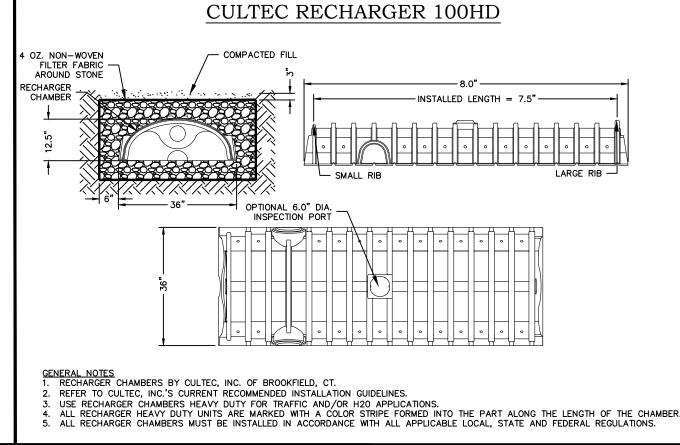
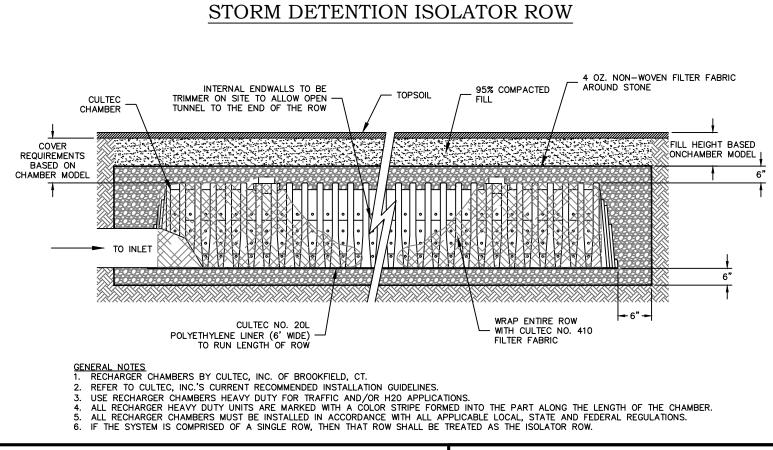


UNDERGROUND PROPANE TANK MANHOLE WITH LIF TAMPED BACKFILL TANK COMPACTED FILL (SAND OR PEA INSULATION MATERIAL BETWEEN TANK AND HOLD DOWN STRAPS - HOLD DOWN RODS ANCHOR BOLT REINFORCING BARS CONCRETE COUNTERWEIGHT -REINFORCING BARS #4 BARS @18" O.C. GRID NOTES 1. CHECK WITH UTILITY COMPANIES FOR LOCATIONS OF UNDERGROUND LINES. VERIFY LOCATIONS OF UNDERGROUND LAWN SPRINKLER LINES, SEPTIC TANKS, AND DRAIN FIELD LATERAL LINES BEFORE AUGURING GROUND ANCHORS. MAINTAIN PROPER SEPARATION IN ACCORDANCE WITH





GENERAL SEPTIC NOTES

- 1. THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENING SYSTEM OR THE OUTFLOW FROM A GARBAGE DISPOSAL OR TUB IN EXCESS OF 100 GALLONS
- 2. THIS SYSTEM IS TO BE CONSTRUCTED IN ACCORDANCE WITH ALL STATE AND LOCAL HEALTH REGULATIONS.
- 3. THE INSTALLATION OF THE SEPTIC SYSTEM SHALL BE UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER.
- 4. IT IS THE RESPONSIBILITY OF THE INSTALLER TO KEEP LOCAL HEALTH DEPARTMENT AND THE ENGINEER OF RECORD INFORMED OF CONSTRUCTION PROGRESS.
- 5. ALL PIPING BETWEEN HOUSE AND SEPTIC TANK SHALL BE FOUR INCHES IN DIAMETER WITH A MINIMUM SLOPE OF 1/4" PER FOOT OR SIX INCHES IN DIAMETER WITH A MINIMUM SLOPE OF 1/8" PER FOOT. MATERIALS MAY BE CAST IRON (HUBLESS OR BELL AND SPIGOT) ASTM A74, DUCTILE IRON ANSIA21.51, PVC SCHEDULE 40. ASTM D 2665, EXTRA STRENGTH PVC AWWA C-900 100 PSI MIN, DUCTILE IRON ANDI A 21.51, OR PVC ASTM 7 1760.
- 6. ALL PIPE USED BETWEEN THE SEPTIC TANK AND LEACHING AREA SHALL BE 4" SDR-35 PVC PIPE WITH WATERTIGHT JOINTS OR EQUIVALENT EQUAL. PIPE SHALL BE SET ON A MINIMUM SLOPE OF
- 7. STRIP AND STOCKPILE TOPSOIL AND REMOVE BOULDERS PRIOR TO PLACING FILL. ALL TOPSOIL MUST BE REMOVED IN FILL SYSTEMS.
- 8. THE MAXIMUM DEPTH OF THE BOTTOM OF A LEACHING SYSTEM BELOW FINISHED GRADE SHALL BE EIGHT (8) FEET. ANY FIELD CHANGES TO THE PROPOSED FINISH GRADE MUST BE APPROVED BY THE DESIGN ENGINEER AND THE LOCAL HEALTH DEPARTMENT.
- 9. SEPTIC TANK ACCESS SHALL BE OUTFITTED WITH 24" DIAMETER RISERS IF THE TOP OF THE TANK IS DEEPER THAN 12" FROM FINISHED GRADE.
- 10. RISER COVERS SHALL WEIGH A MINIMUM OF 59 LBS OR THE COVER SHALL BE PROVIDED WITH A LOCK SYSTEM TO PREVENT UNAUTHORIZED ENTRANCE. IT IS RECOMMENDED THAT TANK AVOID POTENTIAL ODOR PROBLEMS WHEN MANHOLE RISERS ASSEMBLIES ARE UTILIZED OVER CLEANOUT OPENINGS. SHOULD TANK COVER BE REMOVED WHEN EQUIPPED WITH A RISER ASSEMBLY, A SECONDARY SAFETY LID OR DEVICE SHALL BE
- 11. B&B ENGINEERING ASSUMES NO RESPONSIBILITY FOR COMPLIANCE WITH PLAN SPECIFICATIONS UNLESS B&B ENGINEERING SUPERVISES ALL PHASES OF THE INSTALLATION.
- 12. AS-BUILT DRAWING TO BE PREPARED BY PROFESSIONAL ENGINEER PRIOR TO BACKFILLING.
- 13. FINAL GRADING TO BE COMPLETED IMMEDIATELY AFTER COMPLETION OF AS-BUILT DRAWING.
- 14. THERE ARE NO WELLS WITHIN 75' OF PROPOSED SEPTIC SYSTEM. 15. THERE ARE NO STORM WATER DRAINAGE INFILTRATION SYSTEMS
- WITHIN 50' OF THE PROPOSED SEPTIC SYSTEM. "SELECT FILL" SPECIFICATIONS
- 1. FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN 3 INCHES. UP TO 45% OF THE DRY WEIGHT OF THE SAMPLE MAY BE RETAINED ON THE #4 SIEVE.

 3. OF THE MATERIAL THAT PASSES THE #4 SIEVE, IT MUST PASS THE FOLLOWING CRITERIA:

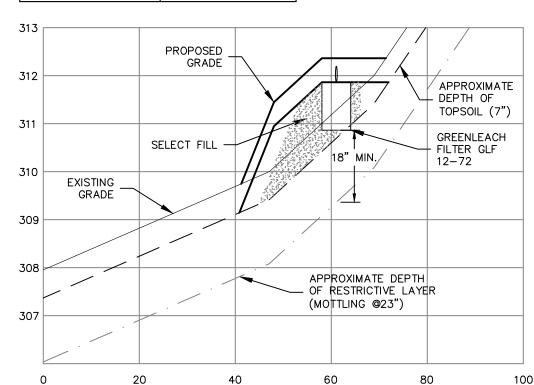
SIEVE SIZE	PERCENT PASSING			
SIEVE SIZE	WET SIEVE	DRY SIEVE		
#4	100	100		
#10	70-100	70-100		
#40	10-50	10-75		
#100	0-20	0-5		
#200	0-5	0-2.5		
•				

- NOTES

 1. 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
- 2. SIEVE ANALYSIS TO BE SUBMITTED TO THE DESIGN ENGINEER AND THE HEALTH DEPARTMENT BEFORE THE START OF

DESIGN DATA		ELEVATIONS		M.L.S.S.						
PROPOSED BEDROOMS:	5	INVERT AT HOUSE	314.00	RESTRICTIVE LAYER						
REQUIRED SEPTIC TANK	1,250 GALLON	SEPTIC TANK INLET INVERT	312.75	DEEP TEST #	DT-1	DT-2	DT-5	DT-3		
PROPOSED SEPTIC TANK	1,250 GALLON	SEPTIC TANK OUTLET INVERT	312.50	ELEVATION	311.0	312.0	311.5	310.0		
PRIMARY LEACHING SYSTEM		DISTRIBUTION BOX	312.30	SYSTEM EMBEDMENT	_	_	_	D/G		
ESIGN PERCOLATION RATE	20.1-30.0 MIIN/INCH	BOTTOM ELEV. ROW 1	311.30	DESIGN RL DEPTH	27"	23"	38"	23"		
E.L.A. REQUIRED	1,000.0 SF		AVERAGE DESIGN RL		[((27+23+38)/3)+((23+23)/2)]/2=26.2"					
LEACHING SYSTEM (LF)	100 LF OF GREENLEACH FILTER GLF 12-72				HYDRAULIC FACTOR (HF)					
E.L.A. PROVIDED	100 LF X 10.1 ELA =		AVERAGE DESIGN RESTRICTIVE LAYER		E LAYER	26.2"				
	1,010.0 SF			SLOPE			6.1-8.0%			
RESERVE SYSTEM				DESIGN HY	DESIGN HYDRAULIC FACTOR 28			28.0		
LEACHING SYSTEM (LF)	GEOMATRIX GST 6224 (56 LF)	PERCOLATION FACTOR (PF)								
E.L.A. PROVIDED	56 LF X 18.1 ELA = 1,013.6 SF		PERCO		20.1-30.0 MIN/INCH					
	1,013.0 35		DESIGN PER	DESIGN PERCOLATION FACTOR			1.50			

PROPOSED SEPTIC SYSTEM

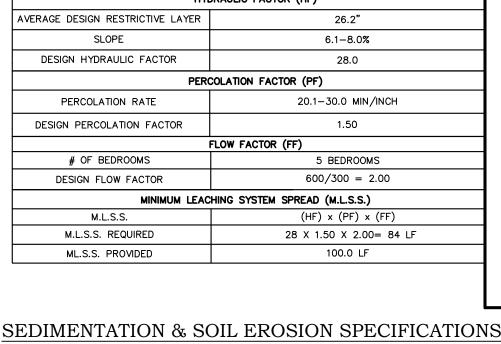


CROSS - SECTION 'A - A' SCALE: HORIZ.1"=20': VERT.1"=2'

GRADING & DRAINAGE NOTES

- **ABBREVIATIONS** PVC = POLYVINYL CHLORIDE PIPE (SDR-35) HDPE = HIGH DENSITY POLYETHYLENE PIPE RCP = REINFORCED CONCRETE PIPE CB = CATCH BASIN INV = INVERT
- LF = LINEAR FEET ACCMP = ASPHALT COATED CORRUGATED METAL PIPE HERCP = HORIZONTAL ELIPTICAL REINFORCED CONCRETE PIPE
- 2. THE CONTRACTOR SHALL FLUSH AND CLEAN ALL EXISTING ON—SITE STORM PIPING AND STRUCTURES THAT ARE TO BE MAINTAINED.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE DRAINAGE STRUCTURES FOR THE INDICATED PIPE CONNECTIONS.
- 4. THE PIPE LENGTHS SHOWN ARE APPROXIMATE
- 5. ALL PROPOSED CATCH BASINS SHALL HAVE A 2' SUMP, UNLESS OTHERWISE
- 6. ALL SLOPES TO BE NO GREATER THAN 3' HORIZONTAL TO 1' VERTICAL.

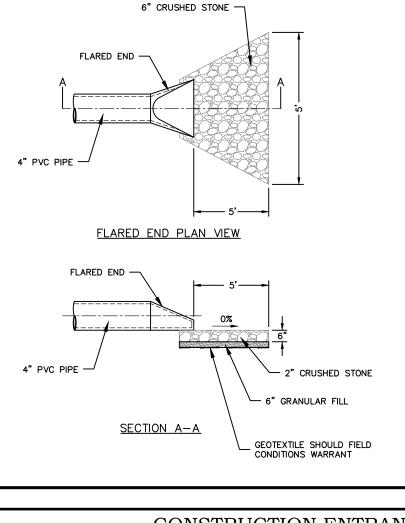
DT-4 309.5 D/G 23" FLOW FACTOR (FF) # OF BEDROOMS 5 BEDROOMS DESIGN FLOW FACTOR 600/300 = 2.00MINIMUM LEACHING SYSTEM SPREAD (M.L.S.S.) M.L.S.S. $(HF) \times (PF) \times (FF)$ M.L.S.S. REQUIRED 28 X 1.50 X 2.00= 84 LF



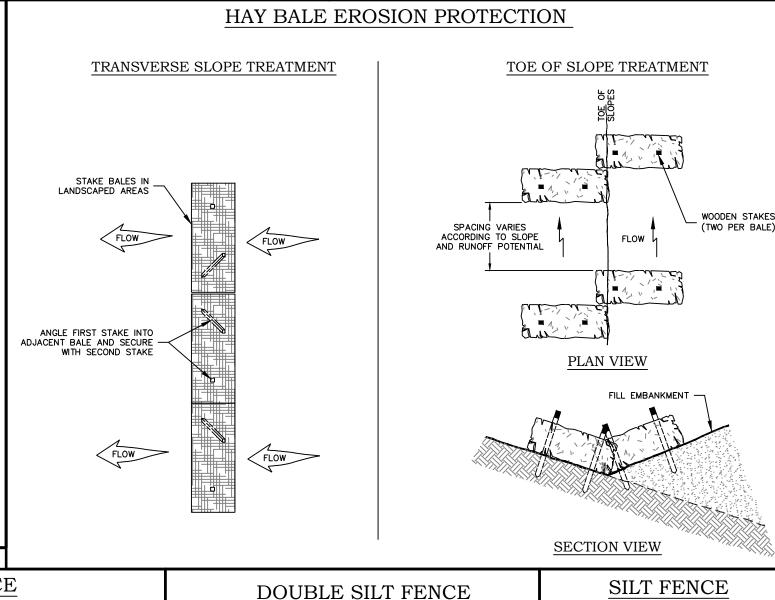
- THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.
- ALL CONSTRUCTION ACTIVITIES SHALL PROCEED SO THAT POLLUTION OF ANY WETLANDS, WATERCOURSES, WATERBODY, AND OR CONDUIT CARRYING WATER, ETC. DOES NOT OCCUR. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF DJACENT WETLANDS, WATERCOURSES AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE EROSION ON THE SITE.
- 3. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2002) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.
- IMPLEMENTATION NOTES 1. THE EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE. ALL CONTROL MEASURES ARE TO BE MAINTAINED IN AN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. ADDITIONAL MEASURES ARE TO BE INSTALLED IF NECESSARY OR REQUIRED DURING CONSTRUCTION
- 2. LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RESTABLIZATION TO BE SCHEDULED AS SOON AS PRACTICAL.
- 3. POST AND FABRIC SILTATION BARRIERS SHALL BE INSTALLED AT THE TOE OF ALL CRITICAL CUT AND FILL SLOPES. SILT FENCES AND BARRIERS MUST BE CLEANED OR REPLACED
- 4. ALL STORM DRAINAGE OUTLETS MUST BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 5. SEDIMENT TRAPS, IF APPLICABLE, MUST BE CLEANED WHEN CAPACITY HAS BEEN REDUCED BY AN AVERAGE OF 2' OVER ITS TOTAL AREA OR TO 80% OF ITS DESIGN VOLUMES,
- WHICHEVER OCCURS FIRST 6. SEDIMENT REMOVED FROM THE CONTROL STRUCTURES SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH THE INTENT OF THE PLAN AND IN ACCORDANCE WITH LOCAL,
- 7. FILL MATERIAL SHALL BE FREE FROM DEBRIS PERISHABLE OR COMBUSTIBLE MATERIAL AND
 - FROZEN OR WET EARTH OR STONES LARGER THAN 6 INCHES IN MAXIMUM DIMENSION. FILL SHALL BE PLACED IN MAXIMUM 12 INCH LOOSE LIFTS AND COMPACTED TO WITHIN
 - 8. PAVEMENT BASE COURSE MUST BE PLACED IN ALL PROPOSED PAVEMENT AREAS UPON
 - 9. PERMANENT LANDSCAPED AREAS SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS IMMEDIATELY AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE PRIOR TO PERMANENT SEEDING. 9.1. TOPSOIL PREPARATION:
 - 9.1.1. TOPSOIL SHOULD BE A MINIMUM OF FOUR INCHES DEEP (COMPACTED) BEFORE 9.1.2. HAVE TOPSOIL TESTED FOR PH, ADD LIME AS NECESSARY TO ACHIEVE PH OF 6.5. APPLY FERTILIZER AT A RATE OF 300 POUNDS PER ACRE OR SEVEN POUNDS PER 4,000 SQUARE FEET USING 10-20-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS 38-0-0 PER ACRE OF SLOW RELEASE NITROGEN MAY BE USED IN LIEU OF TOP DRESSING.
 - 9.1.3. WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF FOUR INCHES WITH A DISC, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE ALL CLAY OR SILTY SOIL AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEED BED WHEREVER FEASIBLE.
 - REMOVE FROM THE SURFACE ALL STONES ONE INCH OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMP, OR OTHER UNSUITABLE MATERIAL. INSPECT SEED BED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT SOIL COMPACT THE AREA MUST BE RE-TILLED AND COMPACTED AS ABOVE.
 - 9.2. SEED MIXTURE (APPLY AT A RATE OF 200 POUNDS/ACRE): 9.2.1. 10% KENTUCKY BLUEGRASS - BARON MIX 9.2.2. 20% PERENNIAL RYEGRASS

