

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 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 AN 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 TIE IN TO TOWN WATER IS PROPOSED AT THIS TIME. THE HOUSE WILL BE SERVICED BY A PROPOSED WELL AS SHOWN.

WETLANDS DELINEATION BY ECOSYSTEM SOLUTIONS INC.

OWNERS: NAJAS REALTY LLC, 111 MILES AVENUE, EAST PROVIDENCE R.I. 02916

TITLE REFERENCE: DEED BOOK 18852 PAGE 79

THE SPLIT RAIL FENCE WILL SERVE AS THE LIMIT OF LAWN AND FUTURE YARD ACTIVITIES AND SHALL BE PERMANENTLY MAINTAINED IN GOOD CONDITION.

THE 25-FOOT BUFFER ZONE DELINEATES THE LIMITS OF DISTURBANCE AND ALL FUTURE ACTIVITIES. THE 50-FOOT WETLAND BUFFER DELINEATES THE LIMITS OF ALL STRUCTURES AS STATED WITHIN THE TOWN OF SEEKONK CONSERVATION COMMISSION REGULATIONS AMENDED MARCH, 2003.

DESIGN CALCULATIONS

AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY)

PROPOSED 4 BEDROOM DWELLING @ 110 GPD PER BEDROOM = 440 GPD

SEPTIC TANK SIZING (GALLONS)

200% AVERAGE DAILY FLOW = 2 (440) = 880 GALLONS

4 BEDROOM HOME REQUIRES 1500 GALLON TANK (MINIMUM).

DESIGN SOIL TYPE AND PERCOLATION RATE

SOIL CLASS 1 (SAND)

PERC RATE IN TP1 WAS < 3 MPI

PERC RATE IN TP3 WAS < 2 MPI

LEACHING AREA FOR 5 MPI REQUIRED

REQUIRED MINIMUM LEACHING AREA

REQUIRED AREA = 440 GPD / 0.74 GPD / SF = 595 SF MINIMUM

LEACHING FIELD BED AREA: 14' x 43' = 602 SF

RESERVE AREA: 14' x 43' = 602 SF

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: **1-23-2012** STREET: **167 SCHOOL STREET** SITE: **INSITE JOB# 09-117**

ADDRESS: **111 MILES AVENUE** TOWN: **SEEKONK, MA 02771**

WEATHER: **30° F SUNNY** REPAIR: **NEW: [X]**

PHONE #: **1-401-641-1241**

PERFORMED BY: **MICHAEL S. FARIA R.I.P.E., MA SE708** SITE SKETCH: (SEE SEPTIC PLAN)

WITNESSED BY: **STEVEN BARIT** LAND USE: **RESIDENTIAL**

EXCAVATION CO.: **NONE** SURFACE STONES: **NONE** VEGETATION: **FARM**

DEPTH TO BEDROCK: **NONE OBSERVED** SLOPE: **10% ±**

Deep Hole #	Depth from surface (inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (munsell)	Soil (inches) (Abundance/Consistency)	Other (Structure, Stones, Consistency, % Gravel)
TP1	0-24	Ap	SANDY LOAM	10YR5/1	10YR5/6	FRIABLE
	24-36	B	LOAMY SAND	2.5Y6&7/2	36° 7.5YR5/6	STRATIFIED, FRIABLE AND LOOSE
	36-120	C	SAND	10YR3/1		FRIABLE
TP2	0-24	Ap	SANDY LOAM	10YR5/8	10YR3/1	FRIABLE
	24-36	B	LOAMY SAND	2.5Y6&7/2	36° 7.5YR5/6	STRATIFIED, FRIABLE AND LOOSE
	36-120	C	SAND	10YR3/1		FRIABLE
TP3	0-24	Ap	SANDY LOAM	10YR5/8	10YR3/1	FRIABLE
	24-36	B	LOAMY SAND	2.5Y6&7/2	36° 7.5YR5/6	STRATIFIED, FRIABLE AND LOOSE
	36-120	C	SAND	10YR3/1		FRIABLE
TP4	0-24	Ap	SANDY LOAM	10YR5/8	10YR3/1	FRIABLE
	24-36	B	LOAMY SAND	2.5Y6&7/2	36° 7.5YR5/6	STRATIFIED, FRIABLE AND LOOSE
	36-120	C	SAND	10YR3/1		FRIABLE

