DENR/DEH

ON-SITE WASTEWATER SECTION

PIN # 4765-89-1406

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

Permit # 15790970

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

OWNER: Tony S. Fox, Sr.
ADDRESS: 1055 Lanning Drive China Grove, NC 28023
PROPOSED FACILITY: SF Modular PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: Hwy 64 E to River Hill Road to Property behind House at 444 River Hill Drive
WATER SUPPLY: • Private • X Public • Well • Spring • Other Lexington
EVALUATION METHOD: X Auger Boring • Pit • Cut

APPLICATION DATE 8/7/09
DATE EVALUATED 8-13-09
PROPERTY SIZE: 3.96 acres
PROPERTY RECORDED: ___
TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Linear 2-10% Foot Slope	0-3"	SL GR	VFR; SS SP	#3 Mottles @ 32" Matrix Chroma 2 AT 42"	48 2.5YR			Soil Wetness 45 Hot H2O Level 24"
		3-32	SCL WK SAB	FR; SS SP					
		32-48	SCL WK	FR SS SP					
2	Linear 2-10% Foot Slope	0-3"	SL GR	VFR; SS SP	Matrix Chroma 2 AT 36"				45 Soil Wetness
		3-36	SC WK SAB	FR; SS SP					
3	Linear 2-10% Foot Slope	0-2"	SL GR	VFR; SS SP	2.5YR Rely Mottling Begins 36"	48"			PS 0.25 gpd/ft² 1 Bdrm
		2-4"	SCL WK SAB	FR; SS SP					
		4-48	SC WK SBK	FIRM SS SP					
4	Linear 2-10% Side Slope	0-3	SL GR	VFR; SS SP					
		3-15"	SC WK SAB	FRI SS SP					
		Hit Quartz @ 15"	Quartz Rock						
		(In Drain Field)							

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	See separate sheet & plot
System Type(s)	T+J Reduction	
Site LTAR	0.25 gpd/ft²/day	

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS (0.25 gpd/ft²/day)
EVALUATED BY: [illegible] Steve Kedrick
OTHER(S) PRESENT: Rob's Trk #348

COMMENTS:
Note: Rake T Lines, Trench Site with (Grp 4)
Must Move Utility Shed to install T+J for entire System.

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)		S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)		SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)		Si (Silt)	0.6 - 0.5	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
		SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

