

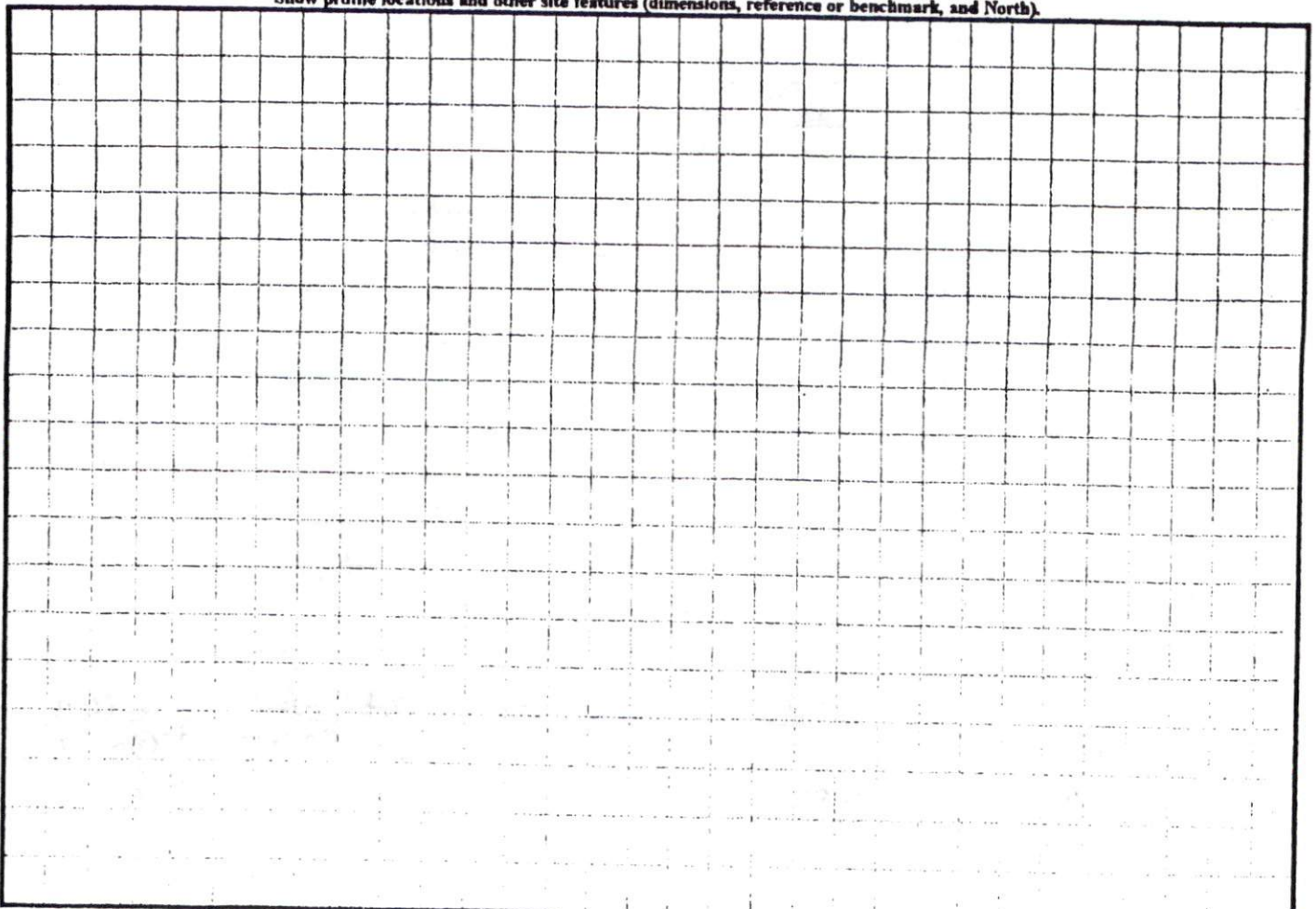
COMMENTS: _____

<u>LANDSCAPE POSITIONS</u>	<u>GROUP</u>	<u>TEXTURES</u>	<u>.1955 LTAR</u>	<u>CONSISTENCE MOIST</u>	<u>WET</u>
R-RIDGE	I	S-SAND	1.2 - 0.8	VFR-VERY FRIABLE	NS-NON-STICKY
S-SHOULDER SLOPE		LS-LOAMY SAND		FR-FRIABLE	SS-SLIGHTLY STICKY
L-LINEAR SLOPE	II	SL-SANDY LOAM	0.8 - 0.6	FI-FIRM	S-STICKY
FS-FOOT SLOPE		L-LOAM		VFI-VERY FIRM	VS-VERY STICKY
N-NOSE SLOPE	III	SI-SILT-	0.6 - 0.3	EFI-EXTREMELY FIRM	NP-NON-PLASTIC
H-HEAD SLOPE		SIL-SILT LOAM			SP-SLIGHTLY STICKY
CC-CONCLAVE SLOPE		CL-CLAY LOAM			P-PLASTIC
CV-CONVEX SLOPE		SCL-SANDY CLAY LOAM			VP-VERY PLASTIC
T-TERRACE	IV	SIC-SILTY CLAY	0.4 - 0.1		
FP-FLOOD PLAN		C-CLAY			
		SC-SANDY CLAY			

STRUCTURE
 SG-SINGLE GRAIN
 M-MASSIVE
 CR-CRUMB
 GR-GRANULAR
 SBK-SUBANGULAR BLOCKY
 ABK-ANGULAR BLOCKY
 PL-PLATY
 PR-PRISMATIC

MINERALOGY
 SLIGHTLY EXPANSIVE
 EXPANSIVE

Show profile locations and other site features (dimensions, reference or benchmark, and North).

