ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

MW BLDR-2023-24032

PERMIT # OSWP-2022-1554

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 3792 -- 35 -- 8002 ✓

APPLICANT/OWNER: Chris Walthop | APPLICANT ADDRESS: 10515 Ironwood Ave, Santee CA

SITE ADDRESS: 144 Hickory Hollar Dr, Statesville 28625 | PHONE: 619-559-5188 | ALT. PHONE: -

SITE DIRECTIONS: Hwy 70 W - Hickory Hollar | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: - | SECTION: -- | LOT # -- | LOT AREA: 8 acres | DESIGN FLOW: 360 gpd | L.T.A.R.: 0.3

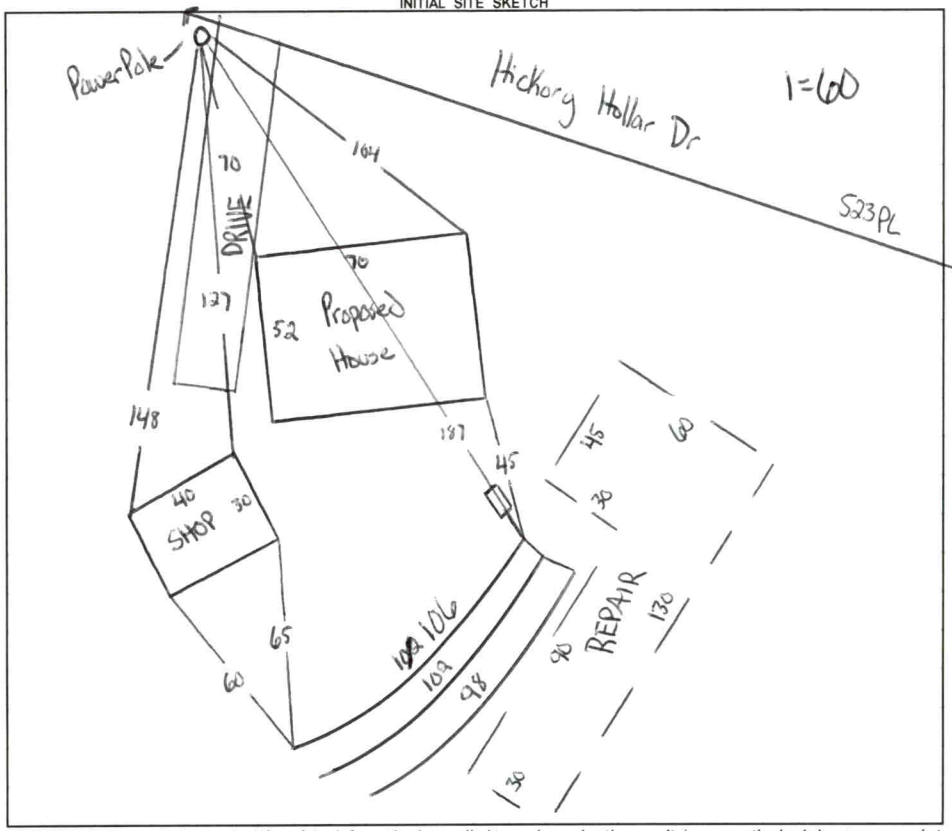
Septic Tank	1000 (gal)	STB	760	Date	9/30/23	☒ New System ☐ Repair ☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank	(gal)	PT		Date		System Description:	25% reduction	☐ Business	No. Persons 6
Pump Make		Model		Serial #		Repair System Description:	25% reduction	☐ Other	No. Employees
# Nitrification Fields	1	# Lines	3	Linear Ft	300'	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space
Trench Width	36 in	Trench Bottom Depth ~~(Low side)~~		36" max	Gravel Depth -	☒ GRAVITY	☐ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Install lines on contour with the land. Do not grade, park, or drive on septic area.

* House plans too big, does not impact septic. *

INITIAL SITE SKETCH



AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Installed as Drawn

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** ***with plat*** *valid without expiration.* ☒ **IMPROVEMENT PERMIT** ***with site plan*** *valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Online Signature | Date: | Installed by: Tim Summey

IMPROVEMENT PERMIT by: Cary Wil | Date: 11/14/22 | OPERATION PERMIT by: Cary Wil | Date: 11/15/23

AUTHORIZATION TO CONSTRUCT by: Cary Wil | Date: 3/8/23 | Existing System Inspected by: | Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

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

Sheet 1 of 1
PROPERTY ID #: 379235 8002
COUNTY: Iredell

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

OWNER: Chris Walkup
ADDRESS: 10515 Ironwood Ave, Santee CA
PROPOSED FACILITY: 3 bdr home
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 144 Hickory Hollar
APPLICATION DATE 8/14/22
DATE EVALUATED: 11/4/22
PROPERTY SIZE: 8 acres
PROPERTY RECORDED: yes

WATER SUPPLY: Private Public X Well Spring Other
EVALUATION METHOD: Auger Boring X Pit Cut
TYPE OF WASTEWATER: X Sewage Industrial Process Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Linear 9%	0 - 8	PLOW SCL		–	48	–	–	.3 PS
		8 - 30	C ABK	SS SP FR SE					
		30 - 48	CL SBK	SS SP FR SE					
2	Linear 7%	0 - 8	PLOW SCL		–	50	Litho C & CL layer	inc in CL layer	.3 PS
		8 - 23	C ABK	SS SP FR SE					
		23 - 50	CL SBK	SS SP FR SE					
3	Linear 9%	0 - 8	PLOW SCL		–	58	SAP CL layer	inc in CL layer	.3 PS
		8 - 26	C SBK	SS SP FR SE					
		26 - 58	CL SBK	SS SP FR SE					
4	Linear 10%	0 - 8	PLOW SCL		–	50	–	–	.3 PS
		8 - 30	C SBK	SS SP FR SE					
		30 - 50	CL SBK	SS SP FR SE					

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Cory Whicker
OTHER(S) PRESENT: Sarah Bracken

COMMENTS:

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	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						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.

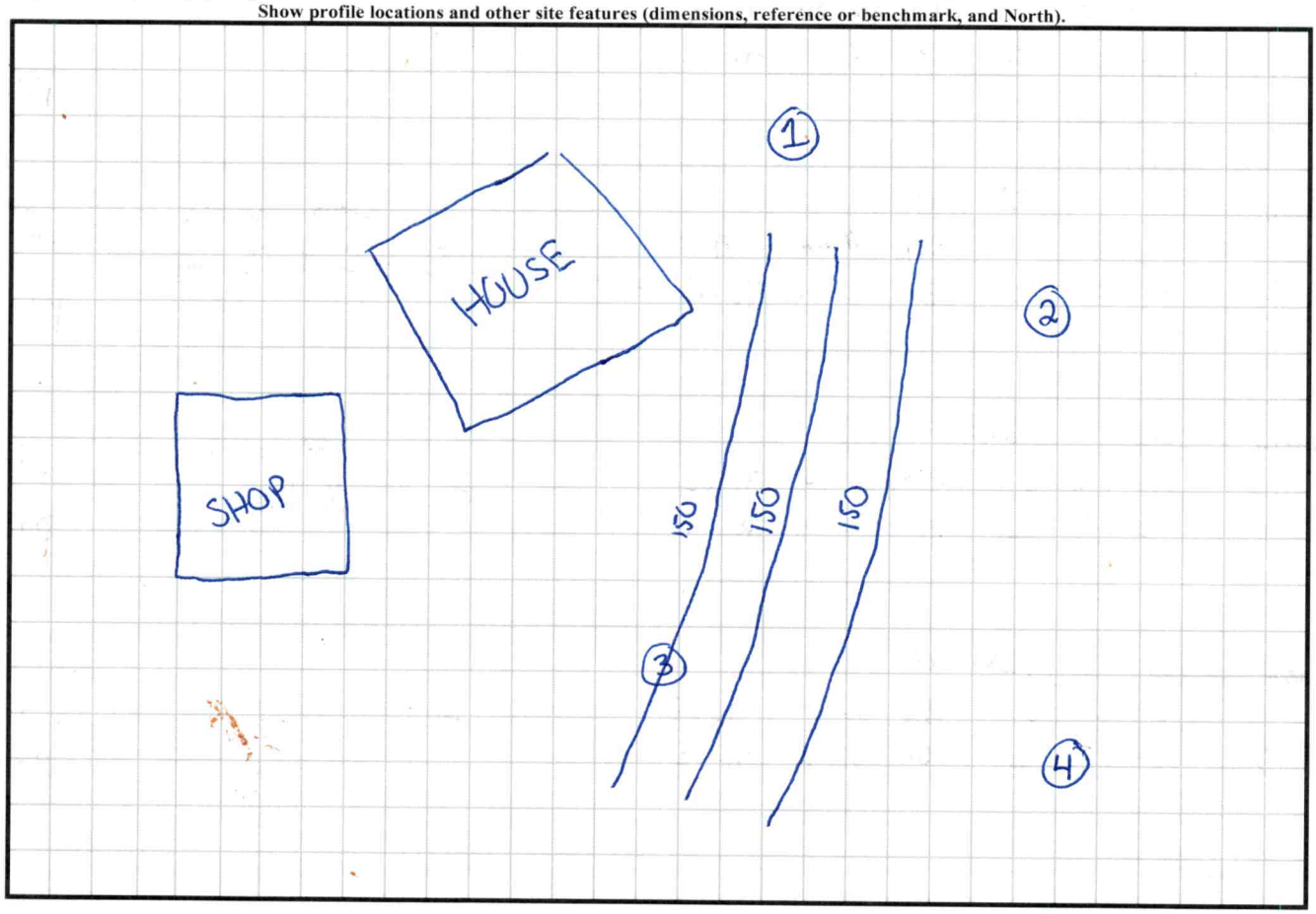
NOTES

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).



PERMIT SNAPSHOT REPORT OSWP-2022-1554
FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	08/14/2022
Work Class:	EH Septic Improvement Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	In Progress	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Whicker, Cory	**Approval Expire Date:**	
Description:					

Parcel: 3792358002.000 Main	**Address:** 144 Hickory Hollar Dr Statesville, NC 28677 Main	**Zone:** RA(Residential Agricultural District)

Applicant/Authorized Agent	Property Owner
Chris Walkup	Chris Walkup
10515 Ironwood Ave.	10515 Ironwood Ave.
Santee, CA 92071	Santee, CA 92071
Mobile: (619) 559-5188	Mobile: (619) 559-5188

Permit Custom Fields

How is your site plan being submitted	Custom Site Plan	Does the site contain any jurisdictional wetlands	No	Non-domestic Sewage Generated	No
Other Public Agency	No	All proposed structure dimensions	House - 51' X 69' Shop - 30' X 40'	What are the proposed structures	Accessory Building, New Single Family Residence
If other Addition/Structure, please explain	HOUSE & SHOP	Maximum Number of Bedrooms	3	Number of Occupants	2
Foundation Type	Crawl Space Foundation	Water Supply	New Well	Desired Septic System Type	Conventional (most common)
If other septic system type, please explain		Lot Acreage	8	Front Setback	35
Back Setback	35	Left Setback	15	Right Setback	15
Zoning Permit Issued Date	Sep 16 2022 12:00AM	Zoning Permit Expiration Date	Mar 15 2023 12:00AM	Is the structure or development in the floodplain	No
Is the property in a local historic district?	No	Is the property located downtown?	No	Additional Unique Setbacks Apply	No
Watershed	WSIV PA CATAWBA/LAKE NORMAN				

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Chris_Walkup_8/15/2022.jpg	08/14/2022 23:49	Walkup, Chris		Uploaded via CSS
Authorization Owners Representative08142022_v1.pdf	08/25/2022 13:06	Nebel, Barbara	Available Online	Authorize to Act as Agent
site plan 08142022_v1.pdf	08/25/2022 13:06	Nebel, Barbara	Available Online	Site Plan
Soil Evaluation 07302022_v1.pdf	08/25/2022 13:06	Nebel, Barbara	Available Online	Additional Supporting Information

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2022-20477	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	09/27/2022			09/27/2022 8:12	09/27/2022 8:12

Inspectors: Kobuck, Teanna (Primary)

Checklist Item	Description	Passed	Comments
General Comments	Checklist item used to track general comments, not specific to any other checklist item	No	

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00001044	New Gravity System	$500.00	$500.00
	Total for Invoice INV-00001044	$500.00	$500.00

PERMIT SNAPSHOT REPORT (OSWP-2022-1554)

INV-00002238	Iredell Zoning Tech Fee		$2.25	$2.25
	Iredell Zoning Permit Fee		$75.00	$75.00
		Total for Invoice INV-00002238	$77.25	$77.25
		Grand Total for Permit	**$577.25**	**$577.25**

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		08/25/2022 0:00	08/25/2022 14:11
Confirm application complete v.1	Generic Action		08/25/2022 14:11
Fees v.1		08/31/2022 0:00	08/31/2022 16:47
Issue Invoice v.1	Generic Action		08/31/2022 16:47
Fees Paid v.1	Generic Action		08/31/2022 16:47
Zoning Review v.1		08/25/2022 0:00	
Iredell County Zoning Approval v.1	Task	08/25/2022 0:00	09/16/2022 13:18
Issue Invoice v.1	Generic Action		09/16/2022 13:20
Fees Paid v.1	Generic Action		09/21/2022 8:17
Lot Readiness Verification v.1		09/28/2022 0:00	
OSWP Septic Preliminary Site Visit v.1	Inspection	09/28/2022 0:00	09/28/2022 8:18
OSWP Site Evaluation v.1	Inspection		
Issue Improvement Permit v.1			
Issue Invoice v.1	Generic Action		
Fees Paid v.1	Generic Action		
Issue Permit v.1	Generic Action		
Permit Completion Process v.1			
Authorization to Construct Permit v.1	Create Sub Permit		
Issue Authorization to Construct v.1	Generic Action		

CAROLINA SOIL & SEPTIC CONSULTING, PLLC

P.O. BOX 1703, Mooresville, NC 28115
(704) 202-5791 adrianpruett@yahoo.com
NC Licensed Soil Scientist, SC Professional Soil Classifier,
Certified Septic System Operator, Licensed Septic Installer,
Certified Septic Inspector

November 14, 2019
Project Name: 19209

Colleen Walkup

Re: Preliminary soil evaluation for an onsite waste water system located on ~8.00 acres (Parcel #'s 3792358002) as described and located in Iredell County, North Carolina.

Dear Mrs. Walkup:

Carolina Soil & Septic Consulting, PLLC, performed a single site soil investigation on the parcel referenced above (*See Soil Map*). The evaluation was performed at your request as part of the preliminary planning process to evaluate the soil suitability for an onsite subsurface wastewater disposal system. Fieldwork performed on November 6, 2019.

The location was traversed to observe elements of the landscape (slope, drainage patterns, complex topography, etc.) as well as soil conditions (depth, texture, structure, seasonal wetness, restrictive horizons, back fill, etc.) through the use of 6 hand auger borings. The site was evaluated during moist soil conditions. These observations of the site were used to identify areas relative to subsurface disposal of wastewater. The soil/site evaluation criteria used is that contained in 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems".

Requirements for sizing of the subsurface disposal field are as follows: 1) the design flow from the proposed facility (120 gallons/bedroom/day in residences), and 2) the long term acceptance rate (LTAR) of the soil (based on the hydraulic conductivity of the soil, a function of the soil's texture, clay mineralogy, structure, porosity, etc.) The proposed design flow on this site along with the size, shape and topography of the usable soil area will dictate the utility of that area. Another consideration are the required horizontal setbacks from various features such as wells (100'), surface waters (50') or more depending on watershed regulations, property lines (10'), top of embankment (15'), watershed buffers, etc. (*see Attachment 1*).

FINDINGS

This site is located on the west central side of Iredell County approximately 10.4 miles southwest of the City of Statesville, located in the Shiloh Township. All evaluated soils were formed in residuum weathered from felsic, igneous and high-grade metamorphic rocks of the Piedmont uplands. Soil borings were determined to have characteristics most similar to Cecil soil series. Cecil soil series typically have a dark yellowish brown sandy loam surface over red clay subsoil. Depth to bedrock ranges from 8 to 10 ft. These soils are generally suitable for conventional, modified conventional, accepted or innovative septic system.

Identified soils with in Borings 1-4 and 6 contained application rates of 0.3 gpd/sqft and were

evaluated to 48 inches. These borings are suitable for conventional, modified conventional, accepted and innovative septic systems.

Boring 5 was unlike other borings as it had yellow brown mottles to 36 inches, a few gray mottles at 22 inches and white gravel inclusions from 36 to 48 inches. Due to yellow brown and gray mottles being indicators of slowed water movement and stopped water movement it is recommended to keep the septic system out of this area. It is also believed that Boring 5 is an inclusion due to slight mineral changes and not believed to be the norm for the site. If Boring 5 is to be used it is recommended to place septic below 22 inches.

Property lines were not marked at time of evaluation.

The attached soils map indicates the location of 6 soil borings performed on the site.

WASTEWATER CONSIDERATIONS

The potentially utility of the useable soil area for a subsurface wastewater system can be accurately determined by an on-ground layout of the proposed system, house location and property lines marked in field.

Carolina Soil & Septic Consulting, PLLC evaluated the subject property and determined there to be enough usable soil for at least a 4 bedroom gravity septic and repair system. The house will need to be placed up slope of the evaluated area to achieve gravity otherwise a pump will be required.

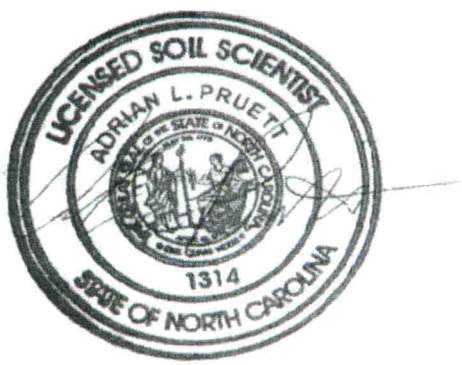
All soils were evaluated based on 15 A NCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". For all Onsite Water Disposal Systems Iredell County Environmental Health Dept. retains final determination of system type and application rate unless legislative laws are used.

Carolina Soil & Septic Consulting, PLLC, was pleased to be of service in this matter and look forward to assisting in any site analysis needs you may have in the future. Please feel free to call with any questions or comments.

Sincerely,

Encl: *Attachment 1*
Soil Map

Adrian L. Pruett

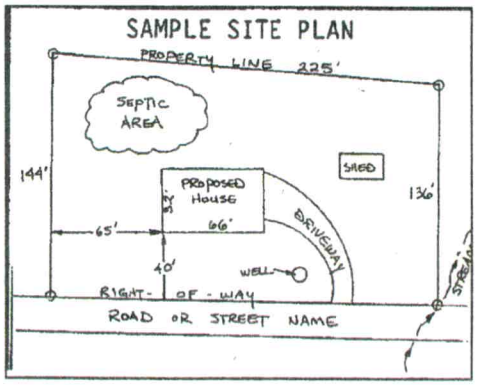


IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. ***INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!***



Place an (X) beside each item as you complete the site plan:

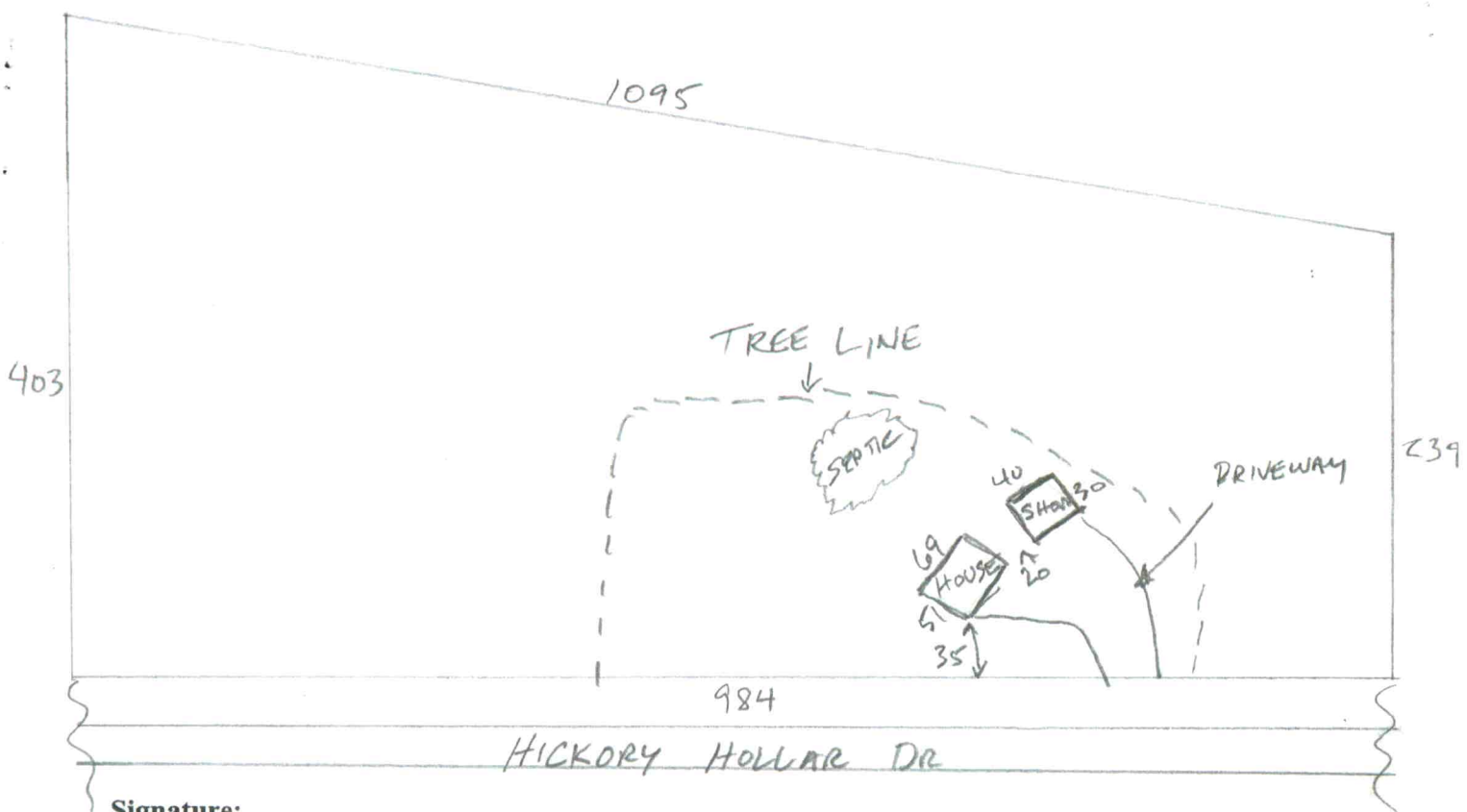
- ( ) Property Line measurements are clearly identified
- ( ) All proposed structures are indicated
- ( ) Front and side setbacks from property line
- ( ) Preferred driveway location and well location
- ( ) Area you prefer your septic system to be placed
- ( ) North arrow, or other sufficient indicator of direction

Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	N/A
Location of easements and rights of ways on your property	N/A
Location of any designated wetlands on the property	N/A

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site



Signature: _____

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

_____

DATE



CAROLINA SOIL & SEPTIC CONSULTING, PLLC

PO BOX 1703
MOORESVILLE, NC 28115

PHONE: (704)202-5791
EMAIL: ADRIANPRUETT@YAHOO.COM

SOIL EVALUATION
144 HICKORY HOLLAR DR.

IREDELL COUNTY PIN:
3792358002.000

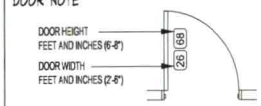
PROJECT MANAGER: ALP	FIELDWORK: ALP	DRAWING: ALP
PROJECT NUMBER: 19209	DATE: 11/15/2019	NOTES:

FLOOR PLAN NOTES

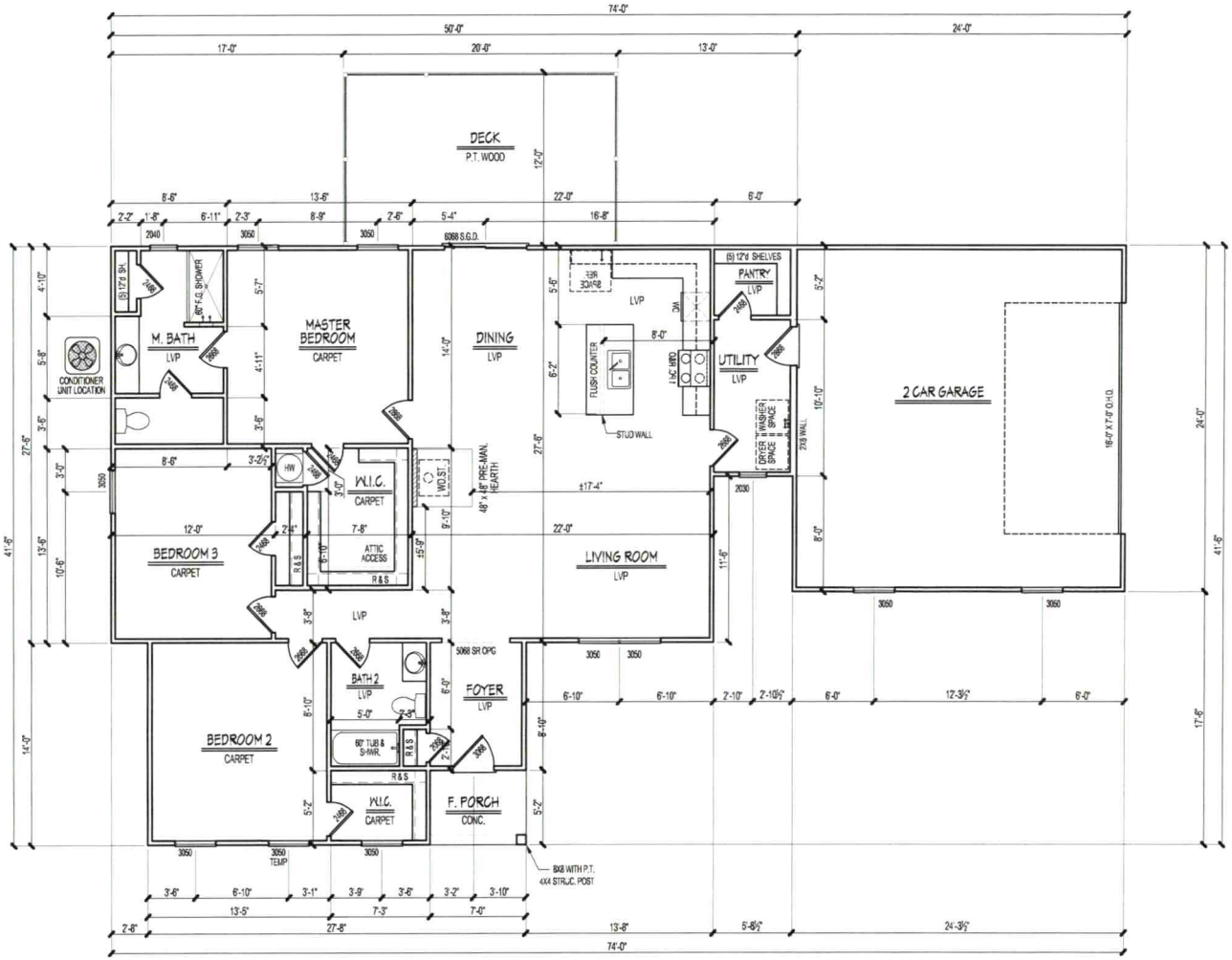
1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED PRIOR TO CONSTRUCTION
2. ALL DIMENSIONS ARE TO OUTSIDE OF OUTSIDE FACE OF WALL STUD, CONCRETE WALL OR C.M.U. WALL. NO WALL FINISHES, SIDINGS OR VENEERS ARE ASSUMED
3. ADAPT PLANS AS REQUIRED TO MEET ALL SITE CONDITIONS
4. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE AND MAY DIFFER FROM ACTUAL CONSTRUCTED RESIDENCE OR BUILDING.
5. VERIFY ALL FINISHES TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
6. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY ALL ROUGH OPENING SIZES.
7. LOCATE HVAC UNITS AND WATER HEATER AT SITE IF NOT SHOWN ON PLANS
8. ANGLES IN WALLS TO BE ASSUMED 45°, TYP. U.N.O.
9. VERIFY LOCAL CODE FOR LOCATION OF TEMPERED GLAZING REQUIREMENTS
10. EXTERIOR WALLS ARE TO BE 2X4 at 16" O.C., TYP. UNLESS NOTED OTHERWISE
11. INTERIOR WALLS ARE TO BE 2X4 at 16" O.C., TYP. UNLESS NOTED OTHERWISE
12. SINGLE HUNG WINDOW STYLE IS TO BE TYPICAL UNLESS NOTED OTHERWISE. COORDINATE COLORS AND SERIES TYPE WITH OWNER AND MANUFACTURER.

SQUARE FOOTAGES	(APPROX.)
FIRST FLOOR	1657 SQ.FT.
TOTAL LIVING	1657 SQ.FT.
GARAGE	578 SQ.FT.
FRONT PORCH	36 SQ.FT.
TOTAL NON-LIVING	614 SQ.FT.
TOTAL UNDER ROOF	2271 SQ.FT.

DOOR NOTE



1. PROVIDE WEATHER STRIPING ON ALL DOORS TO UNHEATED SPACE AND EXTERIOR DOORS
2. ALL GLAZING IN DOORS IS TO BE TEMPERED
3. COORDINATE DOOR PANEL STYLE WITH OWNER
4. COORDINATE HARDWARE STYLE WITH OWNER
5. SEE ELEVATIONS FOR ADDITIONAL DOOR INFORMATION



PRELIMINARY
PRELIMINARY INFORMATION ONLY
NOT FOR CONSTRUCTION

CLIENT APPROVAL

CLIENT INITIALS ____ DATE ____

CLIENT INITIALS ____ DATE ____

Holloway Family HOMES
1270 Northside Drive
Statesville, NC
(704) 872-5510

THIS DRAWING IS NOT TO BE REPRODUCED OR USED TO CONTRACT ANY BUILDING WITHOUT WRITTEN AUTHORIZATION AND SHALL REMAIN THE PROPERTY OF HOLLOWAY FAMILY HOMES

WALKUP RESIDENCE
144 Hickory Hollar DR. ◆ Statesville, NC

FIRST FLOOR PLAN

REVISIONS

DESIGN NO: 10-23-102
SCALE: 1/8" = 1'-0"
BASE PLAN NAME: LEWISVILLE
BASE PLAN LINE: AMERICAN TRADITIONS
DATE DRAWN: 03/01/23

A3.0