ASSIGNED TO THE OWNER OF RECORD.

- 70% TURF TYPE TALL FESCUE 10. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR ALL PAVED ROADWAYS ON AND OFF SITE
- AND MUST ENSURE THE SITE IS FREE OF SITE GENERATED SEDIMENT AT ALL TIMES. DUST SHALL BE CONTROLLED BY SPRINKLING OR ANOTHER APPROVED METHOD. 11. ALL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSPECTED ON A DAILY BASIS AND CLEANED IMMEDIATELY AFTER EACH STORM.
- 12. WHERE DEWATERING IS NECESSARY, THERE SHALL NOT BE A DISCHARGE DIRECTLY INTO WETLANDS OR WATERCOURSES. PROPER METHODS AND DEVICES SHALL BE UTILIZED TO THE EXTENT PERMITTED BY LAW, SUCH AS PUMPING WATER INTO A TEMPORARY SEDIMENTATION STRUCTURE OR BOWL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, OR FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF PUMPING OPERATION CAUSES TURBIDITY PROBLEMS, THE OPERATION SHALL CEASE UNTIL FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED.
- 13. THE RESPONSIBILITY FOR: IMPLEMENTING THE EROSION AND SEDIMENT CONTROL PLAN, INFORMING ALL CONCERNED OF THE REQUIREMENT OF THE PLAN; NOTIFYING THE PLANNING AND ZONING COMMISSION, ITS DESIGNATED REPRESENTATIVE OF ANY TRANSFER OF RESPONSIBILITY AND SEEING THAT A COPY OF THE PLAN IS RECEIVED BY ANY SUCCESSOR IN INTEREST TO THE TITLE OF THE LAND OR ANY PORTION THEREOF IS
- 14. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION, WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT



CRUSHED STONE APRON



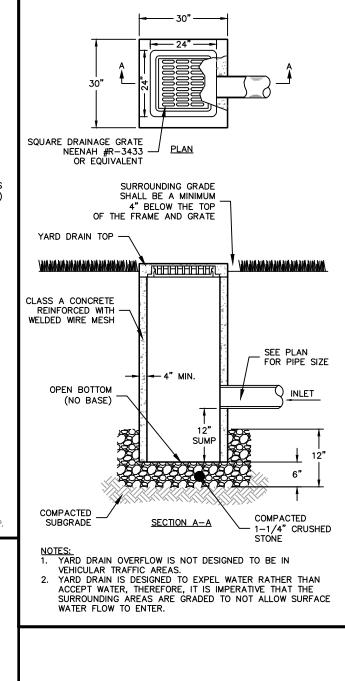
-NOT TO SCALE-

EXCAVATE AND SECURE BOTTOM 8" OF SILT FENCE BELOW GRADE

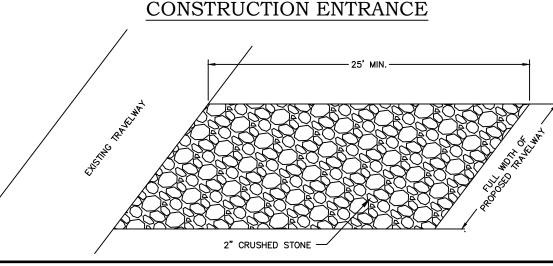
EXCEPT FOR THE END POST. DRIVE ALL POST INTO THE GROUND AT

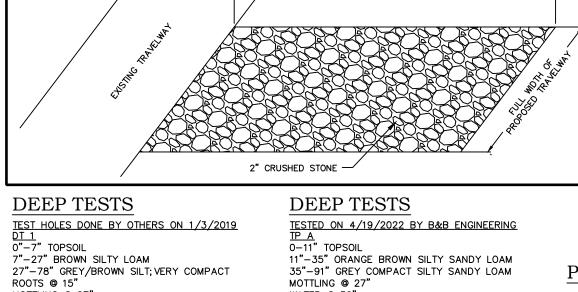
BACK SIDE OF TRENCH SPACED A MAXIMUM OF 10 FT O. C.

