ICHD

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

June 22, 2016

Mr. Bruce Porter
2143 Mocksville Highway
Statesville, North Carolina 28625

Reference: **Technical Assistance with Expedited Review Septic Permitting**
Lot 12 Lone Pine Meadow Subdivision
138 Lonehart Lane
Iredell County, North Carolina
Project No. 16-139

Dear Mr. Porter:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain a possible new, 3-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 June 22, 2016.

We understand that you own the lot and want to construct a 3-bedroom home for a customer. You have requested Penninger Soil Consulting, PLLC to assist with obtaining a Septic Improvement Permit for a proposed 3-bedroom house under the ICHD Expedited Review program to allow you to obtain a building permit in a timely manner.

Your surveyor flagged the property corners and you had strung the lot lines in the grassed area and staked the proposed house box. Penninger Soil Consulting described four hand auger borings in the proposed septic area and flagged the proposed septic drainfield lines. We are proposing a gravity, 25 Percent Reduction drainfield behind the proposed home pad.

Once the septic area is permitted, it should be fenced off for protection during home 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. The small berm at the edge of the tree line near the rear property line should be smoothed if the repair is required in the future.

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. You should verify the proposed building pad meets the required zoning setbacks.

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\16-139 Bruce Porter - Lone Pine Lot 12\Bruce Porter - Expedited Review Summary Letter.doc

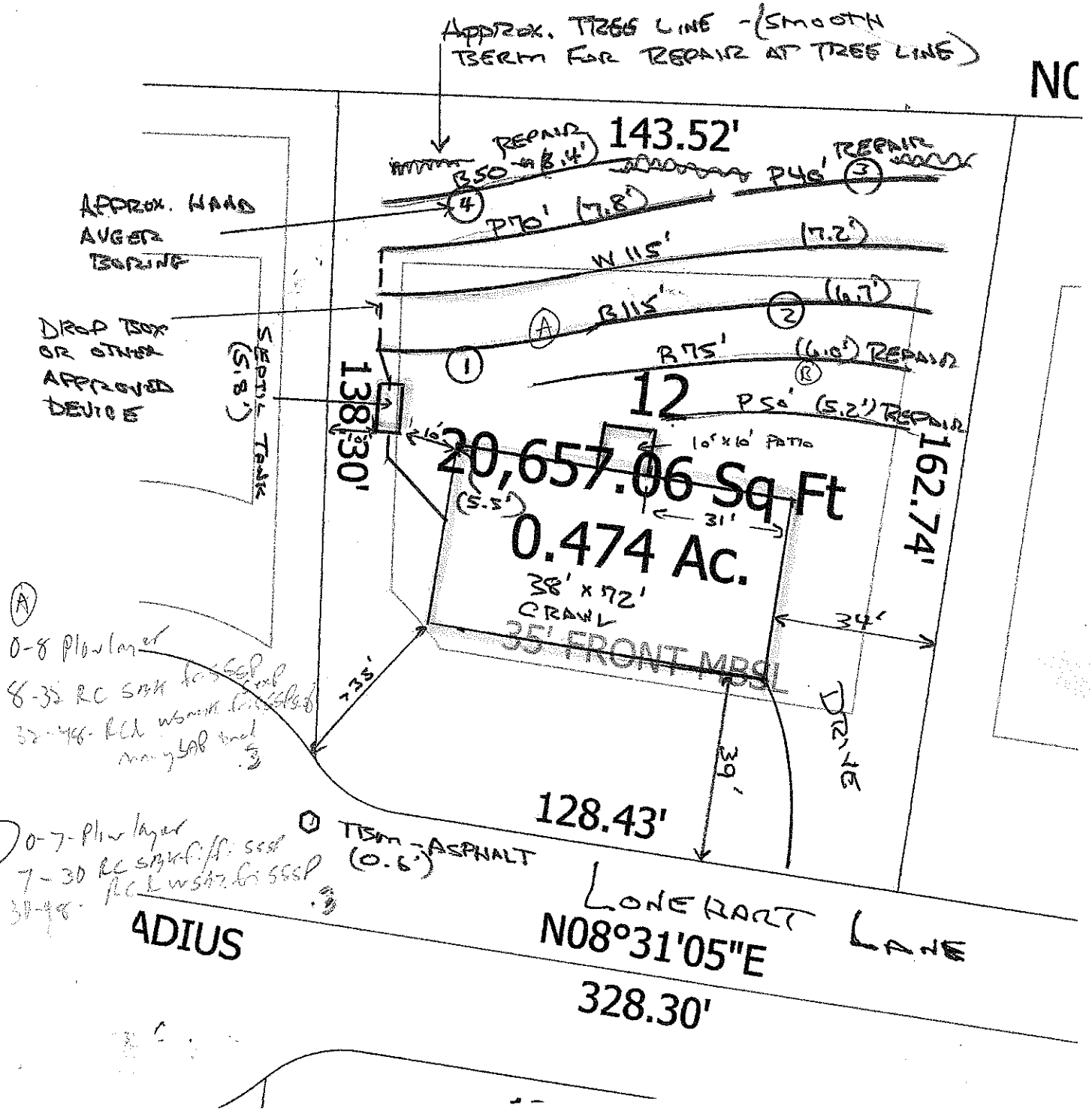
Lone Pine Meadow Lot 12 Expedited Review System Information (Pg 1 of 1)

Bruce Porter - June 22, 2016

Number of Bedrooms	3
Basement or Crawl	**Crawl - Slab Garage**
Design Flow (gpd)	360
LTAR (gpd/sqft)	0.3
Primary System Type	**Gravity 25 Percent Reduction**
No. Lines	2 lines @ 115 ft; 1 line @70 ft. (See Site Plan)
Total Linear Feet	300
Trench Width	3' min.
Trench Spacing	9' min.
Trench Depth	32 in. max.
Pump Required	No
Distribution Device	Drop Boxes (Drop Boxes or other ICHD approved devices may be utilized)
Maintenance Agreement Required	No
Repair System	**Low Pressure T&J Panel**
Total Linear Feet	215 ft shown (200 ft. required)
Repair LTAR (gpd/sqft)	0.3
Repair Trench Depth	32 in.

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 June 22, 2016.
- Installer to verify required setbacks with the ICHD prior to installation.



Bruce Porter – Lot 12 Lone Pine Meadows Expedited Review Septic Site Plan

Approximate septic and house pad locations - Refer to flagging in field. Owner to verify building setbacks. Site plan must accompany Penninger Soil Consulting, PLLC written report dated 6-22-16.

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)

OWNER: Bruce Poole
ADDRESS: Lot 2 Long Ridge Meadows
PROPOSED FACILITY: House
LOCATION OF SITE: 138 Long Road
APPLICATION DATE 6-26-14
DATE EVALUATED: 6-26-14
PROPOSED DESIGN FLOW (.1949): 360
PROPERTY SIZE: 1.474
PROPERTY RECORDED: yes
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	L ~8%	0-7	ws SiL sol	fr ss/ps	10YR 6/2	F	SPR		PS .3
		7-44	sbk C	fr s/p					
		44-48	ws SiL cl	fr ss/ps	10YR 6/2				
2	L ~8%	0-8	ws SiL sol	fr ss/ps	10YR 6/2	F	SAP		PS .3
		8-31	SBK C	fr s/p					
		31-48	ws SiL cl	fr ss/ps	10YR 6/2				
3	L ~8%	0-9	ws SiL sol	fr ss/ps	10YR 6/2	F	SAP		PS .3
		9-43	ms SiL C	fr s/p					
		43-48	ws SiL cl	fr ss/ps	10YR 6/2				
4	L ~8%	0-7	ws SiL sol	fr ss/ps	10YR 6/2	F	SAP		PS .3
		7-32	ms SiL C	fr s/p					
		32-48	ws SiL cl	fr ss/ps	10YR 6/2				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	256	TBD-LR
System Type(s)	PS	PS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PGE
OTHER(S) PRESENT: must be reviewed by LCHD

COMMENTS: