



8677 STATE ROUTE 53
NAPLES, NEW YORK 14512
585-797-3989 PHONE
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grove.engineering@yahoo.com

PROPOSED SEPTIC SYSTEM DESIGN

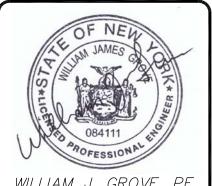
RAISED FILL WITH ENHANCED TREATMENT

CUVELIER RESIDENCE 4691 N. MENTETH DR T.M. #140.11-1-14.0

TOWN OF CANANDAIGUA ONTARIO COUNTY NEW YORK

AUGUST 27, 2020

SHEET 1 OF 8



WILLIAM J. GROVE, PE NYS LICENSE #084111

GENERAL NOTES:

- 1. SITE INVESTIGATION CONSISTING OF ONE (1) DEEP TEST PIT AND TWO PERCOLATION (PERC) TESTS, WAS PERFORMED ON OCTOBER 23, 2019 BY WILLIAM J. GROVE, P.E. SEE "SOILS INFORMATION" FOR SUMMARIZED SITE INVESTIGATION RESULTS. BASED ON THE RESULTS OF THE SITE INVESTIGATION, AN ENHANCED TREATMENT SYSTEM WITH A CONVENTIONAL ABSORPTION BED IS PROPOSED.
- 2. GIVEN THE WATERFRONT LOCATION OF THE PROPERTY AND LIMITED SPACE ON THE SITE FOR FUTURE EXPANSION OF THE SYSTEM, ENHANCED TREATMENT WITH NITROGEN REDUCTION IS PROPOSED TO EXTEND THE LIFE OF THE LEACHING SYSTEM AND PROTECT THE WATERSHED.
- 3. LOCATIONS OF THE SYSTEM COMPONENTS ARE SHOWN IN THE PLAN VIEW AND COMPONENT DETAILS ARE SHOWN SEPARATELY.
- 4. THE SEPTIC SYSTEM IS DESIGNED TO TREAT AND DISPERSE 600 GALLONS PER DAY BASED ON THE PROPOSED 3 BEDROOM RESIDENCE (DESIGNED FOR 4 BEDROOMS DUE TO HOUSE SQ FOOTAGE), ITS PROPOSED USE AND THE DOH REGULATION.
- 5. THE PROPOSED WASTEWATER TREATMENT SYSTEM IS DESIGNED FOR NORMAL RESIDENTIAL USAGE WITH A MAXIMUM DAILY FLOW OF 600 GALLONS PER DAY. HIGH FLOW FIXTURES (SHOWER HEADS, FAUCETS, TOILETS, ETC.) ARE NOT TO BE INSTALLED OR USED IN THE HOUSE. USE OF HIGH FLOW FIXTURES AND/OR MULTIPLE SHOWER HEADS IN THE HOME COULD CAUSE HYDRAULIC OVERLOADING OF THE SYSTEM AND LEAD TO PREMATURE FAILURE OF THE SEPTIC SYSTEM.
- 6. WATER SUPPLY WILL BE SERVICED BY TOWN OF CANANDAIGUA WATER, WITH WATER SERVICE AS SHOWN.
- 7. THE BACKFILL IS TO BE GRADED TO ROUTE SURFACE WATER AWAY FROM THE ABSORPTION FIELD.
- 8. WATER TREATMENT SYSTEM WASTES (SUCH AS FROM A WATER SOFTENER) ARE TO BE EXCLUDED FROM THE SYSTEM.
- 9. IF THE HOUSE USES A WATER SOFTENER, THE WATER SOFTENER DISCHARGE SHALL NOT BE ROUTED TO THE WASTEWATER SYSTEM. THE WATER SOFTENER DISCHARGE SHOULD BE DIRECTED TO ITS OWN SUBSURFACE DISPOSAL SYSTEM LOCATED AWAY FROM THE PROPOSED LEACH AREA.
