The Point 1C Lot 15 Fast Track System Information

Olindo Mare, S&ME Job No. 1584-13-065

Number of Bedrooms	**5**
Basement or Crawl	**Basement w/ Plumbing**
Design Flow (gpd)	**600**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	7 (See Table)
Total Linear Feet	500 400 ft. existing - add 100 ft. in two lines
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	Yes
Distribution Device	Pressure Manifold + 1 drop box (see folllowing page for tap sizes)
Maintenance Agreement Required	No
Length and Diameter of Supply Pipe	~1400' of 3" SCH 40 PVC
Flow Rate through the system	34.6gpm
Elevation head	*Approx. 38'
Pressure head	2.0'
Friction head	Approx. 5.4'
20% Contingency	9.1'
Total Head	54.5'
Pump Requirements	35 gpm @ 54.5' of head ***To be designed by installer.**
Maximum Dosing Volume	300 gal - 2.0 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. 9 min.
Check Valve	Yes
Siphon Break hole	No
Repair System	**LP PPBPS**
Total Linear Feet	336' shown
Repair Loading Rate	0.3

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Table: Summary of Primary Nitrification Line Specifications

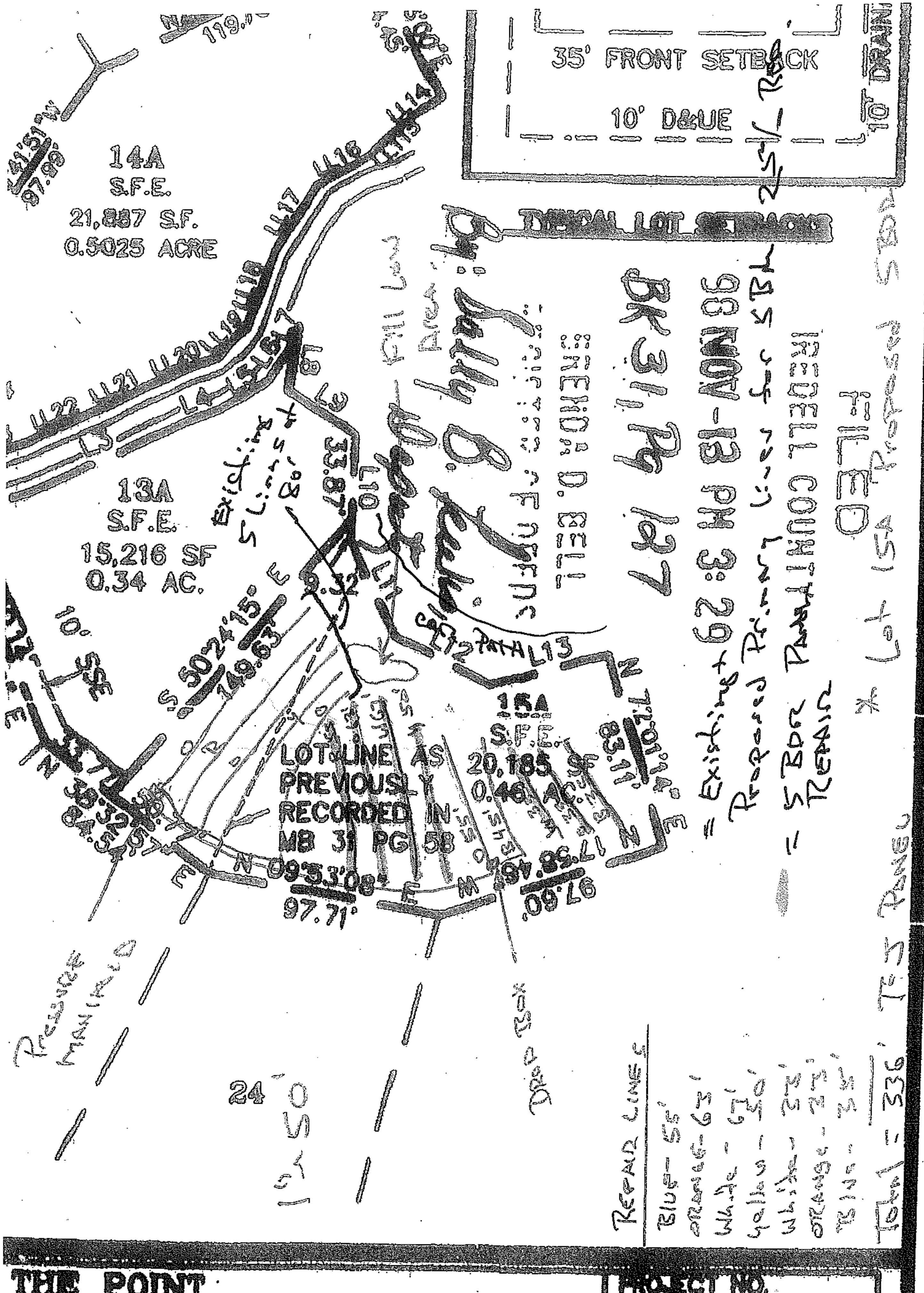
Line No.		Line Color	System Type	Line Length (Ft.)	Rod Reading (Ft.)
1	Existing	Orange	25% Reduction	80	4.3 (approx. 794' elev.)
2	Existing	White	25% Reduction	80	5
3	Existing	Red	25% Reduction	80	5.5
4	Existing	Blue	25% Reduction	80	6.3
5	Existing	White	25% Reduction	80	7.7
6	Expansion	Orange	25% Reduction	55	13.3
7	Expansion	Blue	25% Reduction	45	15.1
				Total System: 500'	
				Total Repair: 336'	

Tank	white	Existing 1500 gal (2 compartment)	*Elevation (ft)
Pump Tank	white	New 1500 gal. required	approx. 770
House		Existing House	

Manifold Information			
Lines 1-5		**Lines 6-7**	
Tap Size (In.)	1/2	Tap Size (In.)	1/2
Tap Material	SCH 80 PVC	Tap Material	SCH 40 PVC
No. Taps	5	No. Taps	1 plus drop box
Barrel Size (In.)	4	Barrel Size (In.)	4
Barrel Material	SCH 80 PVC	Barrel Material	SCH 80 PVC
Flow (gpm)/Tap	5.5	Flow (gpm)/Tap	7.11

NOTES:

*Approximate elevations taken from topo map only & must be verified by installer or surveyor at installation and final tank placement.


35' FRONT SETBACK
10' D&UE
10' DRAIN
TYPICAL LOT SETBACKS
14A
S.F.E.
21,887 S.F.
0.5025 ACRE
13A
S.F.E.
15,216 SF
0.34 AC.
15A
S.F.E.
20,185 SF
0.46 AC.
LOT LINE AS PREVIOUSLY RECORDED IN MB 31 PG 58
S 50°24'15" E
149.63'
N 09°53'08" E
97.71'
N 17°58'48" W
97.60'
N 72°01'14" E
83.11'
33.87'
L10
L12
L13
L11
L8
L9
10' SSE
24
Pressure Manifold
Drop Box
Fill Line
Existing 5 Lines
Existing
Proposed Primary Lines for 5 BR
5 BDR Repair
Lot 15A Proposed 5 BDR
9.32'
96 NOV 13 PM 3:29
IREDELL COUNTY
FILED
BK 31, Pg 127
Repair Lines
Blue - 55'
Orange - 63'
White - 61'
Yellow - 50'
White - 33'
Orange - 33'
Pink - 31'
Total = 336'
THE POINT
PROJECT NO.

S&ME, INC.
SITE/SOIL EVALUATION

Project No. 1594-13-044 **Phone No.** _____ **Date:** 6-24-13
Location Part 15/m **Pin** _____ **County:** _____ **Property Size** _____

Proposed Facility: Sch **Water Supply:** On-Site Well ☐ Community ☐ Public ☐ **Evaluation:** Auger Boring ☒ Pit ☐ Cut ☐

Described By: RC
Weather: Hot Sunny **Antecedent Moisture** Moist **Surface Water:** _____

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3 & 4	PROFILE
Landscape Position %	L mid	L mid	L mid	
Horizon Depth I	0-3	0-10	0-3	
Color Munsell	10YR 3/2	10YR 3/2	10YR 3/2	
Texture	sand	sand	sand	
Structure	weak sbk	weak sbk	weak sbk	
Consistence		very friable		
		sl sticky		
		sl plastic		
Boundary				
Horizon Depth II	3-28	10-48	3-12	
Color – Munsell	10YR 5/4	10YR 5/4	10YR 5/4	
Texture	sand	sandy loam	sand	
Mottles		common		
Structure	weak sbk	weak sbk	weak sbk	
Consistence	very friable	very friable	very friable	
		sl sticky		
		sl plastic		
Boundary				
Horizon Depth III	28-48		12-46	
Color – Munsell	10YR 6/6		10YR 6/6	
Texture	sand		sand	
Mottles	common		common	
Structure	weak sbk		weak sbk	
Consistence	very friable		very friable	
	sl sticky		sl sticky	
	sl plastic		sl plastic	
Boundary				
Horizon Depth IV			46-48+	
Color – Munsell			10YR 6/6	
Texture			sand	
Mottles				
Structure			weak sbk	
Consistence			very friable	
			sl sticky	
			sl plastic	
Boundary				
Soil Wetness				
Restrictive Horizon				
Saprolite				
LTAR	3	3	3-4	
Classification	LS	LS	LS	

