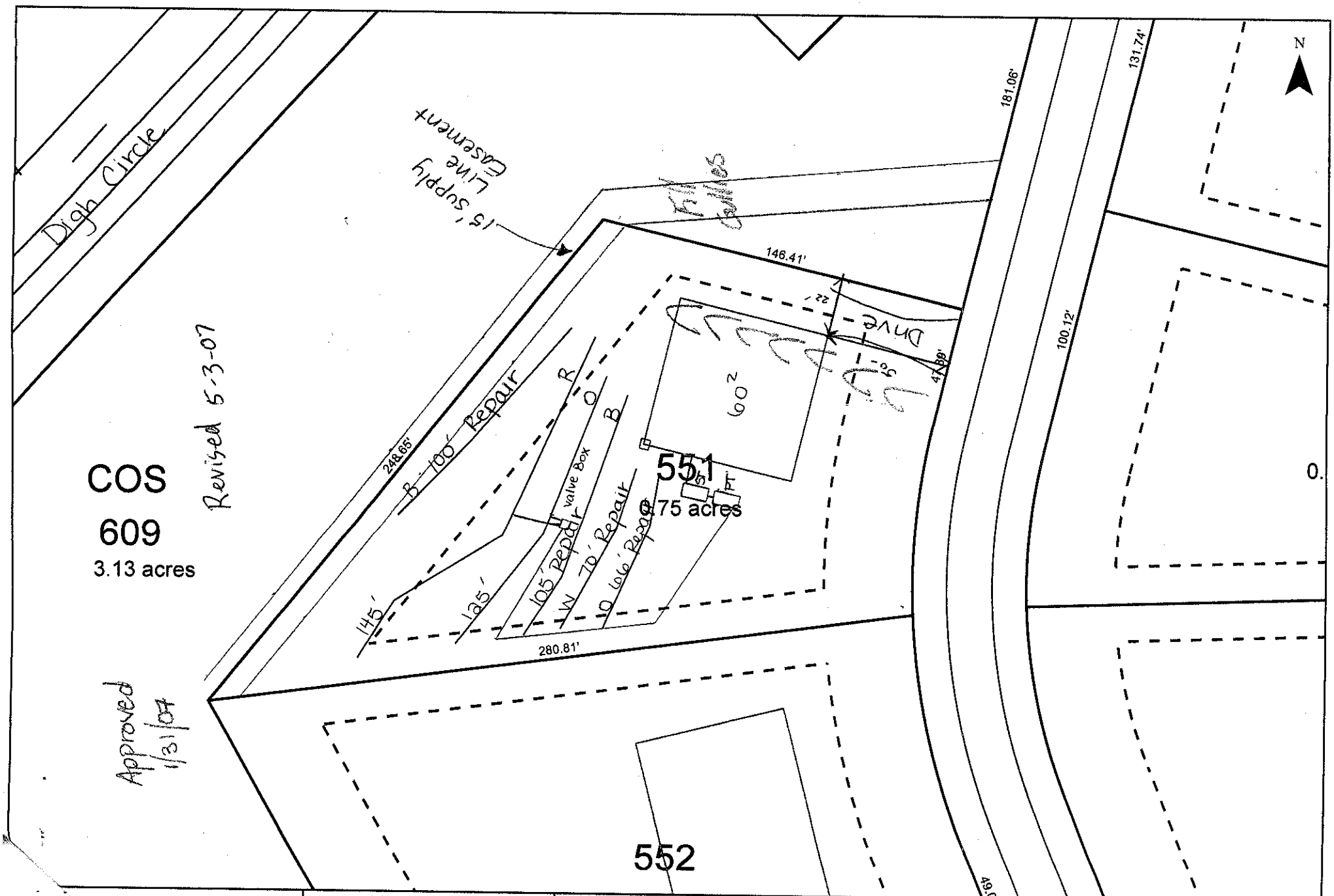


Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: JBP		Lot 551	1
Reviewed by: KS		Iredell, North Carolina	
Date: December, 2006	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	Job No. 1588-05-070	

Health Dept. copy

S&ME

To: Iredell County Environmental Health Department

From: Paul G. Penninger, LSS
Kathleen Saunders, LSSIT

RE: Farms Phase V – Crescent Resources, LLC – Lot 551 Fast Track

Date: January 5, 2007

Attached is the Fast Track information required to place Lot 551 Farms Phase 5 on your developer work list to review the septic system layouts. Please call when you are ready to review the lot and we will meet you on the site.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist the Iredell County Environmental Health Department (ICHD) with the site evaluation. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC rules. If the ICHD wishes to change tank locations, distribution devices, etc., this can be shown on the Improvement Permit.

All information and specifications were prepared in conjunction with the Fast Track Program for Iredell County and are for the use of Crescent Resources, LLC in acquiring permits under the Fast Track Program. All soil work has been approved by David Hinson of the Iredell County Health Department. It is ultimately the Iredell County Health Department's responsibility to verify all specifications before permitting and/or septic system installation.

Lot 551 The Farms Fast Track Septic System Information

Number of Bedrooms	4
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**LP PPBPS**
No. Lines	2 (See Table)
Total Linear Feet	270
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	175' of 2" SCH 40 PVC
Size of laterals	1 1/4" SCH 40 PVC
Flow Rate through the system	30.5 gpm
Elevation head	Approx. 14.0'
Pressure head	3.0'
Friction head	2.8'
20% Contingency	4.0'
Total Head	23.8'
Pump Requirements	30.5 gpm @ 23.8' of head; use Goulds WE05H pump or equivelent with compatible electrical
Maximum Dosing Volume	219.6 gal -2.2 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	No
Repair System	**LP PPBPS**
Total Linear Feet	341

***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	Blue	LPPPBPS	100	4.2				
2	System	Red	LPPPBPS	145 centerfed		33	33	1 per panel	5/32"
3	System	Orange	LPPPBPS	125 centerfed		28	28	1 per panel	5/32"
4	Repair	Blue	LPPPBPS	105					
5	Repair	White	LPPPBPS	70					
6	Repair	Orange	LPPPBPS	66	8.0				
						Total: 61	Total: 61 (1 in each panel turned up)		
				Total System: 270'					
				Total Repair: 341'					

Tank	Red	1500 gal (2 compartment)	12.2
Pump Tank	Red	1500 gal.	12.2
House	Blue		7.6

Note: Fill all minor gullies.

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

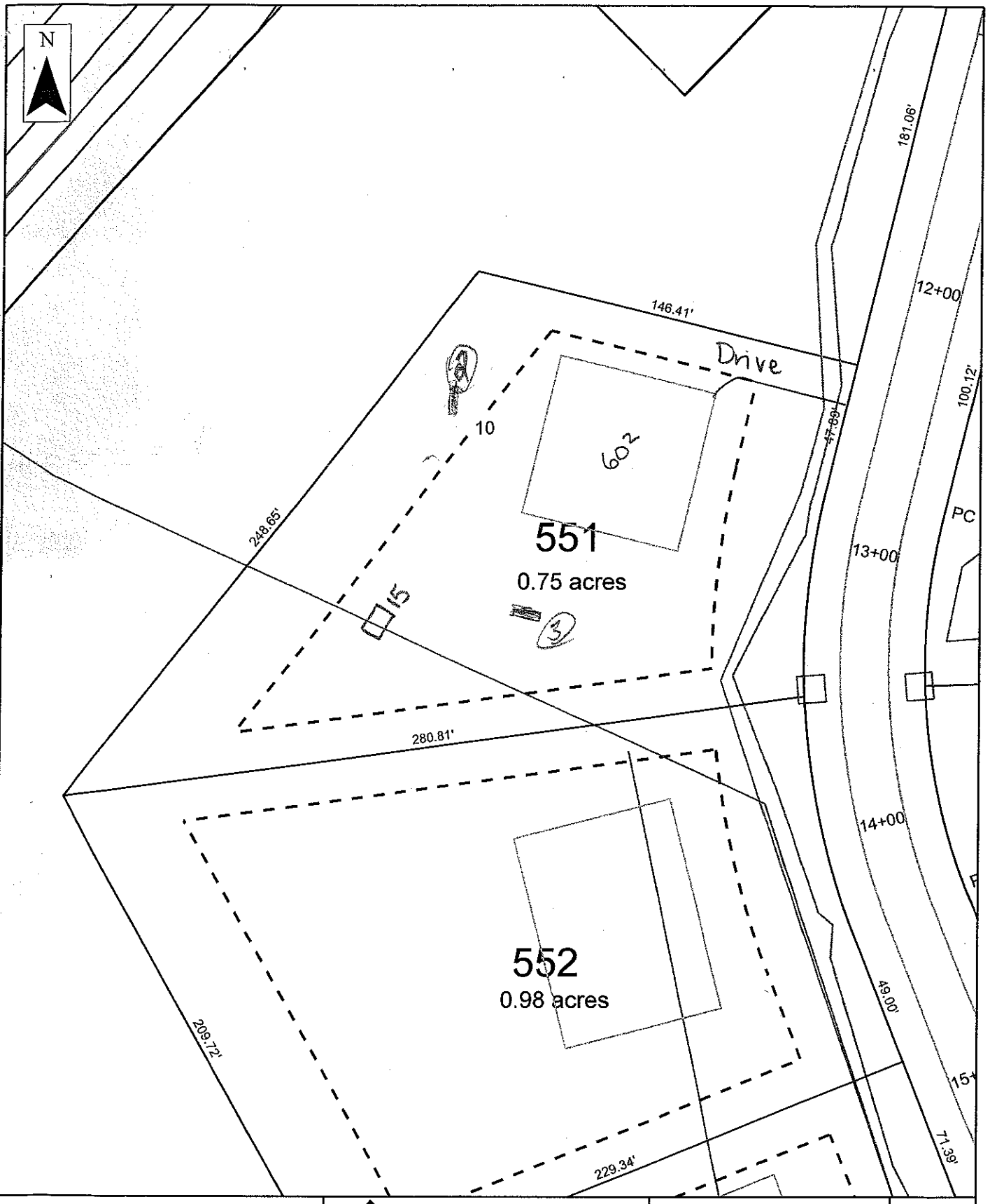
OWNER: Farms V — APPLICATION DATE _____
ADDRESS: _____ — DATE EVALUATED: _____
PROPOSED FACILITY: House — PROPOSED DESIGN FLOW (.1949): 480 — PROPERTY SIZE: _____
LOCATION OF SITE: Lot 551 — PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRIC CLASS	.1944 REDX HORIZ	
15 1	L	0-24	Mo SBK C	FR SS/SP	Red		C sap F Relic	yel Br	0.3
		24-55	Mo SBK CL	FR SS/SP	Red				
2	6%	0-3	Mo Sbk sl c	fr ss/sp	Yellowish Brown, Red mottles				.3
		3-30	Mod sbk sl c	fr ss/sp					
		30-48	Wk sbk sl c	fr ss/sp / common med prominent					
3		0-29	Wk sbk sl c	fr ss/sp					.3
		29-49	Wk mod sbk sl c	fr ss/sp					
4									

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: _____



Scale: 1 inch equals 50 feet	S&ME	The Farms - Phase V	FIGURE
Drawn by: SDM		Lot 551	1
Reviewed by: JP		Iredell, North Carolina	
Date: November 2006	ENVIRONMENTAL SERVICES • ENGINEERING • TESTING	Job No. 1588-05-070	