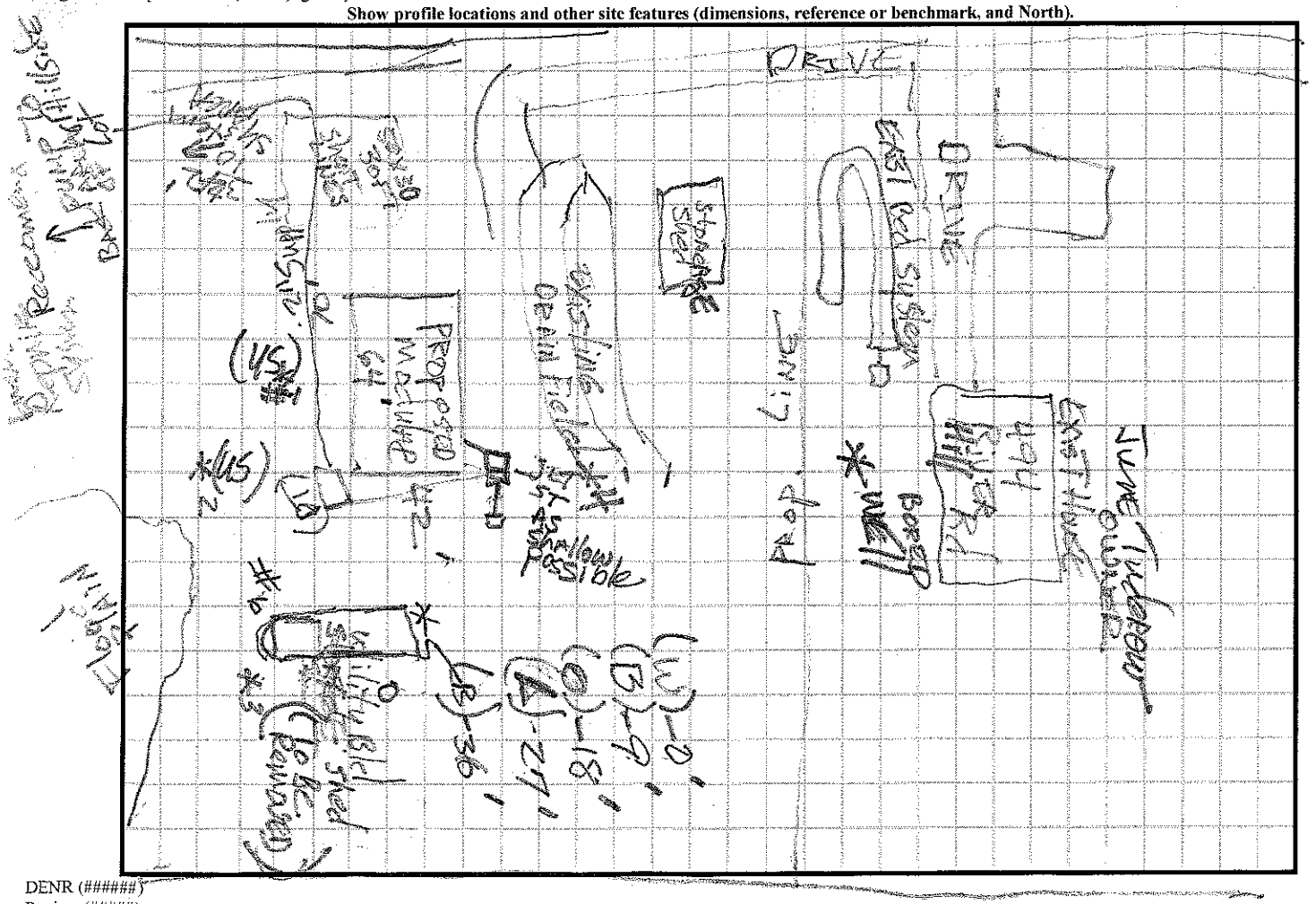
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



DENR (######)

Review (#####)

DENR/DEH

ON-SITE WASTEWATER SECTION

PIN # 4765-89-1406

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

Permit # 15790920

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: Tony S. Fox, SR
ADDRESS: (Lot 2 Behind 494 River Hill Road)
PROPOSED FACILITY: ___ PROPOSED DESIGN FLOW (.1949): 3 Bedroom SFR
LOCATION OF SITE: Hwy 64 East to River Hill Road
WATER SUPPLY: • X Private • Public • Well • Spring • Other (Area for Repair System)
EVALUATION METHOD: • X Auger Boring • Pit • Cut

APPLICATION DATE ___
DATE EVALUATED: 8-14-09
PROPERTY SIZE: 3.96 AC
PROPERTY RECORDED: ___
TYPE OF WASTEWATER: • X Sewage • Industrial Process • Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	Future Repair OTHER PROFILE FACTORS (Above Flood Plain) .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Linear 2-6% Side Slope	0-2"	SL GR WK SBK	VFR SS SP	2.5YR Yellow Mottles at 20"	48"			0.25 gal/ft²-day
		2-48	SC WK SBK	FI SS SP					
2	Linear 2-6% Side Slope	0-3"	SL GR	VFR SS SP	2.5YR	48"			0.25 gal/ft²-day
		3-48	C WK SBK	FI SS SP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM (Repair System)
Available Space (.1945)	465	
System Type(s)	Conventional	
Site LTAR	0.25 gal/ft²-day	

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PFS
EVALUATED BY: Ted Clemmons
OTHER(S) PRESENT: ___

COMMENTS: Requires 1" effluent pump tank & pressure manifold, Rake & Vane trench bottoms (GR 4 - from C/4)

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			MOIST	WET
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