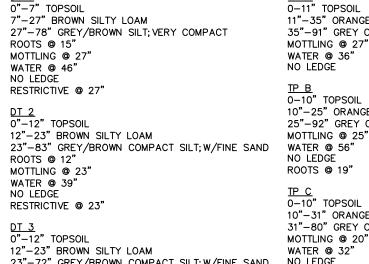
SURFACE RUNOF

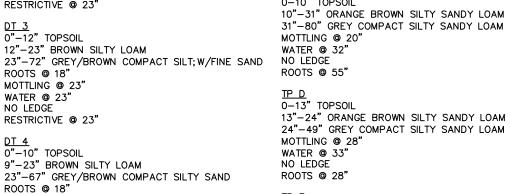


30" YARD DRAIN OVERFLOW









TP E 0-12" TOPSOIL

MOTTLING @ 28"

WATER @ 33"

ROOTS @ 28"

<u>TP-102</u> 0-24" TOPSOIL

MOTTLING @ 39"

WATER @ 56"

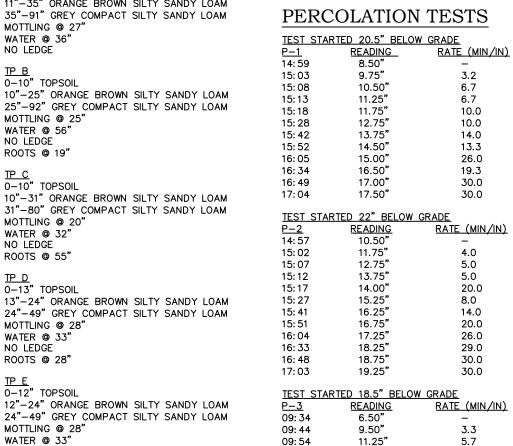
NO LEDGE

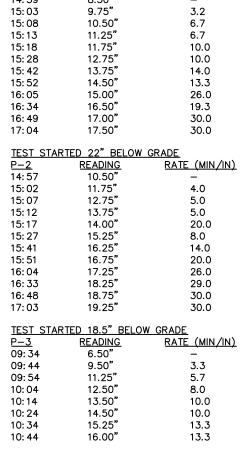
24"-46" ORANGE BROWN SILTY SANDY LOAM

46"-82" GREY COMPACT SILTY SANDY LOAM

NO LEDGE

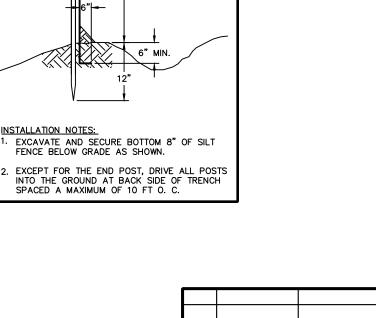


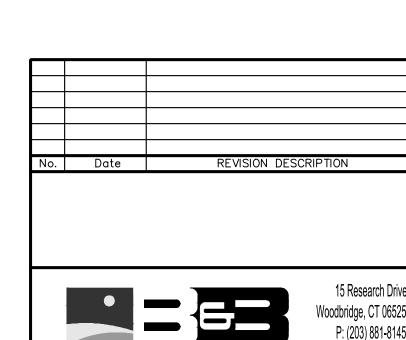




TRENCHED SILT -FENCE (TYP)

INSTALLATION NOTES:







Land Surveying, Professional Engineering & Land Use Consultants PROPOSED

SITE DEVELOPMENT PLAN

48 KETTLE CREEK ROAD WESTON, CONNECTICUT

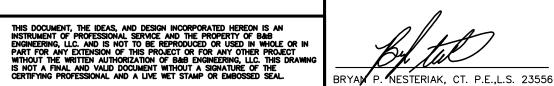
PREPARED FOR TOM KELLEY TOWNE BUILDING & DEVELOPMENT 28 HERMIT LANE

WESTPORT, CONNECTICUT TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

AS NOTED 1097

4/2/2024

www.bbengrs.com



rawing No. 2 of 2