- 10. NO "CLEAN" WATER IS TO ENTER THE SYSTEM VIA ROOF DRAINS, SUMP PUMPS, FOOTING DRAINS, ETC. THE SYSTEM IS A DISPOSAL UNIT FOR COMMON BATHROOM, LAUNDRY AND KITCHEN WASTES ONLY. GARBAGE GRINDERS ARE NOT TO BE USED ON THIS SYSTEM.
- 11. THE CONTRACTOR IS TO CONTACT DIG SAFELY NEW YORK AT 800-962-7962 TO VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO DOING ANY EXCAVATION WORK.
- 12. NO PART OF THE SYSTEM IS TO BE LOCATED UNDER DRIVEWAYS, BUILDINGS, SWIMMING POOLS OR OTHER AREAS SUBJECT TO HEAVY LOADING UNLESS DESIGNED FOR SUCH.
- 13. HEAVY CONSTRUCTION EQUIPMENT MUST NOT BE ALLOWED WITHIN THE AREA OF THE SYSTEM PRIOR TO CONSTRUCTION
- 13. ALL VEGETATION SHALL BE CUT AS CLOSE TO GRADE AS POSSIBLE AND REMOVED.
- 14. UNDERLYING SOIL SHALL BE PLOWED WITH AT LEAST A DOUBLE BOTTOMED BLADE/FURROW PLOW AND THE FURROW TURNED UPSLOPE.
- 15. AFTER THE SITE HAS BEEN CLEARED AND PLOWED, ALL TRAFFIC SHALL BE EXCLUDED.
- 16. SOIL WITH A PERCOLATION RATE OF 11-15 MINUTES PER INCH IS REQUIRED
- 17. PERCOLATION TESTS SHALL BE CONDUCTED IN THE IN SITU FILL MATERIAL AT THE BORROW PIT AND IN THE STABILIZED FILL MATERIAL AT THE CONSTRUCTION SITE.
- 18. SOILS WHOSE PERMEABILITY CHARACTERISTICS WILL NOT CHANGE SIGNIFICANTLY UPON STABILIZATION (I.E., SAND AND SANDY LOAM) MAY BE MECHANICALLY COMPACTED OR ALLOWED TO SETTLE NATURALLY.
- 19. MECHANICAL COMPACTION SHALL BE ACHIEVED VIA LIGHT TRACK TYPE MACHINES
 (BULLDOZER OR FRONT END LOADER WITH DOWNWARD BLADE/BUCKET PRESSURE) OR A
 STEEL WHEELED ROLLER. MECHANICAL COMPACTION SHALL BE ACCOMPLISHED IN
 SHALLOW LIFTS (APPROXIMATELY 6") TO THE APPROXIMATE DENSITY OF THE UNDISTURBED
 BORROW PIT SOIL.
- 20. THE TOPSOIL SURFACE OF THE FILL SHALL BE GRADED TO ENHANCE RUNOFF OF PRECIPITATION.
- 21. ON SLOPED SITES, A DIVERSION DITCH OR CURTAIN DRAIN SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
- 22. RAISED SYSTEM SHALL INCORPORATE AN AUTOMATIC DOSING DEVICE OR PRESSURE DISTRIBUTION. GRAVITY DISTRIBUTION MAY BE INSTALLED UNDER THE JURISDICTION OF A LOCAL HEALTH DEPARTMENT WITH A SYSTEM DESIGN AND CONSTRUCTION INSPECTION CERTIFICATION PROGRAM.
- 23. DISTRIBUTION PIPE DIAMETERS FOR DOSING SHALL BE IN THE RANGE OF 3 INCHES

MINIMUM TO 6 INCHES MAXIMUM. DISTRIBUTION PIPE DIAMETERS FOR PRESSURE DISTRIBUTION SHALL BE IN THE RANGE OF 1 INCH MINIMUM TO 3 INCHES MAXIMUM. USE 4 INCH DIAMETER PERFORATED PIPE OR "INFILTRATOR EQ.-24" TYPE CHAMBER FOR GRAVITY DISTRIBUTION IN CONVENTIONAL SYSTEM. USE 4 INCH DIAMETER PERFORATED PIPE OR "INFILTRATOR EQ.-24" TYPE CHAMBERS WITH HANGING PERFORATED PIPE IN A RAISED FILL SYSTEM UTILIZING AN AEROBIC TREATMENT UNIT.

- 24. MINIMUM 4 OF UNDISTURBED SOIL REQUIRED BETWEEN TRENCHES.
- 5. EXCAVATE 4^I WIDE TRENCHES AS SHOWN ON THE PLAN VIEW. HAND RAKE BOTTOM AND SIDES OF TRENCH AND REMOVE ANY LOOSE MATERIAL. FILL TRENCH WITH 6^{II} OF SPECIFIED SYSTEM SAND. SYSTEM SAND MUST MEET THE REQUIREMENTS OF ASTM C-33 AND THE PRESBY ENVIRONMENTAL DESIGN MANUAL. CONCRETE SAND MAY BE ACCEPTABLE FOR USE AS SYSTEM SAND PROVIDING THAT NO MORE THAN 2% CAN PASS A #200 SIEVE.
- 26. INSTALL THE ADVANCED ENVRO-SEPTIC PIPES ON THE SYSTEM SAND. PIPES TO BE INSTALLED AT 2' ON CENTER AND CENTERED IN THE TRENCH. FILL AROUND, BETWEEN AND 6" ON TOP OF PIPES WITH SYSTEM SAND AS SHOWN ON THE CROSS SECTION.
- 27. PLACE MINIMUM 6" OF TOPSOIL ON TRENCHES, SEED AND MULCH TO ESTABLISH MOWABLE
- 28. THE ENVIRO-SEPTIC PIPES SHOULD NEVER BE DOSED WITH A FLOW GREATER THAN 40 GPM.
- 29. THE CONTRACTOR SHALL PROVIDE AN ACCURATE AS-BUILT MAP TO THE OWNER REFERENCING ALL SYSTEM COMPONENTS TO PERMANENT SITE FEATURES FOR LATER RECOVERY.
- 30. A SERVICE CONTRACT IS TO BE MAINTAINED PERPETUALLY FOR THE LIFE OF THE ENHANCED TREATMENT UNIT WITH AN AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER, WHICH PROVIDES FOR, AT A MINIMUM, SEMI-ANNUAL INSPECTIONS FOR AS LONG AS THE UNIT IS IN USE. A COPY OF SUCH CONTRACT SHALL BE PROVIDED TO THE LOCAL CODE ENFORCEMENT OFFICER.
- 31. IN THE EVENT OF SALE OR TRANSFER OF PROPERTY OWNERSHIP, THE NEW OWNER IS TO BE NOTIFIED OF THE CONDITIONS OF THIS SYSTEM INCLUDING THE REQUIREMENT FOR A SERVICE CONTRACT, AND THE NEW OWNER SHALL PROVIDE A COPY OF THE NEW SERVICE CONTRACT TO THE PARTIES LISTED ABOVE.
- 32. AFTER AN ENVIRONMENTAL ASSESSMENT, THE ENGINEER HAS DETERMINED THAT THE DEVELOPMENT OF THE SITE WITH THE PROPOSED SYSTEM IS CONSISTENT WITH THE OVERALL DEVELOPMENT OF THE AREA AND WILL CAUSE NO ADVERSE ENVIRONMENTAL IMPACTS.
- 33. THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM MUST BE DESIGNED AND THE INSTALLATION SUPERVISED AND CERTIFIED BY A DESIGN PROFESSIONAL.
- 34. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO CONTACT THE LOCAL CODE ENFORCEMENT OFFICER ABOUT ANY REQUIRED PERMITS OR FEES BEFORE STARTING WORK ON THE SYSTEM INSTALLATION

DESIGN CALCULATIONS:

DESIGN FLOW PROPOSED 3 BEDROOM HOUSE (DESIGNED AS 4 REPROOM)

4 @ 150 GPD/BR = 600 GPD

ENHANCED TREATMENT UNIT: 750 GPD NSF 245, CLASS 1 APPROVED NORWECO TNT-750 OR EQUAL

DESIGN PERC. RATE: 11-15 MINUTES/INCH

REQUIRED BASAL AREA: 2000 SQUARE FEET (0.3 GPD/SF) 1450 SF PROPOSED (0.41 GPD/SF)

