ICHD

Penninger Soil Consulting, PLLC
Ph: 704-996-6330 Email: pgpenninger@gmail.com

Call Pace for site visit

August 15, 2016

McLain Farms, Inc.
832 Snow Creek Road
Statesville, North Carolina 28625

Attention: Mr. Phillip McLain

Reference: **Technical Assistance with Expedited Review Septic Permitting**
134 Edgewood School Lane
Iredell County, North Carolina
Project No. 16-147

Dear Mr. McLain:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain a possible new, 4-bedroom septic system Improvement Permit on the above referenced lot from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with our written proposal / letter of authorization dated August 11, 2016.

We understand that McLain Farms owns the lot and wants to install a new 4-bedroom septic system for the existing farmhouse built around 1918. We understand there may be an existing septic tank and drainfield for the existing house, but the location is not known and there is no permit record with the ICHD. There is a clean-out near the east garage wall, and the tank may be under the garage slab. A trench was dug by around the northwest corner and the north garage wall, but no sewer pipe or drainfield was located. We also understand that Lentz Septic and Steve Jordan could not locate any part of the system with a tile probe. You have requested Penninger Soil Consulting, PLLC to assist with you obtaining a 4-bedroom Septic Improvement Permit for the existing house under the ICHD Expedited Review program to allow you to occupy the house in a timely manner.

Your surveyor flagged the property corners and we strung the north and east lot lines adjacent to the proposed system area. Penninger Soil Consulting described four backhoe pits in the proposed septic area and flagged the proposed septic drainfield lines. We are proposing a gravity, 25 Percent Reduction drainfield behind the existing house.

Once the septic area is permitted, it should be protected until system installation. Access to the lot should only be by the existing drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. The system should be installed under dry soil conditions.

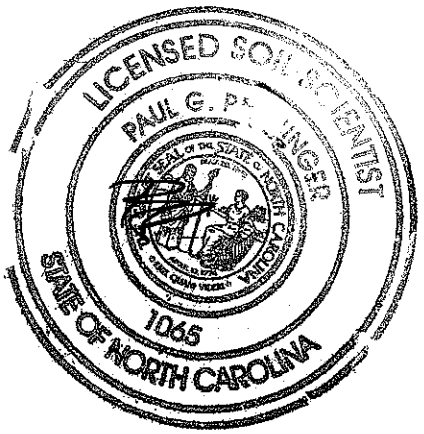
Penninger Soil Consulting, PLLC appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you with the Expedited Review site evaluation. The ICHD may show any changes or modifications they deem necessary to the proposed system on the ICHD Permits or attached site plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soil suitability 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,

Penninger Soil Consulting, PLLC

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



Attachments:

1. ICHD Septic Improvement Permit Application
2. Proposed Site Plan and System Information

Copy: ICHD

C:\Users\Paul G. Penninger\Documents\2016 Projects\16-147 McLain Farms, Inc. - Edgewood School Lane\McLain Farms - Expedited Review Summary Letter.doc

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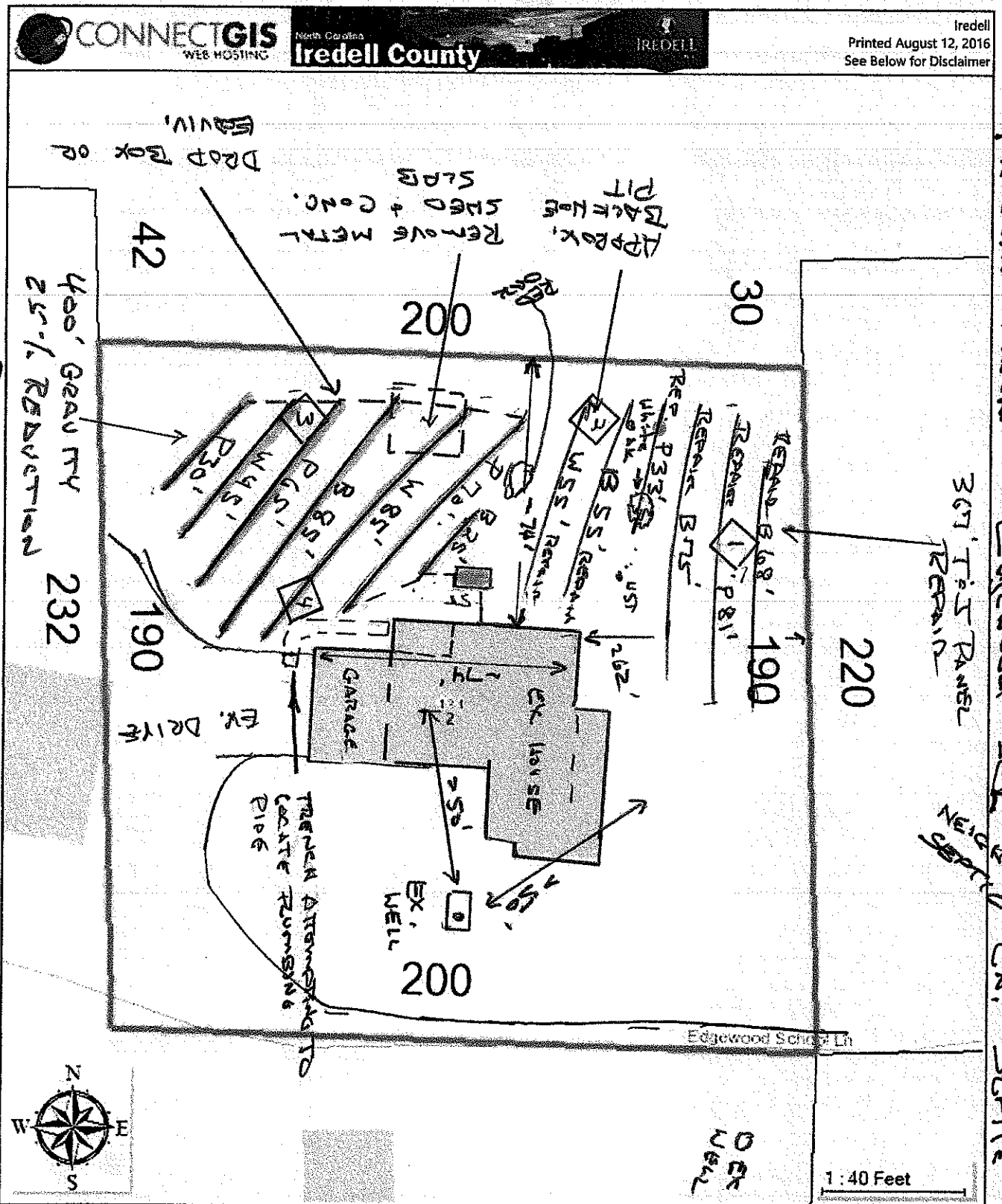
McLain Farms, Inc. - 134 Edgewood Sch. Ln. Expedited Review System Information (Pg 1 of 1)

