* Please call Paul For site visit

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

September 7, 2015

Reed Sapp
104 Waterhouse Ct.
Mooresville, North Carolina 28117

Reference: **Technical Assistance with Fast Track Septic Permitting**
ICHD Existing System Inspection and New Improvement Permit for a Proposed Pool
104 Waterhouse Court
The Point 1A Lot 27 – 0.99 Acres
Iredell County, North Carolina
Project No. 15-123

Dear Mr. Sapp:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain approval for a proposed pool and a four bedroom septic Existing System Inspection / New Improvement Permit from the Iredell County Health Department (ICHD) for the referenced lot. The technical assistance was performed in general accordance with our written proposal dated July 31, 2015.

The site has an existing home and 4-bedroom gravity, 25 Percent Reduction septic system that was approved by the ICHD. The attached Construction Authorization is dated April 30, 2015. You own the lot and want to construct a proposed pool and pool house that will impact part of the permitted repair area. You contacted Penninger Soil Consulting, PLLC to assist you with permitting a new repair area for the lot and locating the proposed pool.

Mr. Paul Penninger met you and Mrs. Sapp on the lot several times to discuss the project and the proposed pool location. Mr. Penninger flagged the existing septic tank and drainfield and the proposed 100 percent repair area on August 5, 2015. Your surveyor located the flagged existing septic system and repair area as shown on the attached site plan to assist you in locating the proposed pool and pool house on the lot.

The proposed pool should be located at least 15 feet from the septic tank and drainfield. Any foundation should be at least 5 feet from the tank and drainfield. We understand you will have a toilet in the pool house. Based on a conversation with you and your proposed builder on August 24, 2015, we understand that the pool plumbing fixture wastewater will be ejected to the existing septic tank per the NC Plumbing Code requirements. You and your builder should verify the pool and pool house meet all Iredell County Zoning and The Pointe requirements and setbacks.

The site field flagging and the attached site plan show the proposed pool can be constructed to maintain the 15 foot setback to the existing system and the proposed repair area. The decking of the pool can be placed closer than 15 feet to the existing system and the repair area. The attached site plan shows that there is a 100 percent T&J Panel repair reserved on the lot.

The existing system and repair are should be reflagged prior to pool construction to verify the required setbacks are met. The existing system and repair area should be fenced off for protection during pool construction. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system and no fill shall be placed over the existing system.

The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you with the ICHD Fast Track permitting and proposed pool site evaluation. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications and required setbacks before permitting and/or septic system installation. 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:

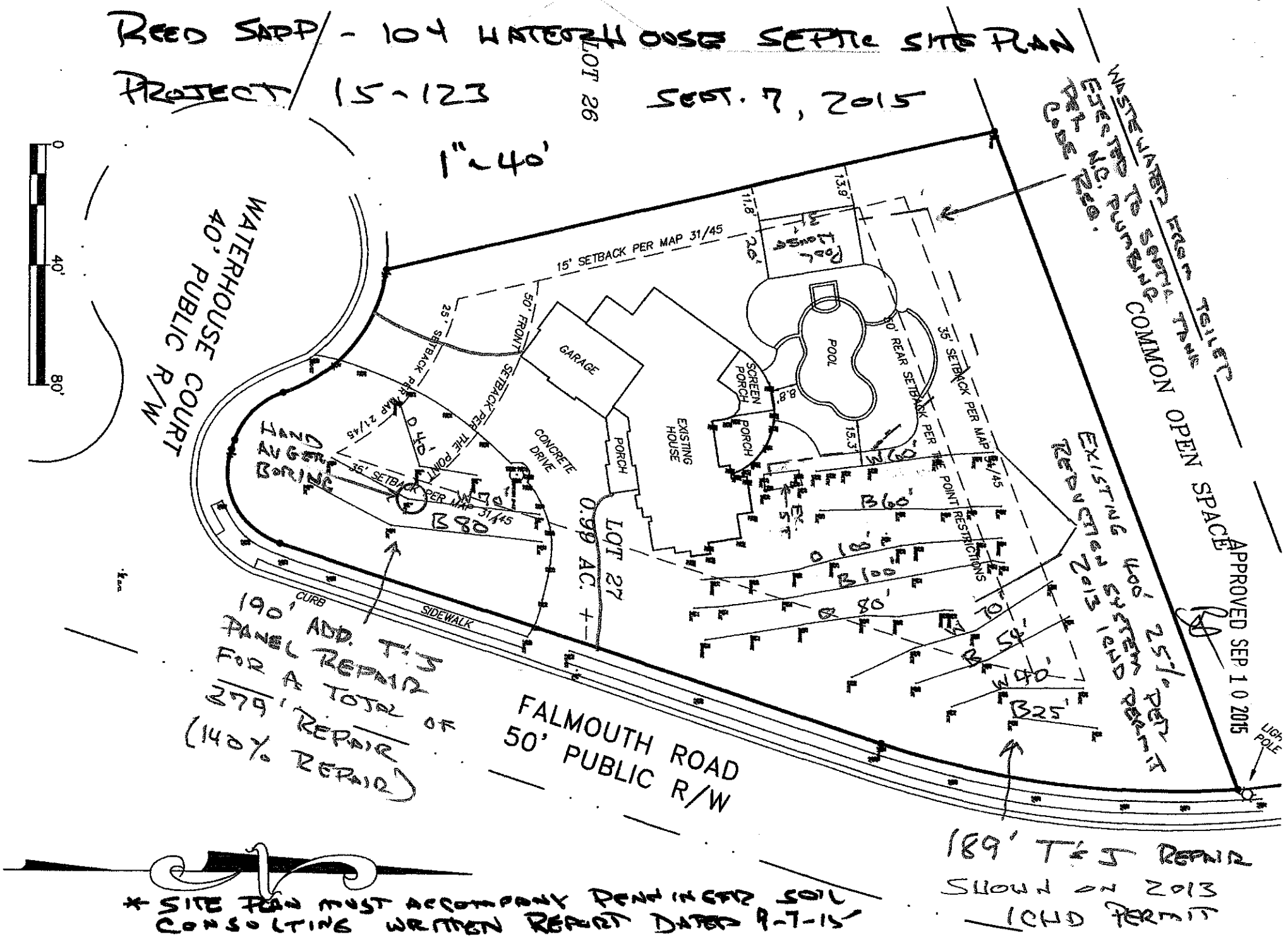
1. ICHD Permit Application and Zoning Permit
2. Site Plan, System Specifications, and 2013 ICHD Construction Authorization Permit

C:\Users\Paul G. Penninger\Documents\2015 Projects\15-123 Reed Sapp - 104 Waterhouse Pool\15-123 Reed Sapp Pool Approval Fast Track Summary Letter.doc

APPROVED SEP 10 2015

Reed Sapp - 104 Waterhouse Existing System Check and New Improvement Permit Proposal
The Point 1A Lot 27 - September 27, 2015

Number of Bedrooms	4
Basement or Crawl	**Crawl**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3 per ICHD permit
Primary System Type	**Installed Gravity 25% Reduction per 2013 Construction Authorization**
No. Lines	5
Total Linear Feet	400 ft per ICHD Permit
Repair System	**T&J Panel per ICHD Permit and 2015 Layout**
Total Linear Feet	379 ft shown on site plan - 267 ft. required
Repair LTAR (gpd/sqft)	0.3 per ICHD permit and 2015 hand auger boring


REED SAPP - 104 WATERHOUSE SEPTIC SITE PLAN
PROJECT 15-123
SEPT. 7, 2015
1"=40'
0
40'
80'
WATERHOUSE COURT
40' PUBLIC R/W
LOT 26
15' SETBACK PER MAP 31/45
25' SETBACK PER MAP 21/45
50' FRONT SETBACK PER THE POINT
GARAGE
CONCRETE DRIVE
PORCH
EXISTING HOUSE
SCREEN PORCH
POOL
35' SETBACK PER MAP 31/45
50' REAR SETBACK PER THE POINT RESTRICTIONS
LOT 27
0.99 AC. +/-
CURB
SIDEWALK
FALMOUTH ROAD
50' PUBLIC R/W
WASTEWATER FROM TOILET ETC. TO SEPTIC TANK PER N.S. PLUMB. CODE REG.
COMMON OPEN SPACE
EXISTING 400' 25% REDUCTION SYSTEM 2013 ICND PERMIT
APPROVED SEP 10 2015
LIGHT POLE
190' ADD. T&T PANEL REPAIR FOR A TOTAL OF 379' REPAIR (140% REPAIR)
189' T&T REPAIR SHOWN ON 2013 ICND PERMIT
* SITE PLAN MUST ACCOMPANY PERMIT APP. CONSULTING WRITTEN REPORT DATED 9-7-15

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:

BA

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

APPROVED SEP 10 2015

OWNER: REED SHOP
ADDRESS: 104 WATERHOUSE
PROPOSED FACILITY: 4 BDR
PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: 104 WATERHOUSE
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other Comm Well
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE
DATE EVALUATED: 2015
PROPERTY SIZE: 0.99
PROPERTY RECORDED: 92

TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	L 2%	0-5	compacted	s/cl soil	mottled				PS .3
		5-33	msbk/abk C	F: s/p red f sbk	ind, micro flakes				
		33-55	msbk C-cl	fr ss/sp red f sbk	micro flakes	55	2	0	
					0				
2									
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS Install	PS
System Type(s)	2 SP, 3	3 TD
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PEP
OTHER(S) PRESENT: must be Approved by LEAD

COMMENTS: