ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 327346

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

PIN # 4626--52--6086

APPLICANT/OWNER: Audrey Staskiy APPLICANT ADDRESS: 140 Seagrove Ln. Mooresville 28117

SITE ADDRESS: 140 Seagrove Ln. Mooresville NC 28117 PHONE: 704-779-3738 ALT. PHONE 704-948-9153

SITE DIRECTIONS: Exit 35 - Brawley Sch. Rd - Chuckwood - (R) on Seagrove, 1st (R) on Seagrove SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Holiday Harbor SECTION: LOT # 10 LOT AREA: 0.463ac DESIGN FLOW: 360gpd L.T.A.R.: 6.3

Septic Tank	1000	(gal)	STB	Infiltrator	Date		☐ New System	☒ Repair	☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms	3	Water Supply	
Pump Tank		(gal)	PT		Date		System Description:	Ex. Bed + VPPBPS			☐ Business	No. Persons	6	☒ Private	
Pump Make			Model		Serial #		Repair System Description:				☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1		# Lines	5	Linear Ft	135' +ex	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☐ Crawl Space		☐ Community	
Trench Width	24"		Trench Bottom Depth ~~(Invert)~~	36" max.	Gravel Depth	N/A	☒ GRAVITY	☐ PRESSURE			☒ Basement w/plumbing		☐ Basement w/o plumbing		

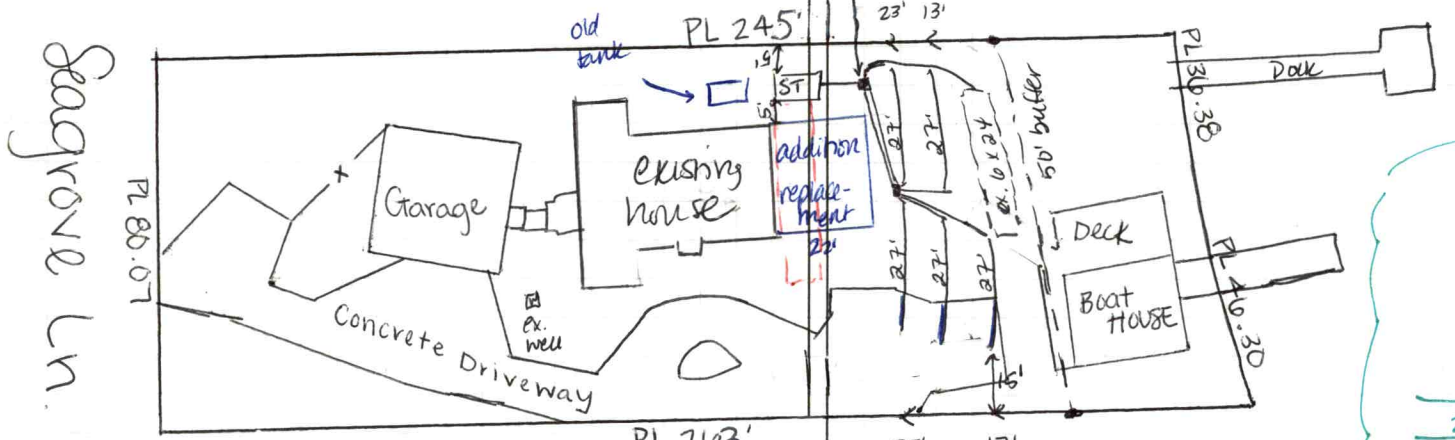
Comments / Conditions: Pump, crush, & fill old tank. Set lines on 8' centers. Maintain 10" above existing bed, 2' from end of existing bed with lowest line.

May be 5' from property line.
50' buffer must be marked during installation
Split feed according to diagram - call 704-902-4482 before install

INITIAL SITE SKETCH

Cut driveway as needed

1" = 40'



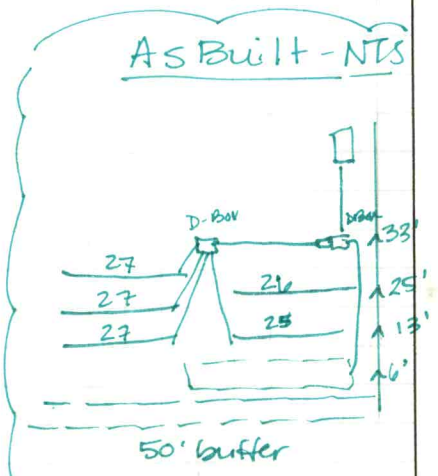
[ ] = existing damaged bed dam off any portion necessary

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.