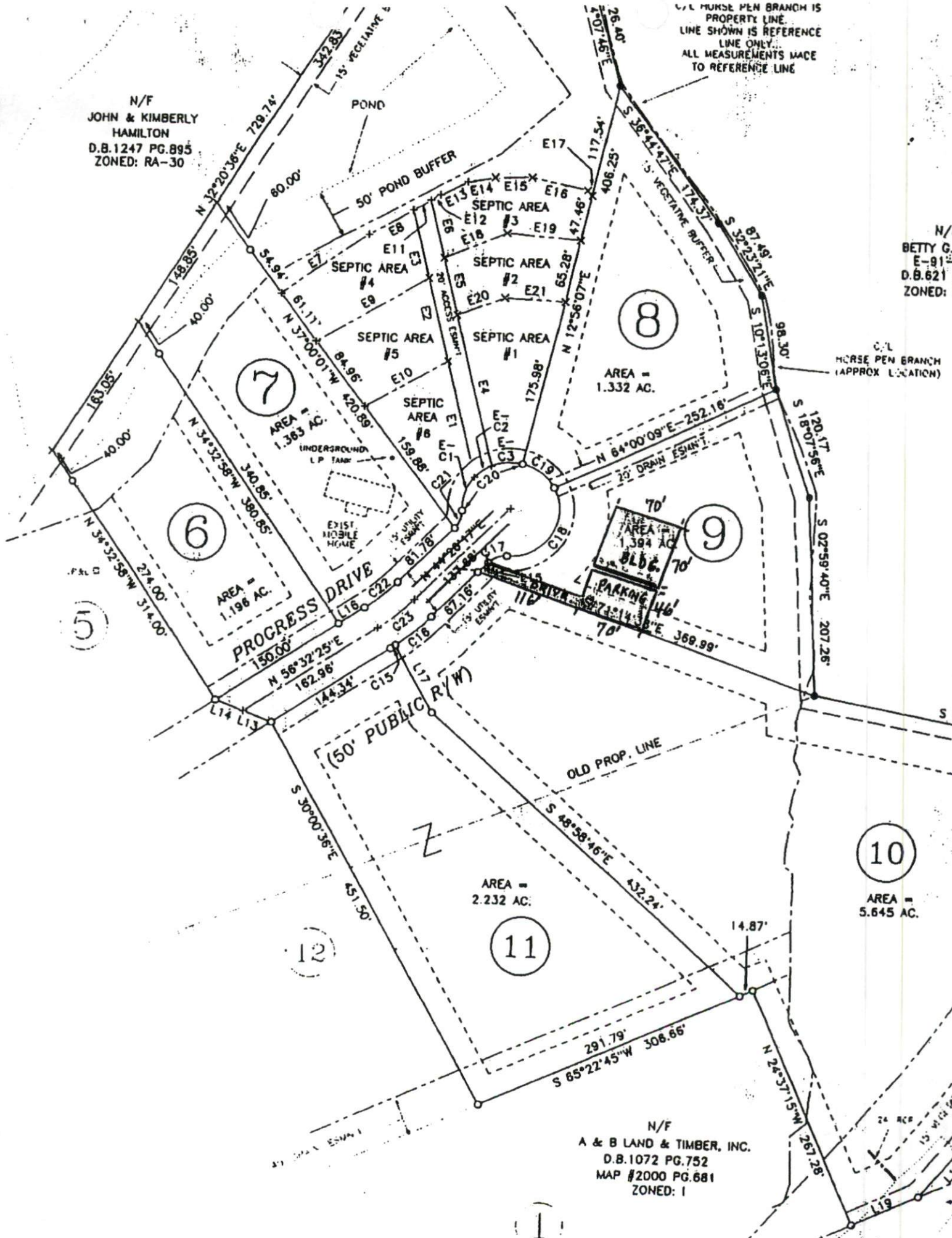


N/F
 JOHN & KIMBERLY
 HAMILTON
 D.B.1247 PG.895
 ZONED: RA-30

C/L HORSE PEN BRANCH IS
 PROPERTY LINE.
 LINE SHOWN IS REFERENCE
 LINE ONLY...
 ALL MEASUREMENTS MADE
 TO REFERENCE LINE

N/F
 BETTY G.
 E-912
 D.B.621
 ZONED: I

C/L
 HORSE PEN BRANCH
 (APPROX. LOCATION)



N/F
 A & B LAND & TIMBER, INC.
 D.B.1072 PG.752
 MAP #2000 PG.681
 ZONED: I

HAL JWEN & ASSOCIATES NC.

SOIL & ENVIRONMENTAL SCIENTISTS

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Lillington, NC 27546-0400
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7 February, 2008

Mr. Brian McSwain
Harnett County Environmental Health
307 West Cornelius Harnett Blvd.
Lillington, NC 27546

Reference: Duncan Industrial Park: Septic System Design
Lot 9: 1.39 Acres

Dear Mr. McSwain,

A site investigation was conducted for the above referenced property on January 30, 2008. The site is located on the eastern side of Progress Drive, Hectors Creek Township, Harnett County, North Carolina. The purpose of the investigation was to determine the ability of this lot to support a subsurface sewage waste disposal system and 100 % repair area for a typical 8 employee, 200 gal/day, one shift business. A foundation drain will not be possible. Gravity flow to 3 x 56" conventional drainlines is the proposed design for the initial septic system and pump to 3 x 56" conventional drainlines is the design for the repair system.

Attached is the septic system layout and supporting information for this lot. I trust that this report provides all the information that you require at this time. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,



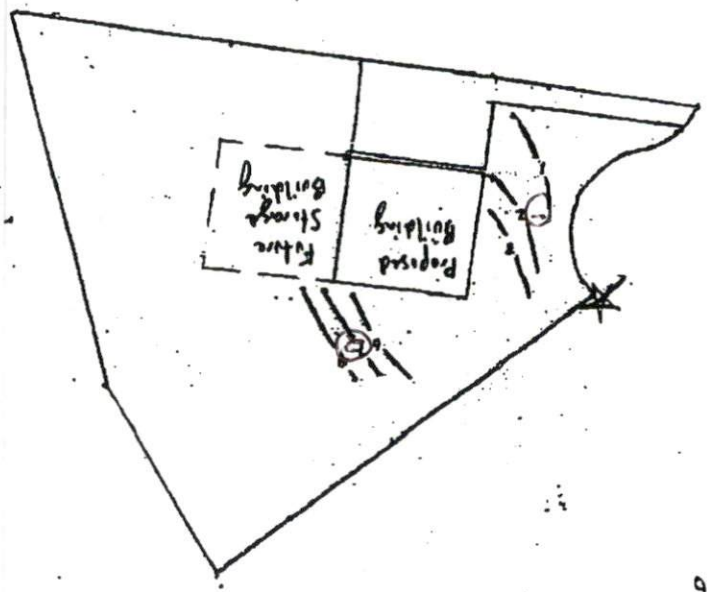
Tucker Williamson
Environmental Scientist

SEPTIC SYSTEM LAYOUT DESIGN: FIELD S1

Project/Site: Dynvun Industrial Park
 # Bedrooms: 200 gal/day
 House Footprint: 70 x 70
 Slope: _____
 Foundation Drain: YES (NO)

Lot #: 9
 Investigator: TW
 Date: 1/30/08

Scale: 1" = 100'



Line	Field	Line	System	Line	No. color	Length	Length
1	R	104	56				
2	M	76	56				
3	B	60	56				
4	Y	51					
5							
6	Y	63	56				
7	R	76	56				
8	M	83	56				
9							
10							
11							
12							
13							

PROPOSED SYSTEM:

Initial System L-6-L8
 LTAR: 0.4
 3 x 56' conventional drainlines
 installed on contour @ 18-24 in.

Repair System L1-L3
 LTAR: 0.4
 Pump to 3 x 56' conventional drainlines
 installed on contour @ 18-24 in.