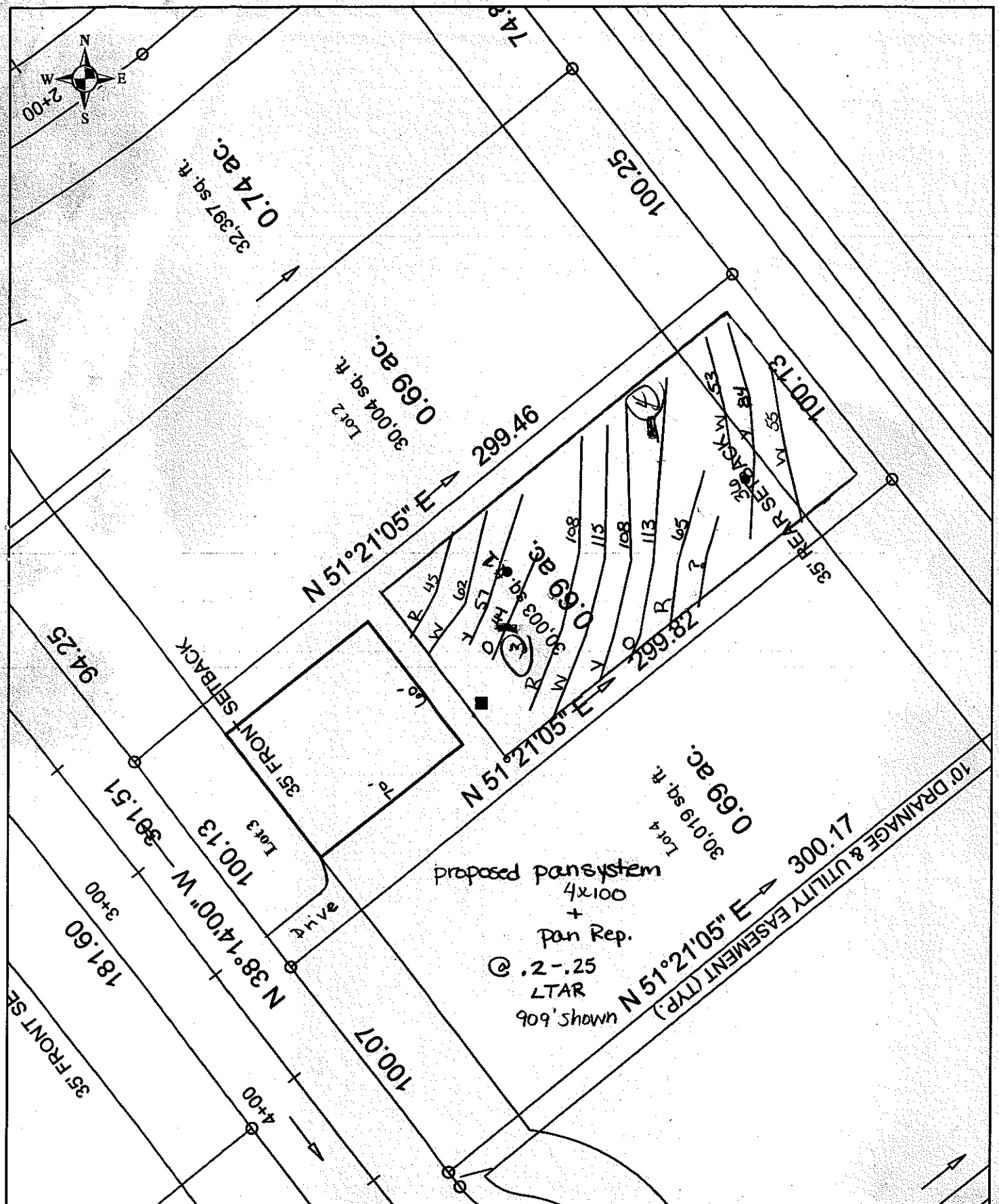


Scale: 1 inch equals 50 feet	S&ME	Rocky Ridge - Lot 3	FIGURE
Drawn by: JBP		Scaled, Detailed Site Plan	1
Reviewed by: PGP		Iredell County, NC	
Date: January, 2006	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	S&ME Project #1588-05-081	

...F ENVIRONMENT AND NATURAL RESOURCES
...ENVIRONMENTAL HEALTH
...WASTEWATER SECTION

Sheet ___ of ___
PROPERTY ID #: _____
COUNTY: _____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Rocky Ridge — APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: House — PROPOSED DESIGN FLOW (.1949): 480 — PROPERTY SIZE: _____
LOCATION OF SITE: Lot 3 — PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 1-3%	0-5	wsbk scl	SS SP Fr	Lt. Br				.3 to 50"
		5-31	msbk c	SS SP Fr	R				
		31-50	wsbk cl	SS SP Fr	R .Few sap incl.				
2	L 4-6%	0-16	wk SBK scl	FR SS/SP	Br				.2-.25 to 43"
		16-43	Mo SBK C	FR SS/SP	Red; C Yel Br Root Channels				
3	2-7-07	0-5	gr brn SL	FR SS SP					.225-.25
		5-53	sbk/MSBK Red C	FR SP SP common gray brown mottles, few relic mottles 26%					
4	6% L	0-7	mgr brn SL	FR SS SP					.25
		7-36	MSBK Red C	FR SP SP	few common gray brown mottles				
		36-54	MSBK Red C	FR SS SP	common in SP				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____

Lot 3 Rocky Ridge Farms Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	Crawl Space
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.225
Primary System Type	**LP PPBPS**
No. Lines	4 (See Table)
Total Linear Feet	360
Trench Width	2' min.
Trench Spacing	8' min.
Pump Required	Yes
Distribution Device	Gate Valve Box w/ LPP Distribution
Maintenance Agreement Required	Yes
Length and Diameter of Supply Pipe	100' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	40 gpm
Elevation head	Approx. 7.4'
Pressure head	3.0'
Friction head	3.3'
20% Contingency	2.7
Total Head	16.4'
Pump Requirements	40 gpm @ 16.4' of head; use Goulds WE03L pump or equivelent with compatible electrical
Dosing Volume	288 gal -1.7 doses/day @ design flow*
Volume of water pumped per dose	Calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Pump Run per dose	approx. 7.2 min.
Check Valve	Yes
Siphon Break hole	Yes
Repair System	**LP PPBPS**
Total Linear Feet	465

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

Table 1: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)	Rod Reading Elev. (Ft.)	Panels	Holes	Hole Spacing	Hole Size (In.)
1	Repair	Red	LPPPBPS	45	3.8				
2	Repair	White	LPPPBPS	62					
3	Repair	Yellow	LPPPBPS	57					
4	Repair	Orange	LPPPBPS	44					
5	System	Red	LPPPBPS	90 centerfed		20	20	1 per panel	5/32"
6	System	White	LPPPBPS	90 centerfed		20	20	1 per panel	5/32"
7	System	Yellow	LPPPBPS	90 centerfed		20	20	1 per panel	5/32"
8	System	Orange	LPPPBPS	90 centerfed		20	20	1 per panel	5/32"
9	Repair	Red	LPPPBPS	65					
10	Repair	White	LPPPBPS	53					
11	Repair	Yellow	LPPPBPS	84					
12	Repair	White	LPPPBPS	55	10.1	Total: 80	Total: 80 (1 in each panel turned up)		
				Total System: 360'					
				Total Repair: 465'					

Tank	Red	1500 gal (2 compartment)	5.2
Pump Tank	Red	1500 gal.	5.2
House	Blue		6.1