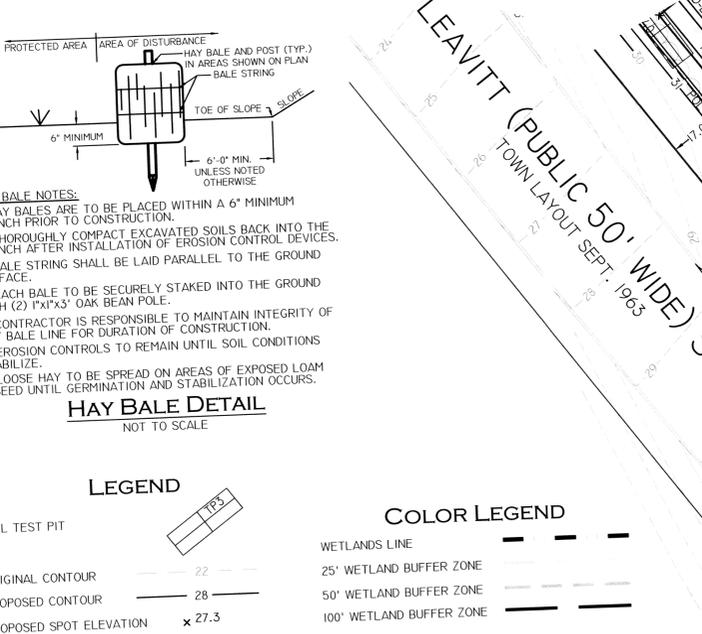
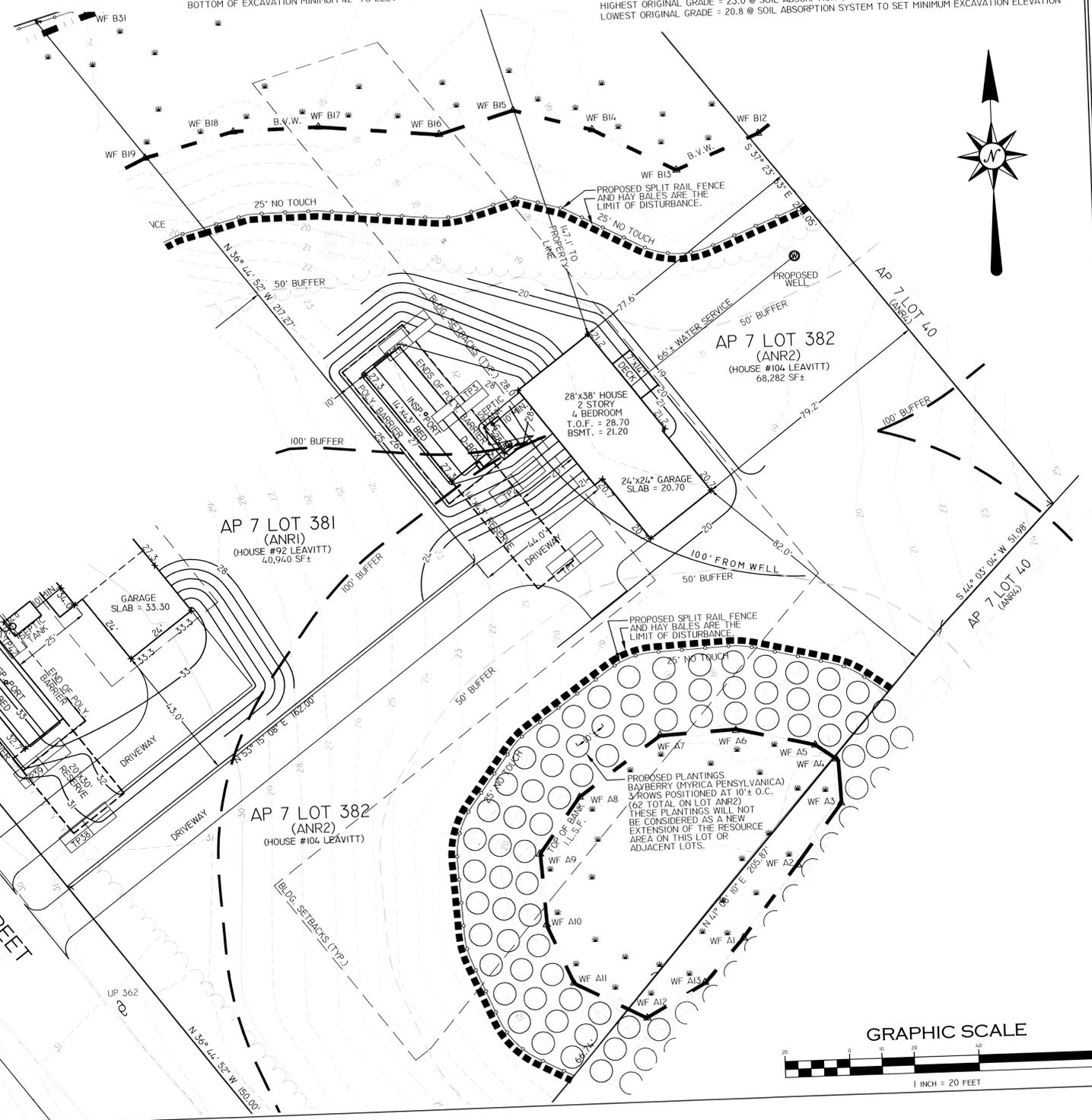
MOTTLING:	Abundance	Size	Contrast
f:	few	1: fine	f: faint
c:	common	2: medium	d: distinct
m:	many	3: coarse	p: prominent

Hole #	TP1	TP3
Depth of Perc (inches)	48	48
StarPre-Soak	11:14	11:16
Time at 12"	11:29	11:31
Time at 9"	11:35	11:32
Time at 6"	11:42	11:33
Time (P6") (Min)	7	1
Rate (Min/Inch)	< 3	< 2

ADDITIONAL TESTING NEEDED: NO

COMMENTS: NONE

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SEPTIC SYSTEM DESIGN AND NOI PLAN

"LEAVITT STREET"

#104 LEAVITT STREET, SEEKONK, MASSACHUSETTS 02769
ASSESSORS MAP 7, LOT 382, (ANR 2)

PREPARED FOR: **STEVE NAJAS (PETRA BUILDING CORP.)**
#111 MILES AVENUE, SEEKONK, MA 02771

JOB # **09-117-ANR2** SCALE: **1" = 20'** DESIGNED BY: **MSF** DATE: **FEBRUARY 17, 2012**

REVISED: **APRIL 13, 2012 (NOI ONLY, ADDED PLANTINGS)**

PROFESSIONAL ENGINEERS AND LAND SURVEYORS
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SHEET **1** OF **1**