REQUIRED LENGTH OF GSF TRENCH: 108 LF FEET REQUIRED (TABLE 6D) 128 FEET PROPOSED

FOUR (4) 32 FOOT LONG GSF TRENCHES ARE PROPOSED. TOTAL DISTRIBUTION LATERAL LENGTH IS $128\ \text{FEET}.$

LATERALS TO BE SPACED AT 8' ON CENTER

CALCULATION REFERENCE BASED ON N.Y.S.D.O.H., "INDIVIDUAL RESIDENTIAL WASTEWATER TREATMENT SYSTEMS — DESIGN HANDBOOK", 2012, AND APPENDIX 75—A

PERCOLATION TEST RESULTS:

TESTS PERFORMED ON OCTOBER 23, 2019

TEST NUMBER	<u>DEPTH</u>	PERC RATES (MIN/INCH)	STABILIZED PERC RATE	™ 17 TP−1	TEST PIT LOCATION
PT -2 PT -1	12" 12"	7, 8, 8, 8 10, 12, 13, 13	8 MIN/INCH 13 MIN/INCH	\circ	CLEAN-OUT
			•	\cup	CLEAN-OUT

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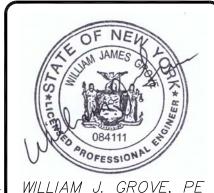
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AUGUST 27, 2020

SHEET 2 OF 8



NYS LICENSE #084111

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SOILS INFORMATION:

KEY:

PERC TEST LOCATION

DARK BROWN SHALEY TOPSOIL,

LIGHT BROWN AND GRAY SILTY LOAM

DARK BROWN SILTY LOAM

DH -1

0" - 12"

12" - 23"

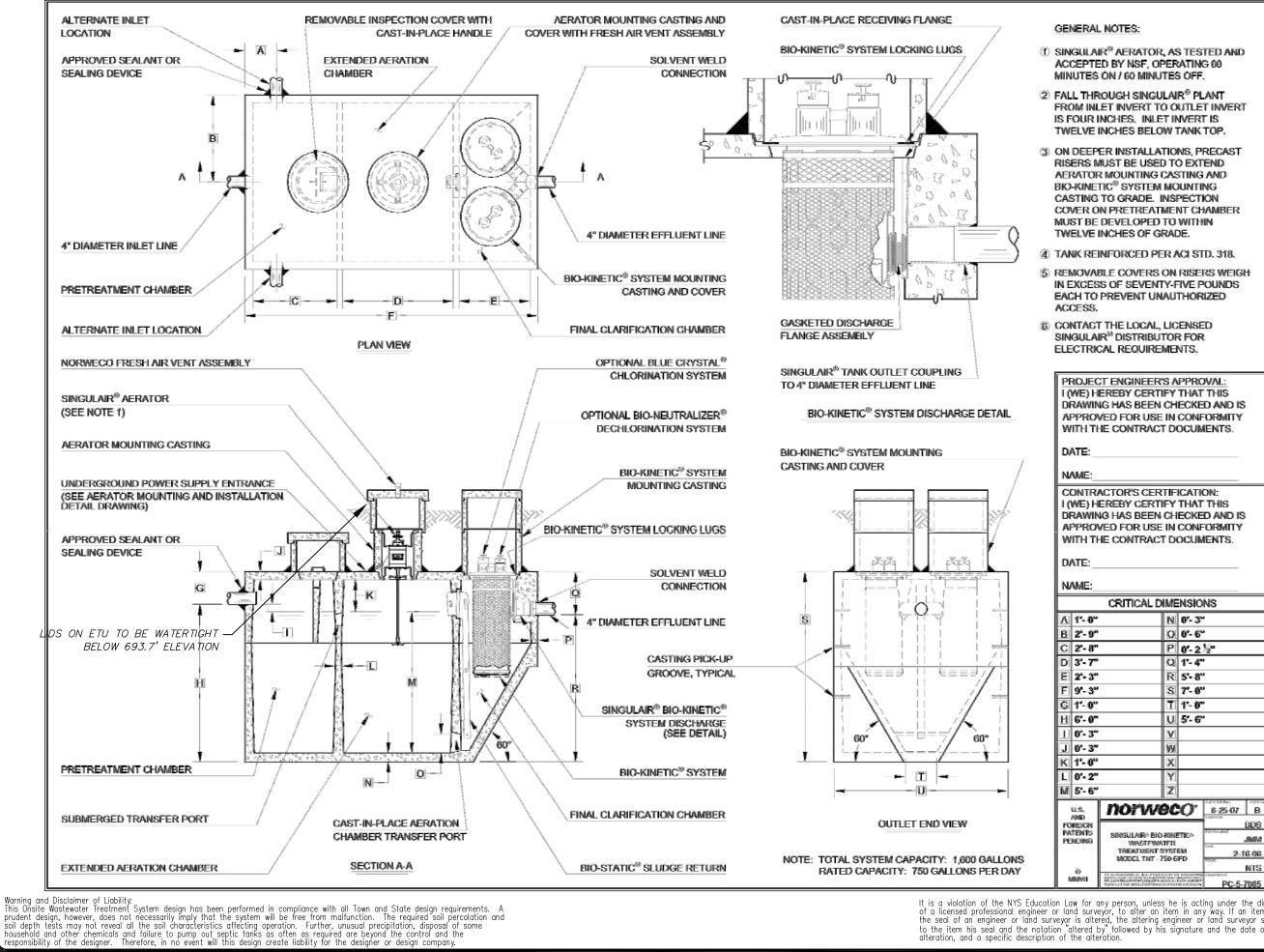
23" - 48"

ROOTS TO 22"

NO MOTTLING OBSERVED

Warning and Disclaimer of Liability.

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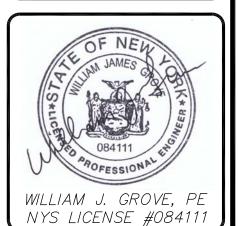
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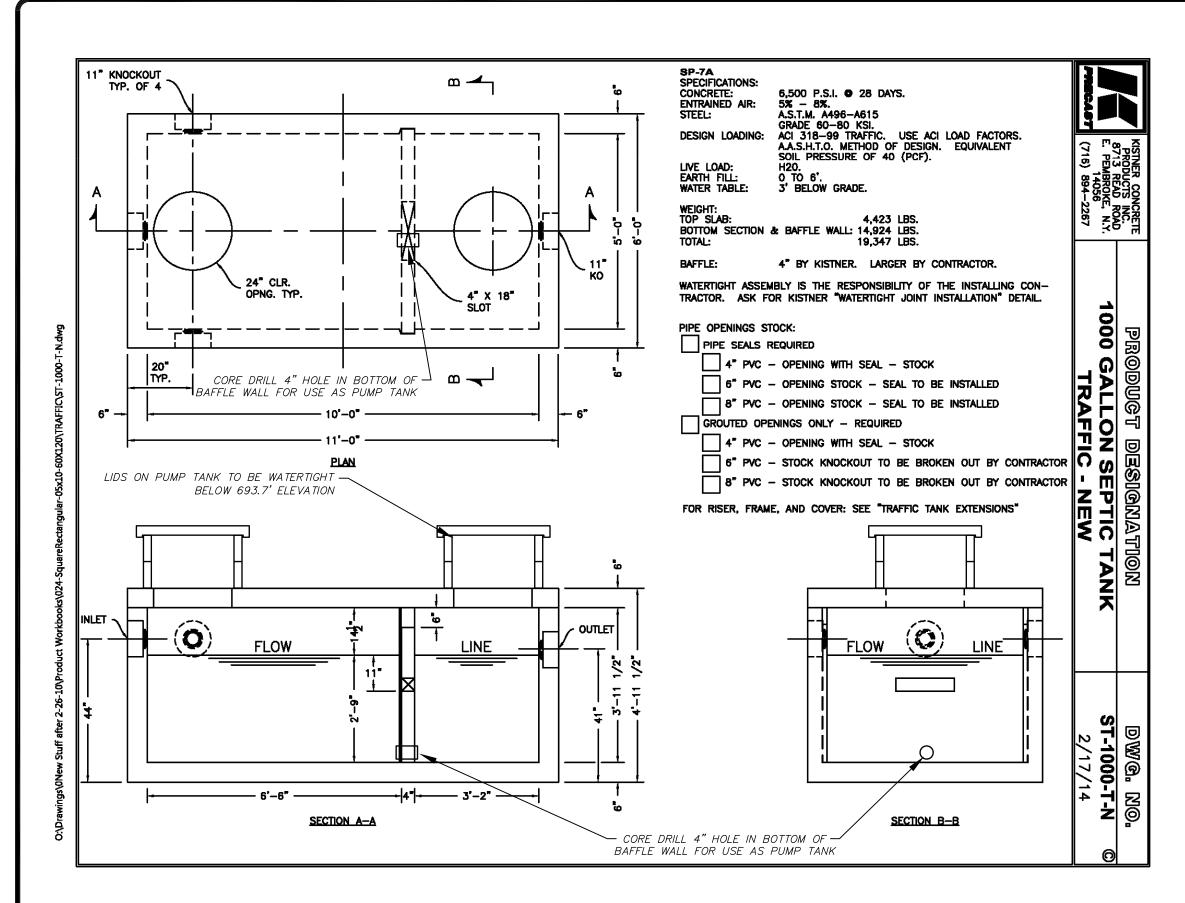
SHEET 3 OF 8



BDS

High

NTS





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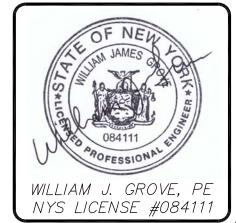
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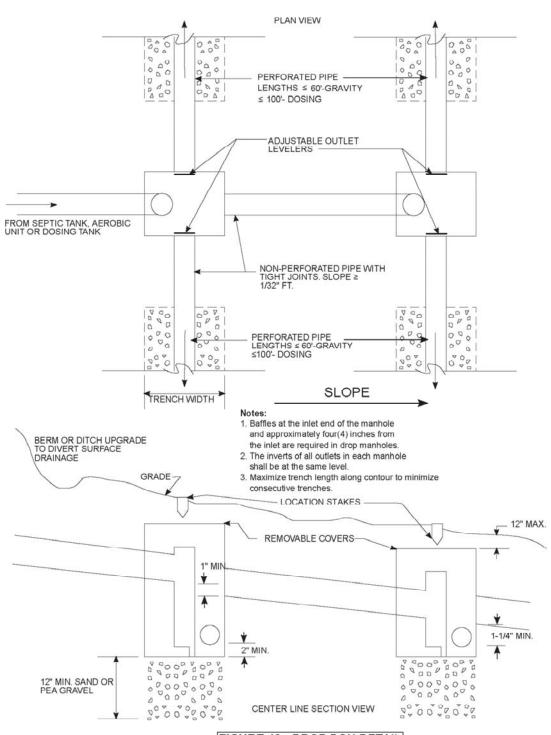


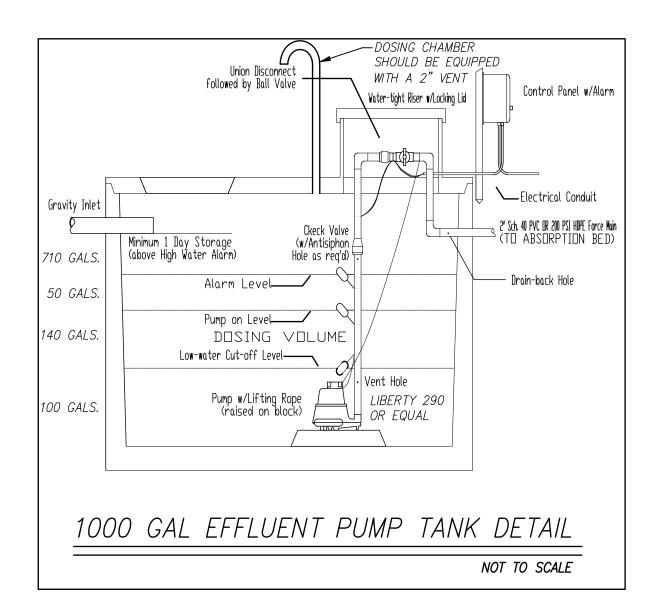
FIGURE 12: DROP BOX DETAIL

114

DROP BOX DETAILS

NOT TO SCALE

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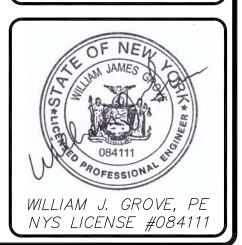
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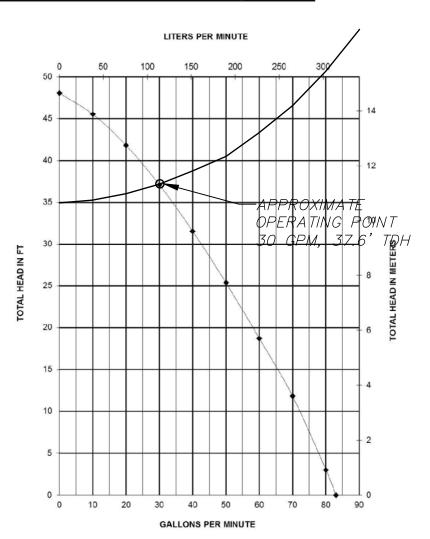
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Pump Specifications

290 Series 3/4 hp Submersible Effluent Pump





290 P1 R09/7/2011

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EFFLUENT PUMP DE	SIGN CALCULATIONS		
PUMP ELEVATION	686.3′		
OUTLET ELEVATION	721.7′		
STATIC HEAD	35.4′		
FORCE MAIN LENGTH	118′		
FORCE MAIN DIAMETER	2"		
FORCE MAIN VOLUME/LF	0.163 GAL		
TOTAL FORCE MAIN VOLUME	19.2 GAL		
ANTICIPATED FLOW RATE	30 GPM		
FRICTION HEAD AT FLOW RATE	2.2′		
TOTAL DYNAMIC HEAD	37.6′		
TOTAL LENGTH OF DISTRIBUTION PIPE	128′		
DISTRIBUTION PIPE DIAMETER	12 "		
DISTRIBUTION PIPE VOLUME/LF	5.8 GAL		
TOTAL DISTRIBUTION PIPE VOLUME	742.4 GAL		
PR□P□SED D□SE V□LUME	140 GAL (±5 DOSES PER DAY + DRAINBACK)		



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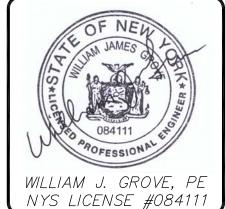
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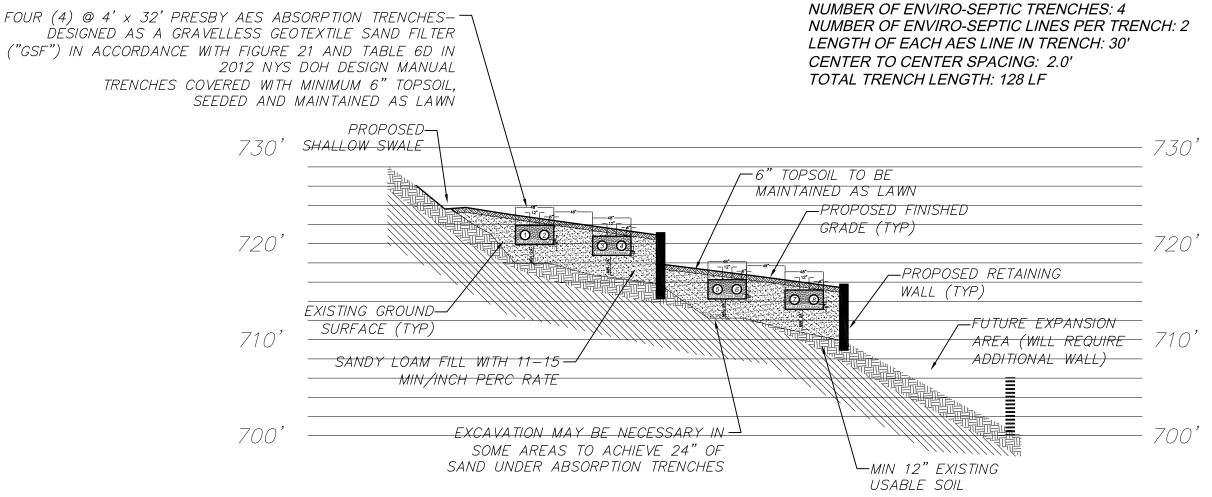
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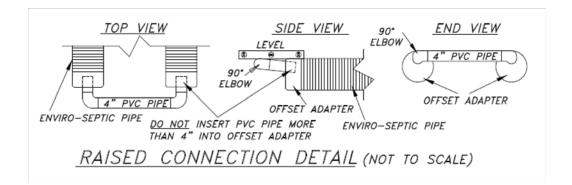
SHEET 6 OF 8



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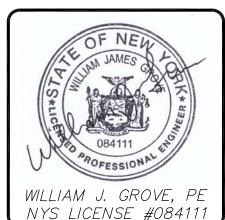
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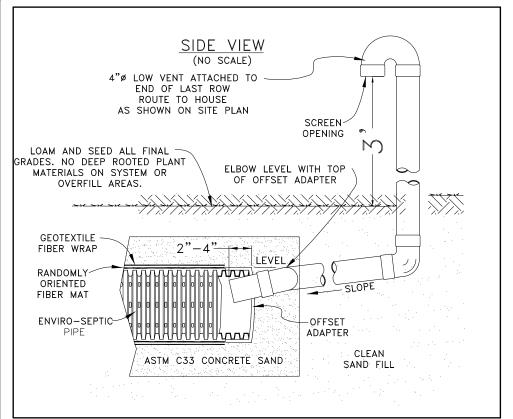
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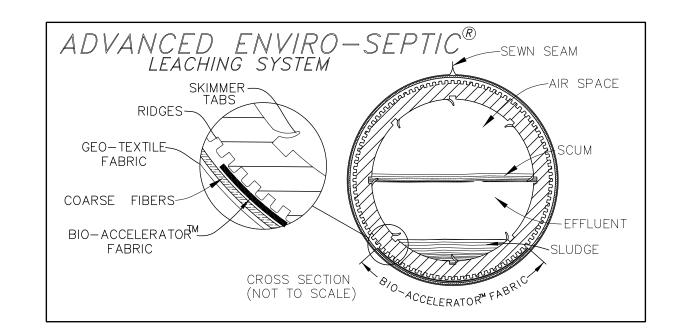
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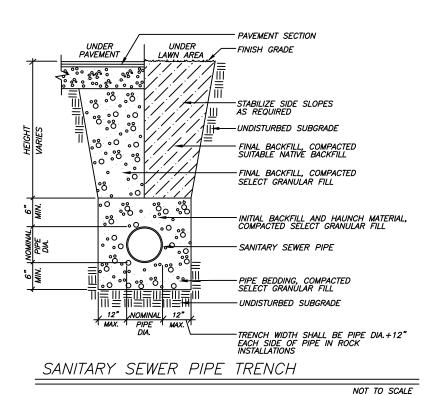
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PAVEMENT SECTION UNDER PAVEMENT IAWN ARFA 98° , %, %, %, %, %, STABILIZE SIDE SLOPES
AS REQUIRED UNDISTURBED SUBGRADE FINAL BACKFILL, COMPACTED SUITABLE NATIVE BACKFILL FINAL BACKFILL, COMPACTED SELECT GRANULAR FILL -2" RIGID FOAM INSULATION IF NOT DRAINED BACK OR BELOW FROST DEPTH -INITIAL BACKFILL AND HAUNCH MATERIAL, COMPACTED SANDY LOAM OR SAND TRACER WIRE FORCE MAIN UNDISTURBED SUBGRADE -TRENCH WIDTH SHALL BE PIPE DIA.+12" EACH SIDE OF PIPE IN ROCK INSTALLATIONS

NOT TO SCALE

FORCE MAIN TRENCH

INSTALL PVC CAP 6" ABOVE FINISHED GRADE OR INSTALL UNDER FRAME AND COVER MARKED "C.O." INSTALLED FLUSH SYRACUSE CASTING #4155

SCH. 40 PVC PIPE RISER

SCH. 40 PVC SEWER PIPE

SANITARY SEWER CLEANOUT

- COMBINATION WYE, REDUCER AND 45° BEND

SCH. 40 PVC 45° BEND

CLEANOUT -

SCH. 40 PVC SEWER PIPE

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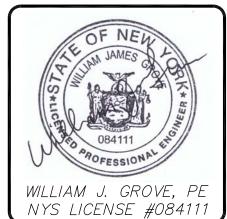
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