LEGEND

LANDSCAPE POSITION

R	Ridge Interfluve
S	Shoulder
L	Linear Slope
FS	Foot Slope
N	Nose Slope
H	Head Slope
Cc	Concave Slope
Cv	Convex Slope
T	Terrace
P	Flood Plain

TEXTURE

s	sand
ls	loamy sand
sl	sandy loam
l	loam
si	silt
sil	silt loam
sicl	silty clay loam
cl	clay loam
scl	sandy clay loam
sc	sandy clay
sic	silty clay
c	clay

CONSISTENCE WET

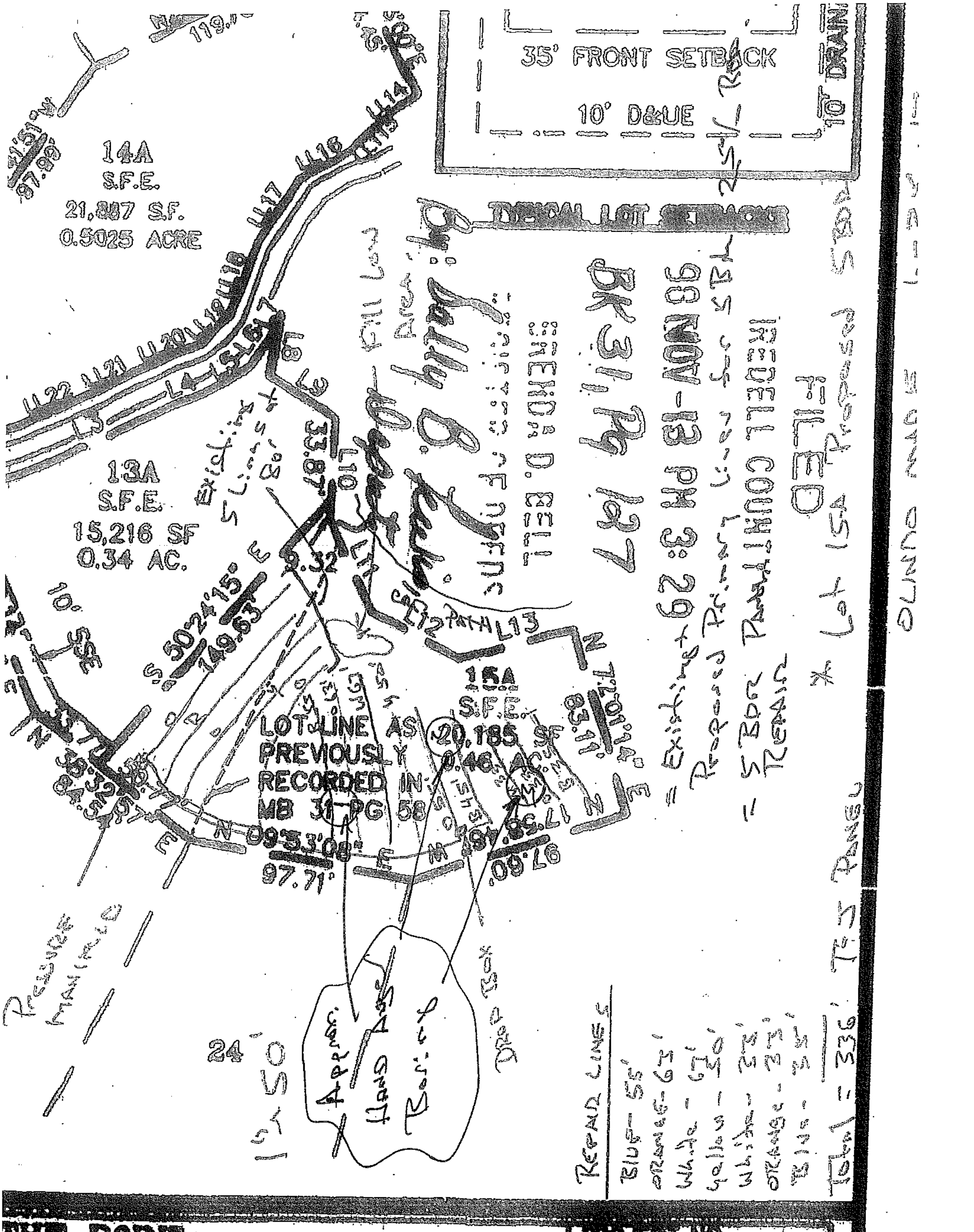
Ns	non-sticky
Ss	slightly sticky
S	sticky
Vs	very sticky
Np	non-plastic
Sp	slightly plastic
P	plastic
Vp	very plastic

MOIST

vfr	Very friable
fr	friable
fi	firm
vfi	Very firm

STRUCTURE

sg	single grain
m	massive
cr	crumb
gr	granular
sbk	subangular blocky
abk	angular blocky
pl	platy
pr	prismatic



THE POINT

PROJECT NO.