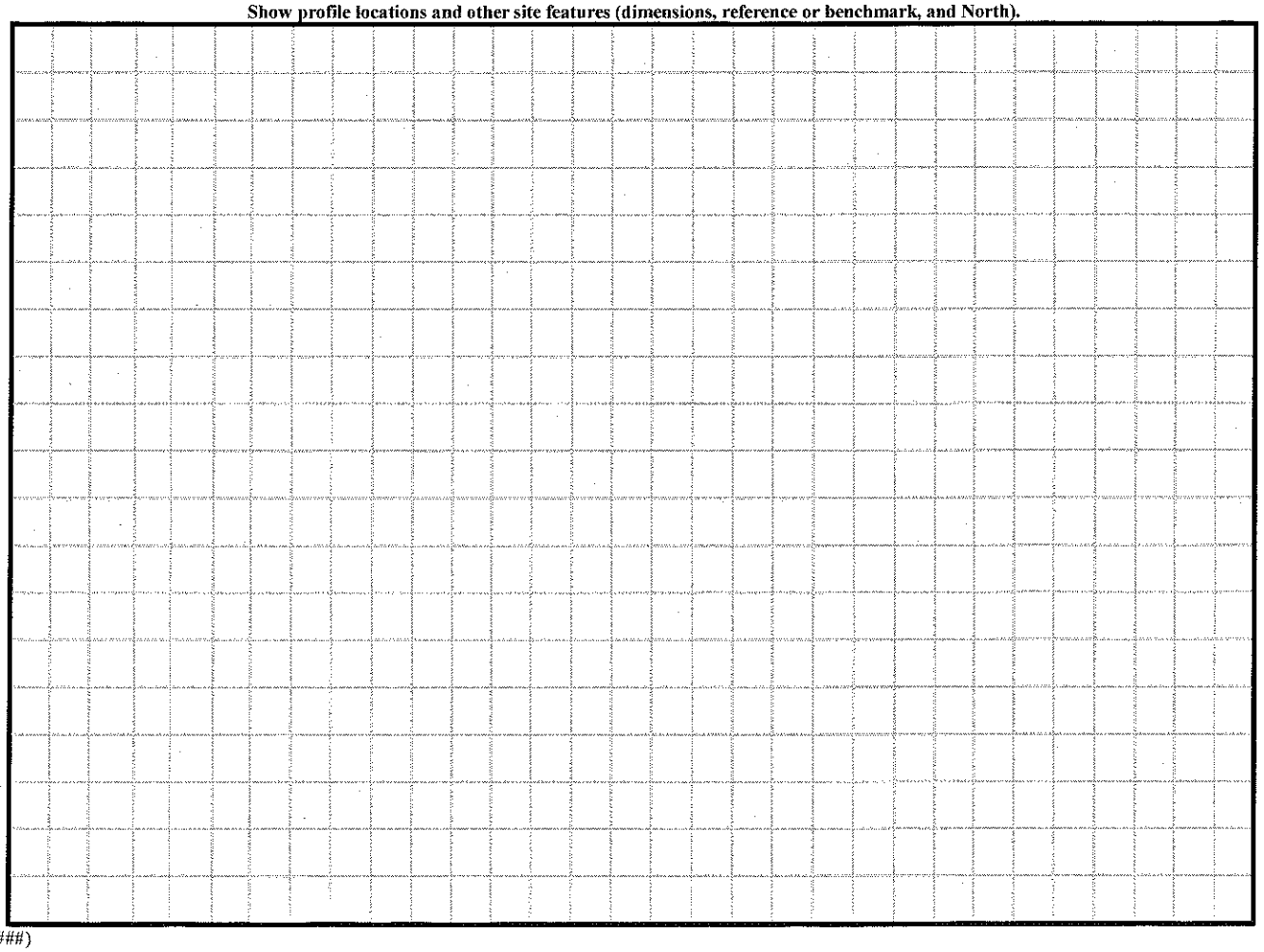
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



DENR (######)

Review (#####)

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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: ERODELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER:
ADDRESS: APPLICATION DATE
PROPOSED FACILITY: Single Family PROPOSED DESIGN FLOW (.1949): 360 gpd DATE EVALUATED: 7/15/05
LOCATION OF SITE: PROPERTY SIZE:
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	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	S LL	0-10	W M C	fr SS/SP SOAP		48"			PS .3
		10-24	m SBKSC	fr SS/SP SOAP					
		24-48	m SBK CL	fr SS/SP SOAP					
2	F LL	0-24	m SBKSCL	fr SS/SP SOAP		48"			PS .3
		24-48	m SBK SC	fr SS/SP SOAP					
3	S LL	0-18	m SBK SCL	VFr SS/SP SOAP		48"			PS .3
		18-48	m SBK SC	fr SS/SP SOAP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	S	S
System Type(s)	GRAV 25% RED	
Site LTAR	.3	

