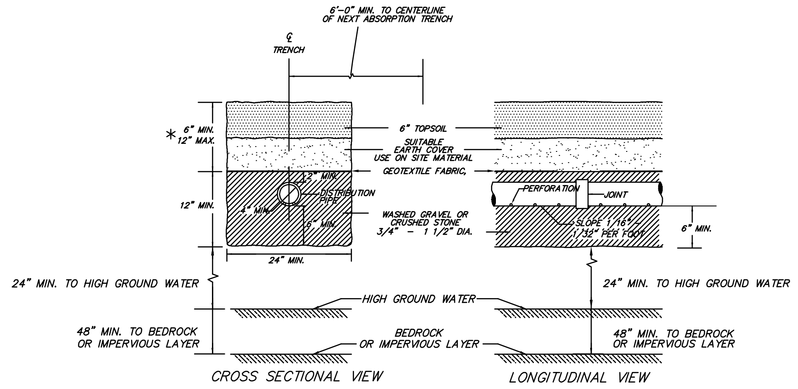
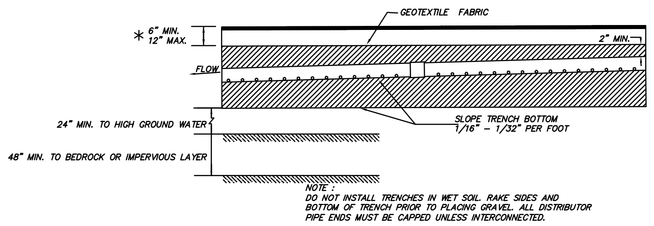
SYSTEM REQUIREMENTS
ABSORPTION FIELD WASTEWATER DISPOSAL
SYSTEM REQUIREMENTS

SEPTIC DESIGN:

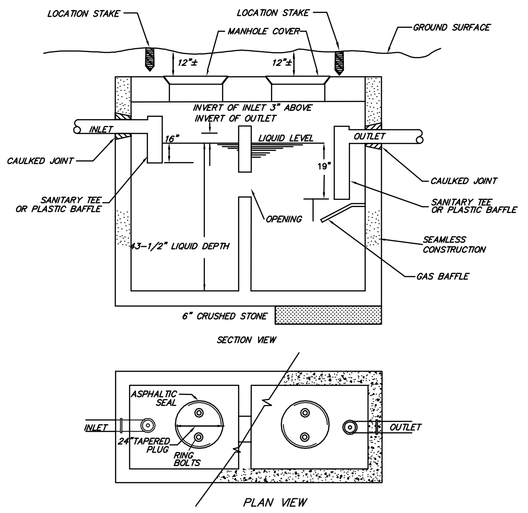
DESIGN PARAMETERS :	
NUMBER OF BEDROOMS	4 / 3
DESIGN FLOW RATE	130 GPD/BDRM
TOTAL DESIGN FLOW	520 / 390 GPD
CONVENTIONAL SYSTEMS	
DESIGN TRENCH WIDTH	2.0 FT.
PERCOLATION RATE	ACTUAL LESS THAN 1" IN 10 MIN.
DESIGN RATE *	1"/10 MINUTES
APPLICATION RATE	0.9 GPD/SF
REQ'D APPLICATION AREA	578/433 SF
DESIGN :	
TRENCH LENGTH	58 L.F.
NUMBER OF TRENCHES	5 / 4
TOTAL TRENCH LENGTH REQUIRED	289 / 217 L.F.
TOTAL TRENCH LENGTH PROVIDED	290 / 232 L.F.

* NOTE: ALL SEPTIC AREAS TO BE INSTALLED IN BROWN COARSE SAND BY DEEP TRENCH OR EXCAVATION OF TOP HEAVY SOIL.





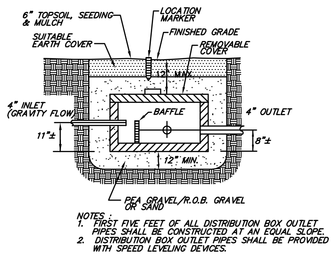
TYPICAL ABSORPTION TRENCH DETAIL
SCALE: NONE



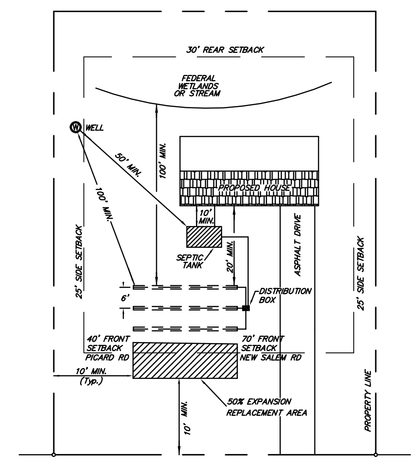
GUARDIAN 1,250 GAL. SEPTIC TANK FOR 3BR*
GUARDIAN 1,500 GAL. SEPTIC TANK FOR 4BR*
PRECAST CONCRETE SEPTIC TANK DETAIL

NO SCALE

*1,750 GALLON IF HOT TUB OR GARBAGE GRINDER IS INSTALLED
*2,000 GALLON IF BOTH ARE INSTALLED



DISTRIBUTION BOX DETAIL
SCALE: NONE



TYPICAL LOT LAYOUT
SCALE: NONE

WASTEWATER DISPOSAL SYSTEM COMPONENT NOTES :

INSTALLATION OF ALL SANITARY DISPOSAL SYSTEM COMPONENTS SHALL BE CONSISTENT IN EVERY RESPECT WITH THE STANDARDS SET FORTH BY THE NEW YORK STATE DEPARTMENT OF HEALTH. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW YORK STATE DEPARTMENT OF HEALTH WASTE TREATMENT HANDBOOK INDIVIDUAL HOUSEHOLD SYSTEMS AND ANY APPLICABLE TOWN STANDARDS.

WASTEWATER DISPOSAL SYSTEM PIPING

A. BUILDING TO SEPTIC TANK: 4" SOLID PIPE, TIGHT JOINTS, MINIMUM SLOPE –1/4"/FT. (CAST IRON OR PVC SCH 40.)
B. SEPTIC TANK TO DISTRIBUTION BOX : 4" SOLID PIPE, TIGHT JOINTS, MINIMUM SLOPE – 1/8"/FT. (PVC, SDR 35).
C. DISTRIBUTION BOX TO TILE FIELD LATERALS: 4" SOLID PIPE, TIGHT JOINTS, MINIMUM SLOPE – 1/8"/FT. (PVC, 2000 LB CRUSH).
D. TILE FIELD LATERALS: 4" PERFORATED PIPE, SLOPED 1/16" – 1/32" PER FOOT (PVC, HDPE) CAP ALL ENDS. COILED OR FLEXIBLE PERFORATED UNDERDRAIN PIPE WILL NOT BE ACCEPTABLE.
E. FINISHED FLOOR OF PROPOSED BUILDING IS TO BE ESTABLISHED AT AN ELEVATION WHICH WILL PROVIDE FOR GRAVITY CONNECTION.
F. INVERTS OF SYSTEM TO BE DETERMINED IN FIELD AFTER SETTING BUILDING FINISH FLOOR ELEVATION MAINTAIN MIN. PIPE SLOPE AS REQUIRED.

SEPTIC TANK

1. SEPTIC TANKS TO BE SEAMLESS 1,250 OR 1,500 GAL.* SET LEVEL ON 6" OF CRUSHED STONE. SEPTIC TANK TO HAVE SCH 40 PVC "T" AT INLET AND OUTLET. INLET 16" BELOW FLOW LINE, 8" ABOVE FLOW LINE, OUTLET 18" BELOW FLOW LINE, 5" ABOVE BELOW LINE, 1" AIR SPACE ABOVE "T"s. SEPTIC TANK SHALL BE DUAL COMPARTMENT MANUFACTURED BY GUARDIAN CONCRETE, INC., OR OTHER APPROVED EQUAL.

DISTRIBUTION BOX

1. DISTRIBUTION BOX TO BE A NEW YORK STATE DEPARTMENT OF HEALTH APPROVED PRECAST CONCRETE WITH REMOVABLE COVER FOR CLEANING ACCESS. BOX TO HAVE SUFFICIENT OUTLETS FOR LATERALS, AND TO BE CONSTRUCTED WITH AN INTERIOR BAFFLE. DISTRIBUTION BOX SHALL BE MANUFACTURED BY GUARDIAN CONCRETE, INC., OR OTHER APPROVED EQUAL.

ABSORPTION FIELD

1. GRADE ALL AREAS TO ELIMINATE LOW AREAS AND PROVIDE POSITIVE DRAINAGE AWAY FROM THE SYSTEM. DIVERT DRAINAGE FROM DRIVEWAYS, ROOF AND FOOTINGS DRAINS AWAY FROM THE ABSORPTION FIELD.
2. SURFACE OF THE TILE FIELD TO BE GRADED IN A MANNER SO AS TO SHED SURFACE RUNOFF. SURFACE OF THE TILE FIELD AREA SHALL BE GRASSED.
3. ALL SEPTIC AREAS TO BE INSTALLED IN BROWN COARSE SAND BY DEEP TRENCH OR EXCAVATION OF TOP HEAVY SOIL.

WASTEWATER DISPOSAL SYSTEM NOTES :

1. THERE SHALL BE NO CHANGE ON THESE PLANS IN ADVANCE OR DURING CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER.
2. NO HEAVY EQUIPMENT, VEHICULAR PARKING OR TRAFFIC SHALL BE ALLOWED WITHIN THE AREA OF THE PROPOSED SYSTEM.
3. VERIFY NO WATERCOURSES, SWAMPS, ROCK OUTCROPS OR FILLED AREAS EXIST WITHIN THE REQUIRED SEPARATIONS.
4. DO NOT THROW CHEMICAL/CLEANERS DOWN SINKS OR TOILETS. DWELLING TO HAVE WATER SAVING FIXTURES, INCLUDING BUT NOT LIMITED TO :
   - LESS THAN 2 GPM SHOWER HEADS
   - LOW WATER USE TOILETS
   - SINK FLOW RESTRICTIONS

   OBSERVE WATER CONSERVATION PRACTICES.
5. DO NOT DISCHARGE ROOF DRAINS INTO THE GROUND NEAR THE SYSTEM OR ALLOW DISCHARGE FROM ROOF DRAINS TO GO OVER THE SYSTEM. ROOF DRAINS SHALL NOT BE CONNECTED TO THE SEWAGE SYSTEM.
6. MAINTENANCE SCHEDULE : THE SEPTIC TANK SHALL BE PUMPED ONE TIME EVERY TWO YEARS MIN. IF SIGNIFICANT BUILDUP OF SOLIDS IS NOTED IN THE SEPTIC TANK, PUMPING SHALL BE DONE MORE FREQUENT, AND THE ENGINEER SHOULD BE NOTIFIED.
7. TURF SURFACE MUST BE MAINTAINED AT THE SYSTEM ABSORPTION FIELD.

CONSTRUCTION INSPECTION

1. CONSTRUCTION INSPECTION SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER AND THE ALBANY COUNTY HEALTH DEPARTMENT FOR THE FOLLOWING:
   - PRIOR TO BACKFILLING OF ALL SYSTEM COMPONENTS.
   - AFTER FINAL GRADING
2. CONTRACTOR TO PROVIDE AS-BUILT SKETCH TO THE ENGINEER.
3. CERTIFICATION BY A PROFESSIONAL ENGINEER SHALL BE PROVIDED TO THE ALBANY COUNTY HEALTH DEPARTMENT AND THE BUILDING DEPARTMENT UPON COMPLETION OF THE SYSTEM, AND PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

ALBANY COUNTY DEPARTMENT OF HEALTH

TOWN OF NEW SCOTLAND

OWNER/APPLICANT:
MICHAEL BIERNACKI
MJ BIERNACKI BUILDERS, LLC
32 SMITH LANE
VOORHEESVILLE, NY 12186

PORTION OF TAX MAP #:71.00-3-36.1

NO.	REVISION	BY	DATE
2.	TDE COMMENTS	JKL	4/26/13
1.	2ND SUBMISSION	JKL	2/26/13

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL

JOSEPH J. BIANCHINE, P.E.
N.Y.S. LICENSE NO. 50226

BIERNACKI SUBDIVISION
SEPTIC DETAILS
103 PICARD ROAD

TOWN OF NEW SCOTLAND | COUNTY OF ALBANY
STATE OF NEW YORK

ABD ENGINEERS & SURVEYORS
411 Union Street Schenectady, N.Y. 12305
518-377-0315 Fax.518-377-0379

DATE:	SCALE:	DWG.	SHEET OF
JANUARY 21, 2013	NONE	3471A-S7	5 5