S&ME

June 5, 2014

Bonanza Development Company
816-G Brawley School Road
Mooresville, North Carolina 28117

Attention: Mr. Scott Needham

Reference: **Technical Assistance with Fast Track Septic Permitting**
Lot 15 The Villages at Isle of Pines Subdivision
Iredell County, North Carolina
S&ME, Inc. Project No. 1588-05-047A

Dear Mr. Needham:

S&ME, Inc. (S&ME) has provided technical assistance to obtain a possible Septic Improvement Permit from the Iredell County Health Department (ICHD) for the above referenced lot. The technical assistance was performed in general accordance with S&ME Proposal No. 43-1400508 dated June 3, 2014.

The S&ME assisted you in 2005 with obtaining a Septic Improvement Permit for the above referenced lot. This permit will expire soon and you requested that S&ME assist you with a Fast Track application so a new permit can be issued before the existing permit expires. We understand you placed the lot on the "individual list" at the ICHD but due to the current backlog want to transfer the lot to the Fast Track list.

Based on conversations with Mr. Brady Freeman and Mr. Adrian Pruett with the ICHD, the application will be accepted as an "Intermediate Relayout" and require a $195 county fee. We reviewed the general 2005 Fast Track system information with Mr. Pruett on June 4, 2014 and he stated this information was adequate for the new application.

You and others flagged the property lines, corners, house pads, and proposed septic lines for the application submittal as shown on the attached site plan. These were reviewed in the field by S&ME. Attached is the application package you submitted to S&ME which includes a record plat along with a site plan so the new permits can be issued as non-expiring permits. Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system.

S&ME appreciates the opportunity to provide these services to you. No additional soil work was provided for the application submittal. The ICHD may show any changes or modifications they want to the proposed system on the attached site plan. The ICHD must approve each lot and only the ICHD can issue Improvement Permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

S&ME, Inc.

Paul G. Penninger, L.S.S.
Licensed Soil Scientist

Rob Willcox, L.S.S.
Senior Project Manager

Attachments: Fast Track Package compiled by Bonanza Development.

Copy: ICHD

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Lot 15 Villages at Isle of Pines Fast Track Septic System Information

Number of Bedrooms	3
Basement or Crawl	crawl space
Design Flow (gpd)	360
LTAR (gpd/ft2)	0.3
Primary System Type	LP PPBPS
No. Lines	3 @ 70'
Total Ft. Line	210
Pump Required	yes
Distribution Device	valve box with LPP dist.
Maintenance Agreement Required	yes
Repair System Type	LP PPBPS
Total Ft. Line	approx. 270
Pump Required	yes
Elevations	
Upper Line	blue- 2'10"
Lower Line	yellow- 10'3"
Tank	16'2"
House Corner	Left Front- 10'10"
Reference Pt.	Chop on large white oak near upper red at rt. PL (3'8")

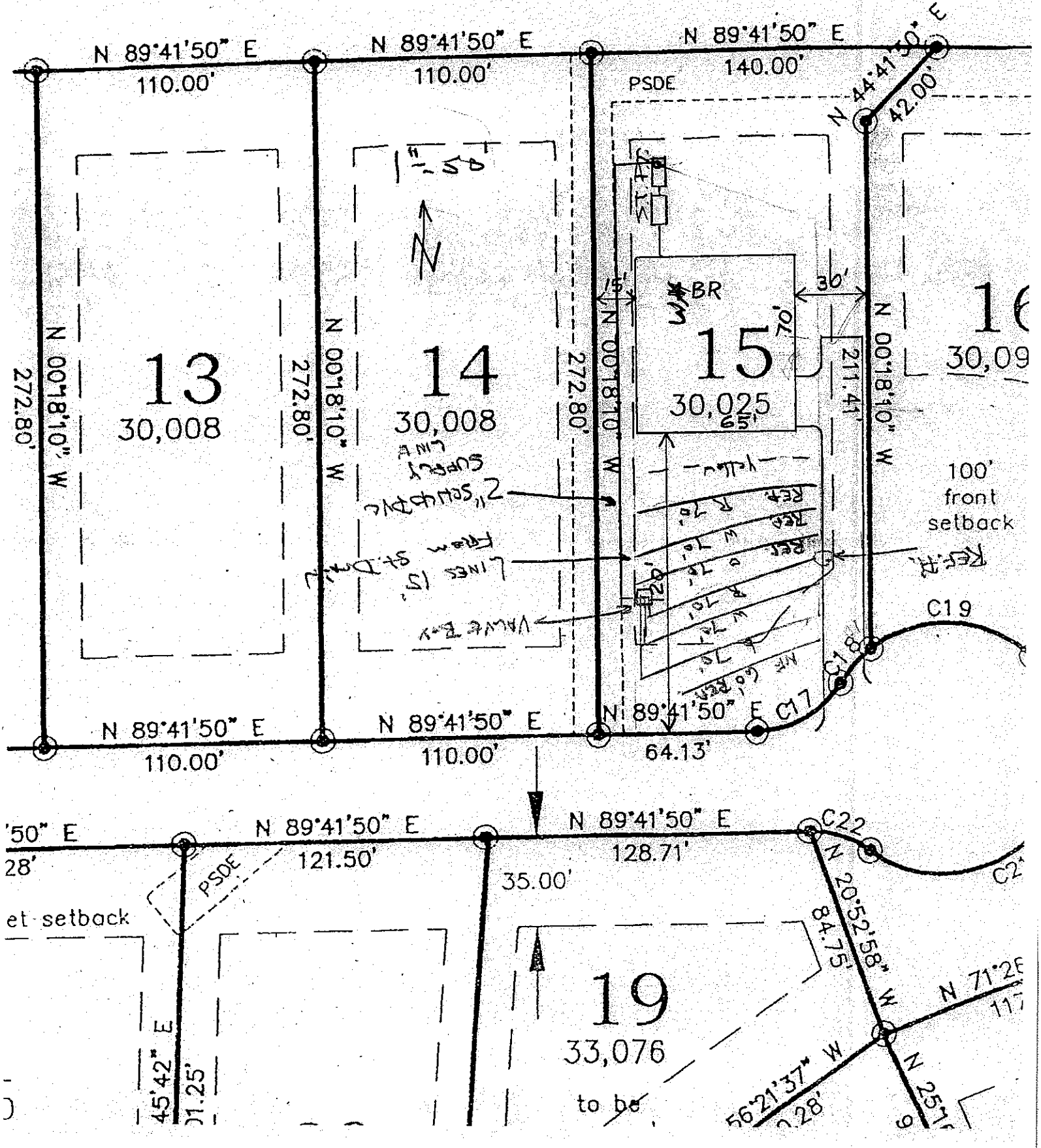
Notes lower yellow line too close to house and not used for repair - poss. move house back 20 ft. for 4 bdr.

LOT 15

SECTION
- SECTION
GUTTER SECTION

SCALE: 1" = 50'

Lot 27 is smc
Lot 28 is well lot, lo



DEPARTMENT OF ENVIRONMENT, HEALTH, 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: Village at Isl. of Pines APPLICANT: Ramanco Dev.
ADDRESS: _____ APPLICATION DATE: 3 DATE EVALUATED: 5-31-05
PROPOSED FACILITY: Houses PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: .05
LOCATION OF SITE: _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

Lot 15

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.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 to 2	0-12	br sl	fr ss/so	br red	56	f gravelly f INJ SAP		PS .3
		12-56	m sbk c-d	fr ss/so					
2	L ~1 to 2	0-12	br sl-sc	fr ss/st	br red mottled	57	f SAP 33		PS .3
		12-33	m sbk cl	fr s/p					
		33-51	w sbk cl	fr ss/st					
3	~10%	0-15	gr w sbk brn sl gravelly	fr sso					.3
		15-42	m sbk rc	fr sso SAP					
		42-55	w sbk gyc cl	fr ss/p common mi SAP					
4	~10%	0-12	gr brn sl/sc	gravelly fr sso					.3
		12-56	sbk red cl	fi fr sp ss/p SAP few medium mi SAP			>36"		

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

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