August 15, 2016

Number of Bedrooms	4
Basement or Crawl	**Crawl - Slab Garage**
Design Flow (gpd)	480
LTAR (gpd/sqft)	0.3
Primary System Type	**Gravity 25 Percent Reduction**
No. Lines	7 lines (See Site Plan)
Total Linear Feet	405
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth	~~32~~ inch PBP 8-17-16
Pump Required	No
Distribution Device	Drop Boxes or other ICHD approved devices may be utilized
Maintenance Agreement Required	No
Repair System	**Low Pressure T&J Panel**
Total Linear Feet	367 ft shown (267 ft. required)
Repair LTAR (gpd/sqft)	0.3
Repair Trench Depth	32 ~~30~~ in. PBP 8-17-16

Note: Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.

- System is to be installed according to ICHD Permit requirements or policies.
- These specifications are to satisfy the ICHD Expedited Review checklist and are not intended to represent an Engineered System Design or Permit.
- Expedited Review system information and site plan must accompany Penninger Soil Consulting written report dated August 15, 2016.
- Installer to verify required setbacks with the ICHD prior to installation.



The maps prepared for this website are generated from recorded deeds, plats, and other public records. Users of these maps are hereby notified that the information provided herein should be verified. Iredell County assumes no legal responsibilities for any of the information contained on this site. Users are advised that the use of any of this information is at their own risk. All maps on this site were prepared using a 1000â€™ Grid based upon the North Carolina State Plane Coordinate System from the 1983 North American Datum. The delinquent real property tax overlay is updated monthly. The information presented is not intended to be used or relied upon as official notice of tax liens. For additional information regarding delinquent taxes, contact the Iredell County Tax Collector's Office.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #:
COUNTY:

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

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RA

OWNER: Rockland Town
ADDRESS: 134 Edmund Sch Ln
PROPOSED FACILITY: 3BR SFR
LOCATION OF SITE: 134 Edmund
APPLICATION DATE 8-15
DATE EVALUATED: 8-12-16
PROPERTY SIZE: ~87ac
PROPERTY RECORDED: yes

WATER SUPPLY: ☐ Private ☐ Public ☒ Well ☐ Spring ☐ Other
PROPOSED DESIGN FLOW (.1949): 440
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	L 5-10%	0-5	WSGR SL	FR 35/5%	BR				PS LTAR .3
		5-33	MSBK C	FR 35/5%	MOD				
		33-60	WSBK CL	FR 35/5%	GRY	1-2	SAP		
						60	0	0	
2	L 5-10%	0-9	WSBK SL	FR 35/5%	BR				PS LTAR .3
		9-41	MSBK C	FR 35/5%	MOD FI	SAP			
		41-60	WSBK CL	FR 10YR 5/2	GRY	1-2	SAP		
						60	0	0	
3	L 10-15%	0-5	WSGR SL	FR 35/5%	BR				PS LTAR .3
		5-34	MSBK C	FR 35/5%	MOD				
		34-59	WSBK CL	FR 35/5%	GRY/BR	1-2	SAP		
						59	0	0	
4	L 10-15%	0-5	WSBK SL	FR 35/5%	BR				PS LTAR .3
		5-34	MSBK SL	FR 35/5%	MOD				
		34-60	WSBK SL	FR 35/5%	GRY	1-2	SAP		
						60	0	2	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	2SC	TP 5
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PEP
OTHER(S) PRESENT: MUNI BSI addressed by LCHD

COMMENTS: