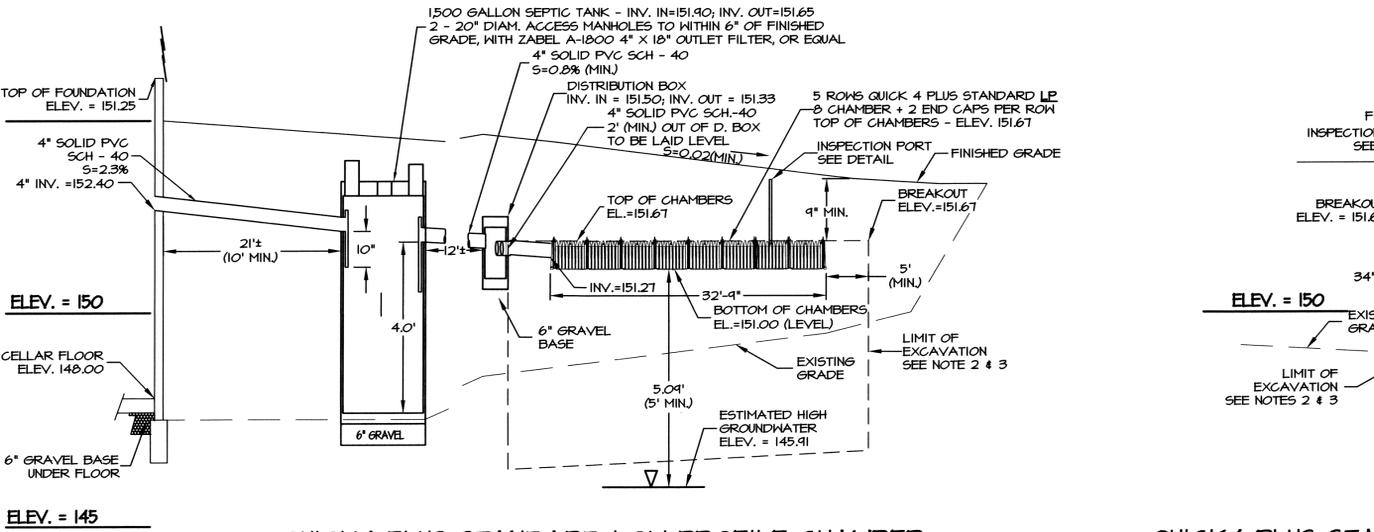


**SITE PLAN**  
SCALE 1"=30'



**INFILTRATOR SYSTEMS INC. - QUICK4 PLUS  
STANDARD LOW PROFILE CHAMBER**  
(NOT TO SCALE)

DESCRIPTION	ELEVATION
INVERT AT FOUNDATION	152.40
INVERT IN - SEPTIC TANK	151.90
INVERT OUT - SEPTIC TANK	151.65
INVERT IN - DIST. BOX	151.50
INVERT OUT - DIST. BOX	151.33
INVERT BEGINNING CHAMBERS	151.27
ELEV. TOP OF CHAMBERS (BREAKOUT)	151.67
ELEV. BOTTOM OF CHAMBERS	151.00
EST. SEASONAL HIGH GW	145.91



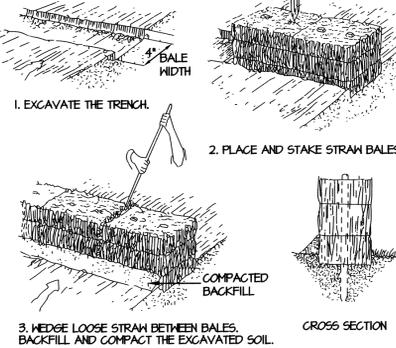
**QUICK4 PLUS STANDARD LOW PROFILE CHAMBER  
FIELD PROFILE DETAIL**  
SCALE (HORIZONTAL 1"=10'  
VERTICAL 1"=2')

**NOTES:**

- 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.
- 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 HORIZONTALLY VERTICALLY 3" MINIMUM INTO THE NATURALLY OCCURRING PERVIOUS MATERIAL. REPLACE WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 CMR 15.255(3). ACTUAL FILL MATERIAL IS SUBJECT TO APPROVAL BY THE DESIGN ENGINEER AND/OR SEEKONK HEALTH AGENT. THE DESIGN ENGINEER AND/OR THE SEEKONK HEALTH AGENT MAY ALSO REQUIRE A SIEVE ANALYSIS OF THE FILL MATERIAL.
- THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL BELOW THE PROPOSED SOIL ABSORPTION SYSTEM PRIOR TO INSTALLATION. SEE DEEP OBSERVATION HOLES SOIL DATA FOR FURTHER INFORMATION.
- UNUSABLE MATERIAL USED TO BACKFILL THE TEST HOLES SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL MEETING THE LATEST SPECIFICATIONS OF 310 CMR 15.255(3).
- ALL PIPE TO BE 4" P. V. C. SCHEDULE 40 UNLESS OTHERWISE NOTED.
- PLACE 6" MINIMUM COMPACTED CRUSHED STONE UNDER SEPTIC TANK AND DISTRIBUTION BOX.
- SOIL TESTING FOR THIS PROJECTS WAS PERFORMED BY DEAN MONSEES AND WITNESSED BY THE SEEKONK BOARD OF HEALTH AGENT, HAROLD CHENEVERT, JR. ADDITIONAL TESTING WAS PERFORMED BY CAPUTO AND WICK, LTD. AND WITNESSED BY BETH HALLAL, SEEKONK BOARD OF HEALTH AGENT. IF CONDITIONS ENCOUNTERED DURING CONSTRUCTION VARY SUBSTANTIALLY FROM THOSE SHOWN ON THIS PLAN, NOTIFY CAPUTO AND WICK, LTD. BEFORE PROCEEDING WITH CONSTRUCTION. **IF IN DOUBT, ASK.**
- GARAGE GRINDER IS NOT ALLOWED WITH THIS DESIGN.
- INLET AND OUTLET TEES FOR SEPTIC TANK ARE TO BE LOCATED DIRECTLY BELOW ACCESS COVERS.
- SEPTIC TANK AND DISTRIBUTION BOX SHALL BE DESIGNED FOR HS-10, AND SHALL BE PROTECTED FROM VEHICULAR TRAFFIC BOTH DURING AND AFTER INSTALLATION.
- IT IS RECOMMENDED THAT THE SEPTIC TANK BE INSPECTED TWICE A YEAR, AND BE CLEANED WHEN THE SOLIDS EQUAL ONE THIRD THE LIQUID DEPTH.
- BREAKOUT ELEVATION = 151.67. NO FINISHED GRADE BELOW 151.67 FOR 15 FEET (MINIMUM) FROM THE EDGE OF THE LEACHING AREA.
- 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.
- EXISTING AND PROPOSED WATER WELLS FOUND WITHIN 200' OF PROPOSED SEWAGE DISPOSAL SYSTEM ARE SHOWN. EXISTING AND PROPOSED SEWAGE DISPOSAL SYSTEMS FOUND WITHIN 200' OF PROPOSED WATER WELL ARE SHOWN.
- 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.
- 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.
- 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.
- 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 SYSTEM TO BE CONSTRUCTED BY A INSTALLER LICENSED BY THE SEEKONK BOARD OF HEALTH.
- FILL MEETINGS THE REQUIREMENTS OF 310 CMR 15.255(9) 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).
- THE CELLAR FLOOR ELEVATION SHOWN HAS BEEN SUGGESTED AS A MINIMUM BASED ON OBSERVED GROUNDWATER CONDITIONS. SINCE THE GROUNDWATER LEVELS FLUCTUATE ANNUALLY, NO WARRANTY OF A DRY CELLAR IS EXPRESSED OR IMPLIED.
- INSTALL MAGNETIC TAPE OVER ALL PIPE AND SYSTEM COMPONENTS.
- PLAN EXISTING GRADES MAY VARY FROM ORIGINAL GRADES DUE TO SUBDIVISION CONSTRUCTION ACTIVITY.
- THE INTERIM WELLDHEAD PROTECTION AREA (IWPA) RADIUS SHOWN ON THE SITE PLAN IS CENTERED AT THE LOCATION OF THE PUBLIC WELL FOR THE SEEKONK SWIMMING AND TENNIS CLUB. THE RADIUS WAS OBTAINED FROM MR. DAN DISALVIO OF THE MASS. DEP BUREAU OF RESOURCE PROTECTION, DRINKING WATER PROGRAM. THE RADIUS FOR THE IWPA IS 633 FT. FROM WELL. THE APPROVED PUMPING RATE FOR THE WELL IS 120 GALLONS PER DAY, OR 120 GALLONS PER MINUTE. ACCORDING TO MR. DISALVIO AND THE MA. DEP 2012 DRINKING WATER QUALITY REPORT, THE WELL SERVING THE SEEKONK SWIMMING AND TENNIS CLUB IS CLASSIFIED AS A TRANSIENT NON-COMMUNITY (TNC) PUBLIC WELL. PORTIONS OF THIS LOT FALL WITHIN THE IWPA OF THE SEEKONK SWIMMING AND TENNIS CLUB. THE NITROGEN LOADING RATE IS LESS THAN THE 440 GALLONS PER DAY PER ACRE, THE MAXIMUM LIMIT FOR SYSTEMS WITHIN A NITROGEN SENSITIVE AREA.

**EROSION & SEDIMENTATION CONTROL NOTES:**

- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
- ACCESSIBLE RESERVES OF HAY BALES AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
- HAY BALES SHOULD BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
- NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
- ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADINGS.
- APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFFSITE FROM CONSTRUCTION EQUIPMENT.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE ENGINEER AND THE SEEKONK CONSERVATION COMMISSION.
- THE SPLIT RAIL FENCE SERVES AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES AND SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION.
- NO STRUCTURES ARE TO BE WITHIN 50' OF THE WETLAND.



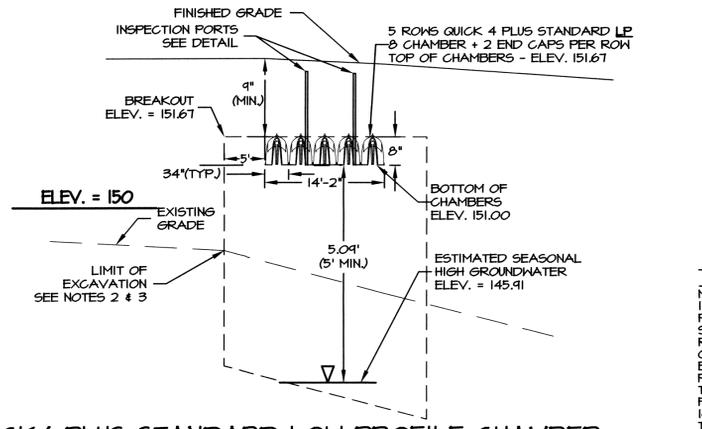
**HAY BALE DETAIL**

**DESIGN DATA**

- DAILY SEWAGE FLOW  
 • 4 BEDROOMS  
 • DAILY FLOW = 110 GAL./BEDROOM = 440 GALLONS PER DAY  
 SEPTIC TANK REQUIREMENTS  
 • VOLUME > DAILY FLOW = 880 GALLONS  
 • USE 1500 GALLON SEPTIC TANK  
 LEACHING AREA REQUIREMENTS  
 • PERCOLATION RATE = 3 MPI (DOH 00-18B) - SOIL TEXTURE CLASS II  
 • DESIGN EFFLUENT LOADING RATE (5 MPI, CLASS II) = 0.60 GALL./SF  
 • USE INFILTRATOR QUICK 4 PLUS STANDARD LP (8.3 INCH)  
 • IN FIELD CONFIGURATION - EFFECTIVE LEACHING AREA = 4.73 SF/LF  
 • PROVIDE 5 ROWS WITH 8 CHAMBERS PER ROW - 40 UNITS  
 • TOTAL LEACHING AREA  
 = 40 CHAMBERS X 4 LF/UNIT + 10 END CAPS X 315 LF/CAP = 163.75 LF  
 TOTAL LEACHING CAPACITY = 163.75 LF X 4.73 SF/LF = 774 SF.  
 • 774 SF. X 0.60 GAL./SF = 464 GAL./DAY > 440 GPD

**CONVENTIONAL SAS**

- REQUIRED LEACHING AREA - 440 GPD/0.60 GPD/SF = 733 SF
- LEACHING FIELD - 24' X 31' = 744 SF > 733 SF



**QUICK4 PLUS STANDARD LOW PROFILE CHAMBER  
FIELD SECTION DETAIL**  
SCALE (HORIZONTAL 1"=10'  
VERTICAL 1"=2')

**LOT 4 - DEEP OBSERVATION HOLE 00-18A**  
ORIGINAL GROUND ELEVATION - 142.83

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
+3" - 0	O						
0 - 4"	A	SANDY LOAM	10 YR 2/2				
4" - 16"	B	LOAMY SAND	10 YR 5/8				
16" - 28"	C1	LOAMY SAND	2.5 Y 6/3	20" COMM. 10YR 6/8			
28" - 68"	Cd2	SILT LOAM	2.5 Y 5/4				BASIL (SIC)
68" - 120"	C3	LOAMY SAND	2.5 Y 5/3				20% GRAVEL, SOME COBBLES

OBSERVED STANDING GROUNDWATER - 115" (ELEV. 142.00) WEeping GROUNDWATER - 110" (ELEV. 142.00) GROUNDWATER READIN 3/23/01 - 10"  
 ESTIMATED SEASONAL HIGH GW - 10" (ELEV. 142.00) PERC. @ 88" = <2 MPI REMOVE TO C3 HORIZON DESIGN FOR CLASS II SOIL  
 WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH TESTING PERFORMED BY DEAN MONSEES ON SEPTEMBER 6, 2000

**LOT 4 - DEEP OBSERVATION HOLE 00-18B**  
ORIGINAL GROUND ELEVATION - 143.83

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
+3" - 0	O						
0 - 4"	A	SANDY LOAM	10 YR 3/4				
4" - 25"	B	LOAMY SAND	10 YR 5/8				
25" - 39"	C1	LOAMY SAND	2.5 Y 6/3	24" COMM. 10YR 6/8			
39" - 55"	Cd2	SILT LOAM	2.5 Y 5/4				BASIL (SIC)
55" - 120"	C3	LOAMY SAND	2.5 Y 5/3				20% GRAVEL, SOME COBBLES

OBSERVED STANDING GROUNDWATER - 109" (ELEV. 143.00) WEeping GROUNDWATER - 104" (ELEV. 143.00) GROUNDWATER READIN 3/23/01 - 10"  
 ESTIMATED SEASONAL HIGH GW - 10" (ELEV. 143.00) PERC. @ 75" = 3 MPI REMOVE TO C3 HORIZON DESIGN FOR CLASS II SOIL  
 WITNESS: MR. CHENEVERT, SEEKONK BOARD OF HEALTH TESTING PERFORMED BY DEAN MONSEES ON SEPTEMBER 6, 2000

**LOT 4 - DEEP OBSERVATION HOLE 1**  
ORIGINAL ELEVATION - 148.13

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
0 - 4"	A	SANDY LOAM	10 YR 3/4		MASSIVE	FRIABLE	GRAVELLY
4" - 24"	Bw	SANDY LOAM	10 YR 4/6		MASSIVE	FRIABLE	GRAVELLY
24" - 108"	Cd	SANDY LOAM	2.5 Y 4/4	32" COMM., DIST., COARSE	MASSIVE	FRIABLE	GRAVELLY, COBBLY, STONY
108"	R						BOULDERS/LEDGE

OBSERVED STANDING GROUNDWATER - NONE OBSERVED WEeping GROUNDWATER - NONE ESTIMATED SEASONAL HIGH GW - 32" (ELEV.=145.46)  
 PERC. @ 41" + 18" = 1 MPI REMOVE TO INTO Cd HORIZON DESIGN FOR CLASS II SOIL

**LOT 4 - DEEP OBSERVATION HOLE 2**  
ORIGINAL ELEVATION - 145.61

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
0 - 5"	A	SANDY LOAM	10 YR 3/4		MASSIVE	FRIABLE	GRAVELLY
5" - 26"	Bw	SANDY LOAM	10 YR 3/6		MASSIVE	FRIABLE	GRAVELLY
26" - 118"	Cd	SANDY LOAM	2.5 Y 4/4	29" COMM., DIST., COARSE	MASSIVE	FRIABLE	GRAVELLY, COBBLY, STONY

OBSERVED STANDING GROUNDWATER - 109" (ELEV. 145.00) WEeping GROUNDWATER - 100" (ELEV. 145.00) ESTIMATED SEASONAL HIGH GW - 29" (ELEV.=143.19)  
 REMOVE TO INTO Cd HORIZON DESIGN FOR CLASS II SOIL

**LOT 4 - DEEP OBSERVATION HOLE 3**  
ORIGINAL ELEVATION - 149.08

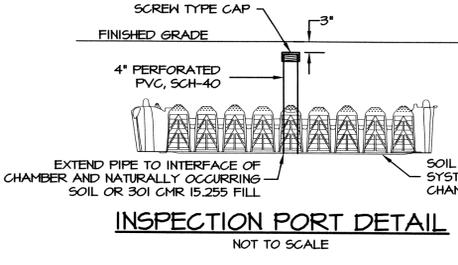
DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
0 - 7"	A	SANDY LOAM	10 YR 3/3		MASSIVE	FRIABLE	GRAVELLY
7" - 33"	Bw	SANDY LOAM	10 YR 4/6		MASSIVE	FRIABLE	GRAVELLY
33" - 135"	Cd	SANDY LOAM	2.5 Y 4/4	38" COMM., DIST., COARSE	MASSIVE	FRIABLE	GRAVELLY, COBBLY, STONY

OBSERVED STANDING GROUNDWATER - NONE OBSERVED WEeping GROUNDWATER - NONE ESTIMATED SEASONAL HIGH GW - 38" (ELEV.=145.91)  
 REMOVE TO INTO Cd HORIZON DESIGN FOR CLASS II SOIL

**LOT 4 - DEEP OBSERVATION HOLE 4**  
ORIGINAL ELEVATION - 145.18

DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	STRUCTURE	CONSISTENCE	OTHER
0 - 4"	A	SANDY LOAM	10 YR 3/4		MASSIVE	FRIABLE	GRAVELLY
4" - 33"	Bw	SANDY LOAM	10 YR 3/6		MASSIVE	FRIABLE	GRAVELLY
33" - 98"	Cd	SANDY LOAM	2.5 Y 4/4	33" COMM., DIST., COARSE	MASSIVE	FRIABLE	GRAVELLY, COBBLY, STONY
98"	R						BOULDERS/LEDGE

OBSERVED STANDING GROUNDWATER - NONE OBSERVED WEeping GROUNDWATER - NONE ESTIMATED SEASONAL HIGH GW - 33" (ELEV.=142.43)  
 PERC. @ 30" + 18" = 2 MPI REMOVE TO INTO Cd HORIZON DESIGN FOR CLASS II SOIL  
 WITNESS: BETH HALLAL, SEEKONK BOARD OF HEALTH TESTING PERFORMED BY CAPUTO AND WICK LTD. ON OCTOBER 21, 2013



**INSPECTION PORT DETAIL**  
NOT TO SCALE



**LOCATION MAP**  
NOT TO SCALE

**LEGEND**

- 100- EXISTING CONTOUR
- 100- PROPOSED CONTOUR
- MA. STD. INV.
- P. V. C.
- S. C. P.
- R. C. P.
- CONC.
- BIT.
- P.
- TYP.
- F.S. 100X100
- 100X100
- TOP OF CURB
- B. C.
- BOTTOM OF CURB
- PROPERTY LINE
- CHAIN LINK FENCE
- ST
- DB
- DB
- DB
- DB

EXISTING SPOT GRADE  
 PROPOSED SPOT GRADE  
 FINISHED SPOT GRADE  
 EXISTING SPOT GRADE  
 TOP OF CURB  
 BOTTOM OF CURB  
 PROPERTY LINE  
 CHAIN LINK FENCE  
 SEPTIC TANK  
 DISTRIBUTION BOX  
 DEEP OBSERVATION HOLE  
 PERCOLATION TEST HOLE

**LOT INFORMATION**  
 5 LINDSEY COURT  
 ASSESSORS PLAT NO. 26, LOT 160  
 HOLLAND WOODS LOT 4  
 ZONE - R-4  
 AREA = 81,562 S.F.

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT FOR THE LOCATION OF THE EXISTING WATER SERVICE CURB STOP FOR PLAT 26, LOT 160 AND WAS INFORMED THAT THERE IS NO CURB STOP CURRENTLY FOR THIS LOT. THE PROPOSED DWELLING WILL BE SERVED BY A PRIVATE WELL TO BE INSTALLED IN CONFORMANCE WITH THE SEEKONK BOARD OF HEALTH REGULATIONS.

**SEWAGE DISPOSAL SYSTEM**  
**5 LINDSEY COURT**  
**ASSESSORS PLAT 26 - LOT 160**  
**SEEKONK, MASSACHUSETTS**

**CAPUTO AND WICK LTD.**  
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 Environmental Services, Traffic Engineering and  
 Architectural Engineering  
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 HOLLAND, MA 01906-1807  
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 mail@cwalm.com  
 www.cwalm.com

**DATE**  
 AUGUST 2014

**SHEET**  
 1