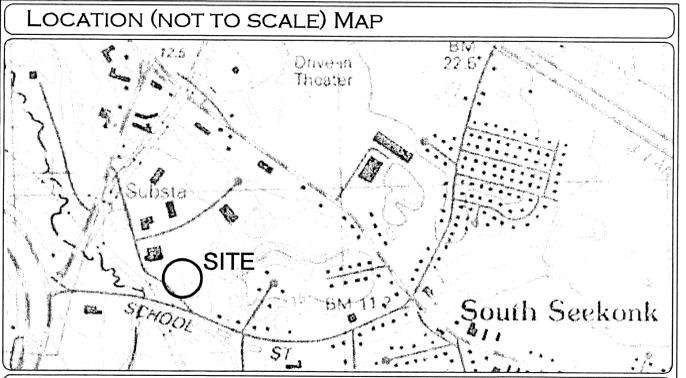
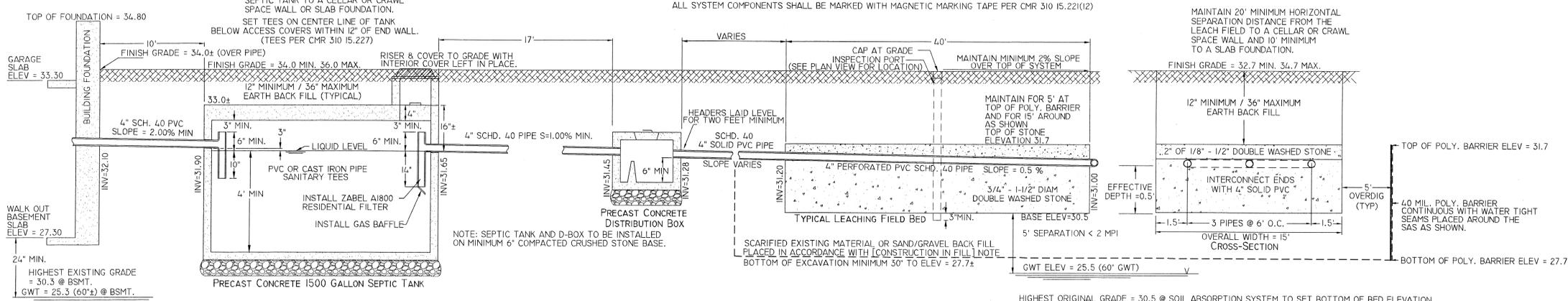


CROSS SECTION THROUGH SEPTIC SYSTEM
NOT TO SCALE

ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE PER CMR 310 15.22(12)



NOTES & SPECIFICATIONS

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF 310 CMR 15 (TITLE V) OF THE COMMONWEALTH OF MASSACHUSETTS AND THOSE OF THE TOWN BOARD OF HEALTH.

THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE ARRANGED BY THE CONTRACTOR WITH THE BOARD OF HEALTH & DESIGN ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

SEPTIC TANK AND DISTRIBUTION BOX SHALL BE STANDARD DUTY (H-10) OR HEAVY DUTY (H-20) IF LOCATED UNDER A DRIVEWAY.

ALL PIPING SHALL BE 4" DIA. SCHD. 40 NSF PVC, WITH ALL JOINTS SEALED WATERTIGHT.

ALL STONE SHALL BE DOUBLE WASHED AND FREE OF IRONS, CLAY OR FINES AND SHALL BE SATISFACTORY TO THE TOWN BOARD OF HEALTH.

THIS SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE DISPOSAL OR OTHER HIGH WATER USE UNITS.

THE PROPOSED SEPTIC SYSTEM IS NOT LOCATED WITHIN THE CONE OF INFLUENCE OF ANY MUNICIPAL WELL NOR ARE THERE ANY PRIVATE WELLS LOCATED WITHIN 100 FEET (RADIAL) OF THE PROPOSED SYSTEM.

EXCAVATE ALL TOP, SUB AND ANY OTHER SOILS ENCOUNTERED DOWN TO THE BOTTOM OF EXCAVATION (SEE CROSS SECTION) FOR A HORIZONTAL DISTANCE OF 5' ON ALL SIDES OF THE PROPOSED SYSTEM. BACK FILL TO TOP OF STONE ELEVATION WITH SELECT ON SITE OR IMPORTED SOIL MATERIAL CONSISTING OF CLEAN GRANULAR SAND, FREE OF ORGANIC MATTER OR OTHER DELETERIOUS SUBSTANCES AND MEETING THE SIEVE SIZE REQUIREMENTS OF 310 CMR 15.255(3) & (5) [CONSTRUCTION IN FILL].

ELEVATIONS SHOWN BASED ON NAVD 88 DATUM (REFERENCE BENCHMARK PID 8489 DISK M6BU).

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE CONTINUATION OF CONSTRUCTION.

WATER TABLE FLUCTUATES ANNUALLY, NO WARRANTY OF A DRY BASEMENT IS EXPRESSED OR IMPLIED.

SITE SHOWN IS NOT LOCATED IN A FLOOD HAZARD ZONE AS SHOWN ON FIRM PANEL 25005C0212F DATED JULY 7, 2009.

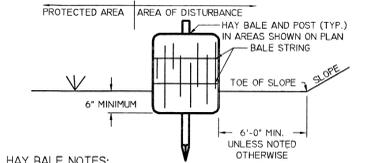
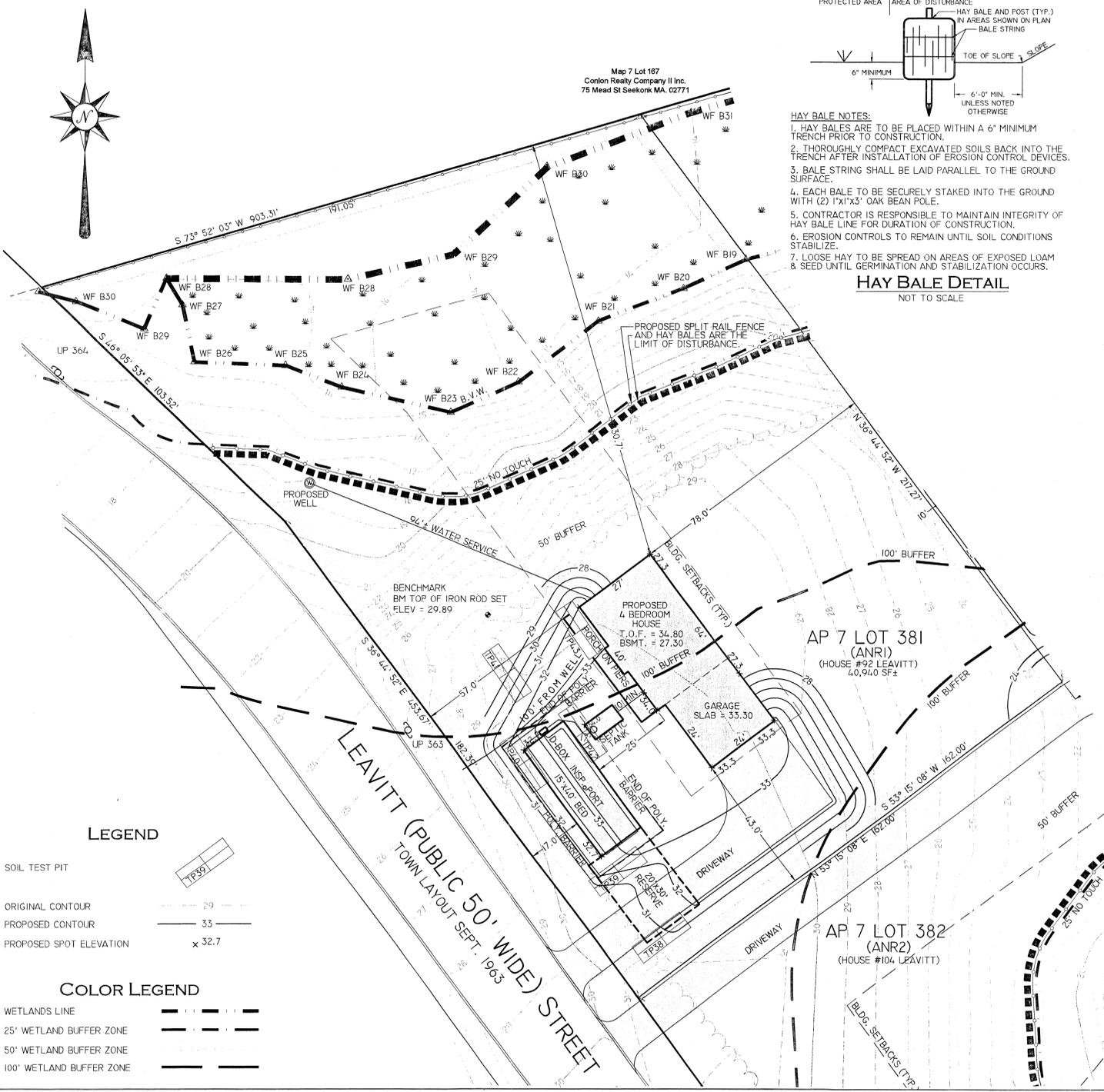
THE LOT DOES NOT LIE IN AN OVERLAY DISTRICT FOR GROUNDWATER AQUIFER PROTECTION.

MAINTAIN 15' MINIMUM FROM THE WATER SERVICE TO ALL SEPTIC SYSTEM COMPONENTS AND RESERVE AREAS

HOUSE DIMENSIONS, ELEVATION AND LOCATION ARE APPROXIMATE AND SUBJECT TO CHANGE. CONTRACTOR TO VERIFY PRIOR TO CONSTRUCTION.

THE LOT LIES IN A R-3 ZONING DISTRICT.
FRONT YARD SETBACK: 50'
SIDE YARD SETBACK: 35' + 5'/STORY = 40' (2 STORY)
REAR YARD SETBACK: 70'

I CERTIFY THAT THE PROPOSED WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT. NO WATER SERVICE IN TO TOWN WATER IS PROPOSED AT THIS TIME. THE HOUSE WILL BE SERVICED BY A PROPOSED WELL AS SHOWN.



- HAY BALE NOTES:
- HAY BALES ARE TO BE PLACED WITHIN A 6" MINIMUM TRENCH PRIOR TO CONSTRUCTION.
 - THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO THE TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICES.
 - BALE STRING SHALL BE LAID PARALLEL TO THE GROUND SURFACE.
 - EACH BALE TO BE SECURELY STAKED INTO THE GROUND WITH (2) 1"x1"x3" OAK BEAN POLE.
 - CONTRACTOR IS RESPONSIBLE TO MAINTAIN INTEGRITY OF HAY BALE LINE FOR DURATION OF CONSTRUCTION.
 - EROSION CONTROLS TO REMAIN UNTIL SOIL CONDITIONS STABILIZE.
 - LOOSE HAY TO BE SPREAD ON AREAS OF EXPOSED LOAM & SEED UNTIL GERMINATION AND STABILIZATION OCCURS.

Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal
Massachusetts City or Town: SEEKONK, MA

CLIENT: STEVEN NAJAS DATE: 4-29-2010 STREET: 167 SCHOOL STREET
ADDRESS: 111 MILES AVENUE TOWN: SEEKONK, MA 02771
EAST PROVIDENCE, RI 02914 WEATHER: MAP/PLOT: A.P. 7 LOT 40
PHONE #: 1-401-641-1241 60" ± F. SUNNY REPAIR: NEW: [X] SITE SKETCH: (SEE SEPTIC PLAN)

PERFORMED BY: MICHAEL S. FARIA R.I.P.E. MA SE708 VEGETATION: FARM
LAND USE: RESIDENTIAL
WITNESSED BY: BETH HALLAL DEPTH TO BEDROCK: NONE OBSERVED
EXCAVATION CO.: STEVEN BABIT SURFACE STONES: NONE SLOPE: 0.2% ±

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil Mottling (inches)	Other (Structure, Stones, Consistency, % Gravel)
TP40	0-8	Ap	SANDY LOAM	10YR3/1		FRIABLE
	8-22	B	LOAMY SAND	10YR5/8		FRIABLE
	22-78	C1	MEDIUM COARSE SAND	2.5Y6&7/2	78" 7.5YR/8	LOOSE STRATIFIED
TP41	78-120	C2	VERY FINE SAND	2.5Y7/1		FRIABLE
	0-8	Ap	SANDY LOAM	10YR3/1		FRIABLE
	8-16	B	LOAMY SAND	10YR5/8		FRIABLE
TP42	16-84	C1	MEDIUM COARSE SAND	2.5Y6&7/2	66" 7.5YR/8	LOOSE STRATIFIED
	84-120	C2	VERY FINE SAND	2.5Y7/1		FRIABLE
	0-10	Ap	SANDY LOAM	10YR3/1		FRIABLE
TP43	10-16	B	LOAMY SAND	10YR5/8		FRIABLE
	16-78	C1	MEDIUM COARSE SAND	2.5Y6&7/2	72" 7.5YR/8	LOOSE STRATIFIED
	78-120	C2	VERY FINE SAND	2.5Y7/1		FRIABLE
TP38	0-6	Ap	SANDY LOAM	10YR3/1		FRIABLE
	6-16	B	LOAMY SAND	10YR5/8		FRIABLE
	16-78	C1	MEDIUM COARSE SAND	2.5Y6&7/2	60" 7.5YR/8	LOOSE STRATIFIED
TP39	78-120	C2	VERY FINE SAND	2.5Y7/1		FRIABLE
	0-8	Ap	SANDY LOAM	10YR3/1		FRIABLE
	8-16	B	LOAMY SAND	10YR5/8		FRIABLE
TP39	16-120	C	MEDIUM COARSE SAND	2.5Y6&7/2	66" 7.5YR/8	LOOSE STRATIFIED
	0-8	Ap	SANDY LOAM	10YR3/1		FRIABLE
	8-16	B	LOAMY SAND	10YR5/8		FRIABLE
TP39	16-84	C1	MEDIUM COARSE SAND	2.5Y6&7/2	60" 7.5YR/8	LOOSE STRATIFIED
	84-120	C2	VERY FINE SAND	2.5Y7/1		FRIABLE

DISTANCES FROM (ft.) Hole # [TP40] [TP41] [TP42] [TP43] [TP38] [TP39]

APPROXIMATE (VERIFY)

Open Water Body	>200	>200	>200	>200	>200	>200
Possible Wet Area	>100	>100	>100	>100	>100	>100
Drinking Water Well	>100	>100	>100	>100	>100	>100
Drainage	>50	>50	>50	>50	>50	>50
Property Line	>10	>10	>10	>10	>10	>10
Other (specify)						

DEPTH TO GROUND WATER: (in.)

Standing Water in the Hole	-	-	-	-	-	-
Weeping from Pit Face	-	-	-	-	-	-
Est. High Ground Water	78	66	72	60	66	60

ASSESSMENT OF DEEP HOLE:

SUITABLE	X	X	X	X	X	X
UNSATURABLE						

MOTTLING Abundance

f: few	1: fine	d: distinct
c: common	2: medium	p: prominent
m: many	3: coarse	

PERCOLATION TEST

Hole #	TP40	TP43	TP39
Depth of Perc. (inches)	36	36	36
Start/Pre-Soak	9:56	10:37	10:34
Time at 12"			
Time at 6"	24 GAL/24	GAL/24	GAL
Time at 6" (Min)	<15M	<15M	<15M
Rate (Min/Inch)	<2	<2	<2

ADDITIONAL TESTING NEEDED: NO COMMENTS

(DEP CERTIFIED SOIL EVALUATOR) PRINTED: MICHAEL S. FARIA R.I.P.E. MA SE708. SIGNED: I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSIDERING THE REQUIRED TRAINING, EXPERISE AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THIS SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE TO 310 CMR 15.017.

Page ___ of ___

SEPTIC SYSTEM DESIGN AND NOI PLAN

"LEAVITT STREET"
#92 LEAVITT STREET, SEEKONK, MASSACHUSETTS 02769
ASSESSORS MAP 7, LOT 381, (ANR-1)

PREPARED FOR: STEVE NAJAS (PETRA BUILDING CORP.)
#111 MILES AVENUE, EAST PROVIDENCE, RI 02914

JOB # 09-117-ANRI SCALE: 1" = 20' DESIGNED BY: MSF DATE: FEBRUARY 17, 2012

REVISID:

PROFESSIONAL SEAL

INSITE ENGINEERING SERVICES, LLC

PROFESSIONAL ENGINEERS AND LAND SURVEYORS
INSITE PROFESSIONAL COMPLEX, SUITE 1
1539 FALL RIVER AVENUE
SEEKONK, MA 02771
PHONE: (508) 336-4500
FAX: (508) 336-4588

SHEET 1 OF 1