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Elaine Morris
OTHER(S) PRESENT:

COMMENTS:

LEGEND

use the following standard abbreviations

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CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

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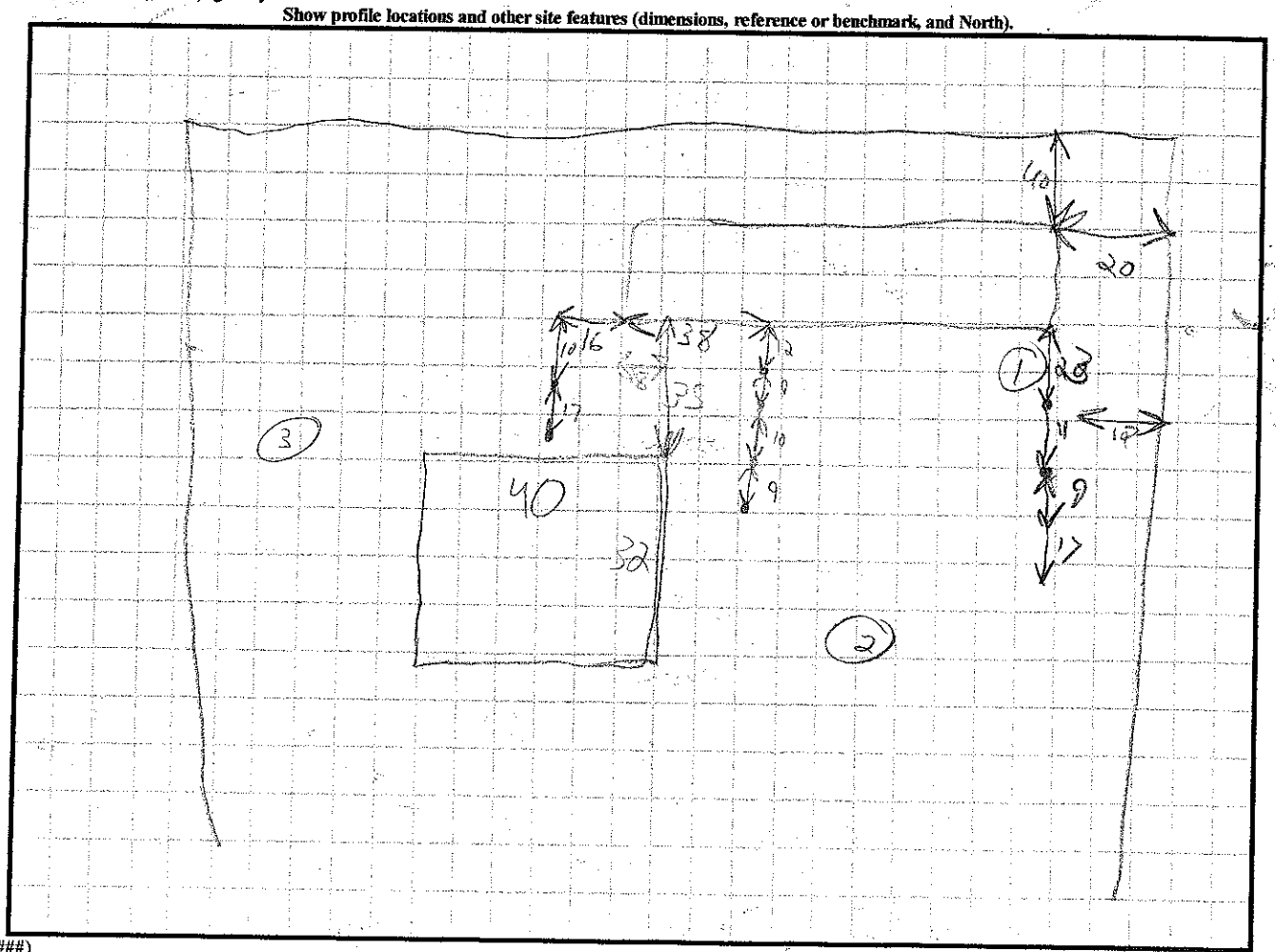
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DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



DENR (######)
Review (#####)