Keep new tank 5' from house & prop. line.

D Box ← (1/3 flow to exist. bed 2/3 flow to 2nd d box)



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: Audrey Staskiy Date: 4/20/2022 Installed by: Adan Garcia

IMPROVEMENT PERMIT by: D. Weberg Date: 4/20/22 OPERATION PERMIT by: D. Weberg Date: 5/10/22

AUTHORIZATION TO CONSTRUCT by: D. Weberg Date: 4/20/22 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 #:
COUNTY: Craven

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

OWNER: Audrey Stasky
ADDRESS: 140 Seagrove Ln
PROPOSED FACILITY: 3bR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 140 Seagrove Ln
APPLICATION DATE
DATE EVALUATED: 4-13-22
PROPERTY SIZE: 0.4103
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	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	5-10	0-12	FILL	MIXED	Chroma 3's @ 45"	50"	N/A	N/A	PS .275-0.3 Shallow
		12-14	SCL/SBK	SS/SP/FR/SEXP					
		14-38	C/SBK	SS/SP/FR/SEXP					
		38-50	CL/SBK	SS/SP/FR/SEXP					
2	5-10	0-7	FILL	MIXED	mn staining	50"	N/A	N/A	PS .275-0.3 Shallow
		7-12	SCL/SBK	SS/SP/FR/SEXP					
		12-27	SCL/C/WSBK	SS/P/FR/SEXP					
		27-46	C/SBK	SS/SP/FR/SEXP					
		46-50	CL/SBK/ABK	SS/SP/FR/SEXP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		135'
System Type(s)		50%
Site LTAR		0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: D. Wilbourn
OTHER(S) PRESENT: S. Holland

COMMENTS:

Updated February 2014

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.

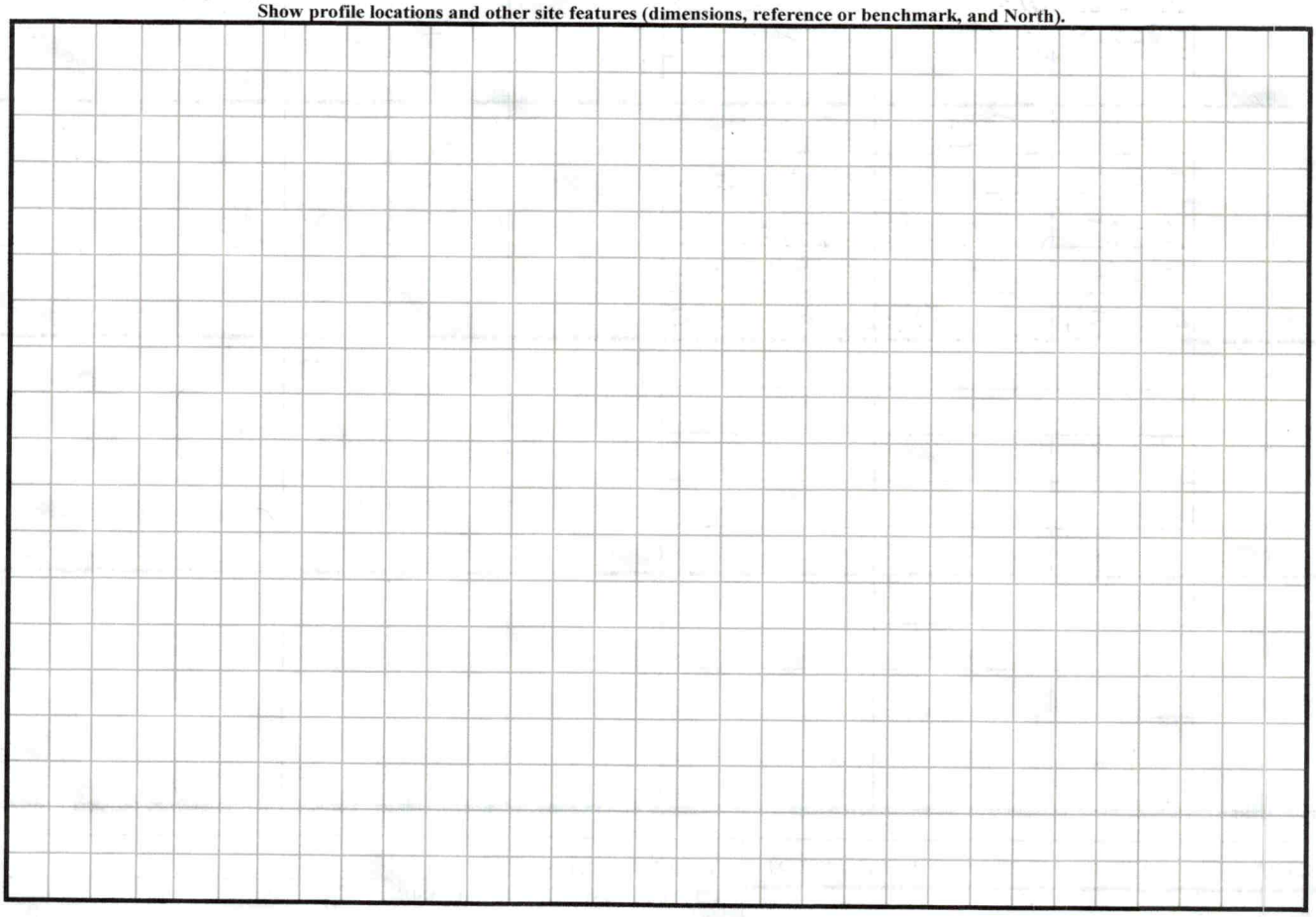
NOTES

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).



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TYPICAL HANGERS

HANGER	NUMBER
2x4	LUS24
2x6	LUS26
2x8	LUS28
(2) 2x6	HUS26-2
(2) 2x8	HUS28-2
(2) 2x10	HUS210-2
(2) 2x12	HUS212-2
(3) 2x6	LSU26-3
(3) 2x8	LSU28-3
(3) 2x10	LSU210-3
(3) 2x12	LSU212-3
(3) 1 3/4"W LSL OR PSL/LVL	HU26-3
(3) 1 3/4"W LSL OR PSL/LVL	HU28-3
(3) 1 3/4"	HU210-3
(3) 1 3/4"W LVL	HU210-3CT
(3) 1 3/4"W LVL / 1 1/8" LVL	HU26-3/1.81
(3) 1 3/4"W LVL / 1 1/8" LVL	HU28-3/1.81
(3) 1 3/4"W LVL / 1 1/8" LVL	HU210-3/1.81
(3) 1 3/4" - 1/8 1/8" LVL / 1 1/8" LVL	HHUS7-3/1.81

WALL STUD REQUIREMENTS

EXT. WALL HEIGHT (1)	STUD SIZE AND SPACING
9 = LESS THAN OR EQUAL TO 10'-0"	2x4 @ 16" O.C.
9 = 10'-0" TO 11'-0"	2x4 @ 12" O.C.
9 = 11'-0" TO 12'-0"	2x4 @ 16"O.C.
9 = GREATER THAN 12'-0"	CONSULT ENGINEER

3- 11 7/8" LVL CONTINUOUS HEADER OVER WINDOWS

5 1/4" X 7" PSL COLUMN 2-STORY WITH SIMPSON BASE AND CAP

3- 9 1/4" LVL HDR.- PORTAL FRAME (1) PANEL

FRAME-IN FLOOR TO STOP HANDRAIL BEFORE WINDOW TRIM (SLOPE BOTTOM)

2 JACKS 2 KINGS

SCISSOR ROOF TRUSSES

2x6 @ 16" O.C. EXTERIOR WALLS TYPICAL U.N.O.

7 S-1 Upper Floor Structural Plan

SCALE: 1/4" = 1'-0"

NOTE: THE WALL BRACING FOR THIS STRUCTURE HAS BEEN DESIGNED TO MEET OR EXCEED THE INTENT OF THE 2018 NCRC

GENERAL FRAMING NOTES

1) PROVIDE THERMO-PLY BEHIND ALL TUBS AND SHOWERS AGAINST EXTERIOR WALLS, BEHIND ALL FIREWALLS WITH ATTIC SPACE BEHIND, AND AROUND STAIRWAYS AS REQUIRED BY THE 2018 NCRC BUILDING CODE.
2) KERF THE BOTTOM OF ALL SUBFLOOR SHEATHING IN AREAS WHERE TOP-MOUNT HANGERS ARE USED.
3) LAP SUBFLOOR SEAMS MIN. 12" AWAY FROM LVL BEAMS IN THE FLOOR SYSTEM
4) ANY DISCREPANCIES ON THESE PLANS MUST BE BROUGHT TO THE ATTENTION OF THE BUILDER PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL MAKE THE VENDOR RESPONSIBLE FOR CORRECTION.

NOTE: THIS IS A "BUILDER" SET OF PLANS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DETAILS AND CONFORMANCE TO ACCEPTED CONSTRUCTION PRACTICES AND THE 2018 NCRC CODE.

LVL PLY TO PLY CONNECTIONS:

(2) PLY = 2 ROWS OF 16d (3.5") NAILS AT 12" O.C. STAGGERED (9 1/4" TO 11 7/8" LVLs)
(2) PLY = 3 ROWS OF 16d (3.5") NAILS AT 12" O.C. STAGGERED (14" TO 24" LVLs)
(3) PLY = PER 2 PLY FROM BOTH FACES U.N.O.
(4) PLY = 2 ROWS OF SDS = 9 3/4" TRUSSLOK SCREWS AT 24" O.C. STAGGERED

4" EDGE DISTANCE @ TOP/BOTTOM W/ 4" END DISTANCE FOR ALL FASTENERS

HEADER SCHEDULE

A = 3-2x10 SPF #2 HDR. W/ 1/2,1K E.E.
B = 3-2x10 SPF #2 HDR. W/ 1/2,2K E.E.
C = 3-2x8 SPF #2 HDR. W/ 1/2,1K E.E.
D = 3-2x8 SPF #2 HDR. W/ 1/2,2K E.E.

FLOOR, CEILING AND WALL FRAMING NOTES

1. ALL EXTERIOR WALLS TO BE SHEATHED WITH 7/16" O.S.B. ATTACHED TO FRAMING W/ 8d NAILS AT 6" O.C. EDGE AND 12" O.C. FIELD. PROVIDE BLOCKING AT ALL PANEL SPLICES.
2. ALL INTERIOR LOWER FLOOR LOAD BEARING HEADERS TO BE 3) 2x10'S U.N.O. W/ (1) JACK & (1) KING @ EACH END U.N.O.
3. ALL EXTERIOR WALL HEADERS TO HAVE (1) KING PER EVERY 3 FEET OF OPENING @ E.E. U.N.O.
4. INSTALL AN EXTRA TRUSS OR BLOCKING UNDER ALL PARTITION WALLS GREATER THAN 8'-0" IN LENGTH
5. TRANSFER ALL POINT LOADS FROM ABOVE THROUGH THE MAIN FLOOR W/ AN EQUAL AMOUNT OF STUD MATERIAL OR AS NOTED

= NUMBER OF STUDS. STUDS TO BE SAME SIZE AS ASSOCIATED WALL FRAMING STUDS

= 16" PRI-80 FLOOR I-JOISTS @ 16" O.C.

#J,#K = NUMBER OF JACKS & NUMBER OF KINGS

5 1/4" X 7" PSL COLUMN 2-STORY WITH SIMPSON BASE AND CAP

3- 9 1/4" LVL HDR.- PORTAL FRAME (1) PANEL

3- 2x10 HDR. W/ HH6 HANGERS EACH END

3- 16" LVL

CRIPPLES (2x6) UNDER BEAM

2 JACKS 2 KINGS

2x4 STUDS @ 16" O.C. - BRACE @ MID-HEIGHT

2x6 @ 16" O.C. EXTERIOR WALLS TYPICAL U.N.O.

3- 9 1/4" LVL OVER WALL @ STAIRS, EXTEND 12" BEYOND STAIR OPENING AT EACH END

= TIE NEW WALL TOP PLATES TO EXISTING WALL PLATES W/ (2) 24" LONG CS- 18 STRAPS (TYPICAL ALL LEVELS)

6 S-1 Lower Floor Structural Plan

SCALE: 1/4" = 1'-0"

Acknowledgement of Plans Submittal ONLY!

Date 4/20/22

Date 4/20/22

APPROXIMATE

4 S-1 WALK-OUT BASEMENT WALL DETAIL

SCALE: 3/4" = 1'-0"

U.S. HOME DESIGNS, INC.
2005 Hazelwood Dr. Statesville, NC 28625 Phone: 704-309-0762
Designer: Stephen W. Turley
www.ushomedesigns.com

New Addition plans for:

Stasky Residence

140 Seagrove Lane, Mooresville, NC

2x6 P.T. SILL PLATE
6 MIL. POLY V.B.
4" GRAVEL FILL
1/2" DIA. HOT-DIPPED GALVANIZED ANCHOR BOLTS @ 6'-0" O.C., EMBEDDED IN CONCRETE 7" MINIMUM AND NOT MORE THAN 12" FROM CORNERS AND SPLICES (MIN 2 PER WALL)
18" WIDE x 10" DEEP THICKENED SLAB
2- #4 RR CONT.

3 S-1 INTERIOR BEARING WALL DETAIL

SCALE: 3/4" = 1'-0"

2x6 P.T. SILL PLATE W/ 1/2" DIA. HOT-DIPPED GALVANIZED ANCHOR BOLTS @ 6'-0" O.C., EMBEDDED IN CONCRETE 7" MINIMUM AND NOT MORE THAN 12" FROM CORNERS AND SPLICES (MIN 2 PER WALL)
4" CONC. SLAB W/ 6x6xW1.4XW1.4 WWF ON 6 MIL POLY ON 4" GRAVEL AND COMPACTED FILL (SOIL POISON TYPICAL)
SILL SEALER
8" CMU
#4 REBAR
18" MIN.

2 S-1 WALK-OUT BASEMENT WALL DETAIL

SCALE: 3/4" = 1'-0"

P.T. WOOD DECK CANTILEVERED

5 S-1 UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"

4 S-1 LOWER FLOOR PLAN

SCALE: 1/4" = 1'-0"

672 SQ. FT. x 2 = 1,344 SQ. FT.

3- 2x10 P.T. DROPPED GIRDER

8" CMU OVER 20" WIDE x 16" DEEP CONC. FOOTING W/ 2) #4 R.R. CONT.

FOUNDATION NOTES:

- ALL DIMENSIONS SHALL BE VERIFIED AGAINST ARCHITECTURAL PLANS.
- CONCRETE TO HAVE 3000 PSI COMPRESSIVE STRENGTH
- ALL SOIL TO HAVE 2000 PSF MIN. BEARING CAPACITY
- PROVIDE SIMPSON PAB4 1/2" ANCHOR BOLTS AT ALL DTT2Z LOCATIONS. EMBED MIN. 7" INTO MASONRY PER 2018 NCRC
- TRANSFER ALL POINT LOADS ABOVE THROUGH FLOOR TO FOUNDATION WITH AN EQUAL AMOUNT OF STUD MATERIAL
- ALL FOOTINGS BEAR MIN. 12" BELOW GRADE (TYP.)

= 2x10 P.T. S.Y.P. #2 DECK JOISTS @ 16" O.C.

4" CONC. SLAB W/ 6x6xW1.4XW1.4 WWF ON 6 MIL POLY ON 4" GRAVEL AND COMPACTED FILL (SOIL POISON TYPICAL)

DEMOLISH ALL FOUNDATION IN THIS AREA

ORIGINAL FOUNDATION BEFORE ADDITION

18" WIDE x 10" DEEP THICKENED SLAB

ALL DIMENSIONS ARE SUBJECT TO SITE VERIFICATION

= TIE-IN NEW FOOTING TO EXISTING FOOTING W/ (2) #4 R.R. W/ 6" EPOXY EMBEDMENT INTO EXISTING FOOTING

1 S-1 FOUNDATION PLAN

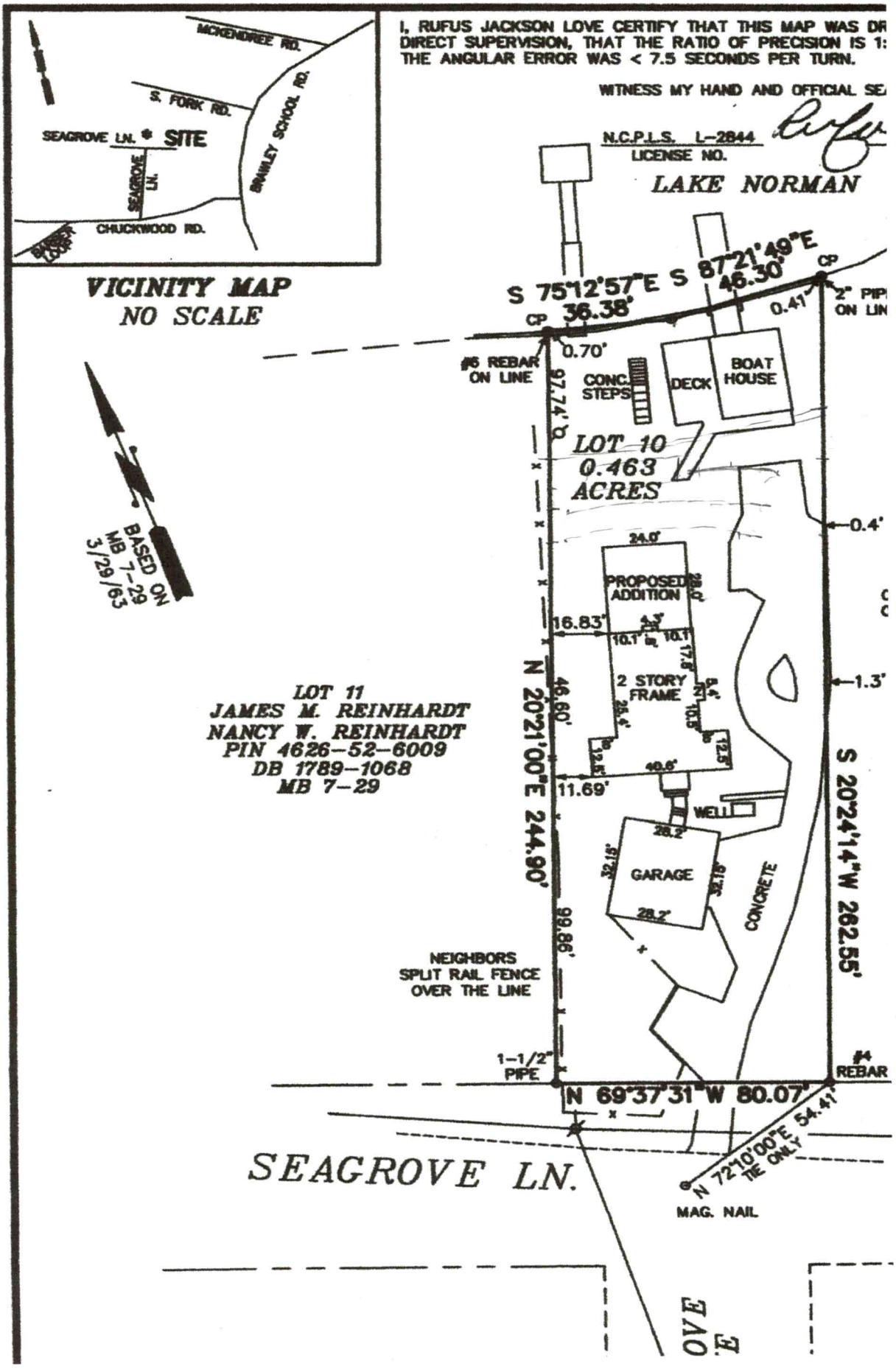
SCALE: 1/4" = 1'-0"

FOUNDATION AND FLOOR PLANS

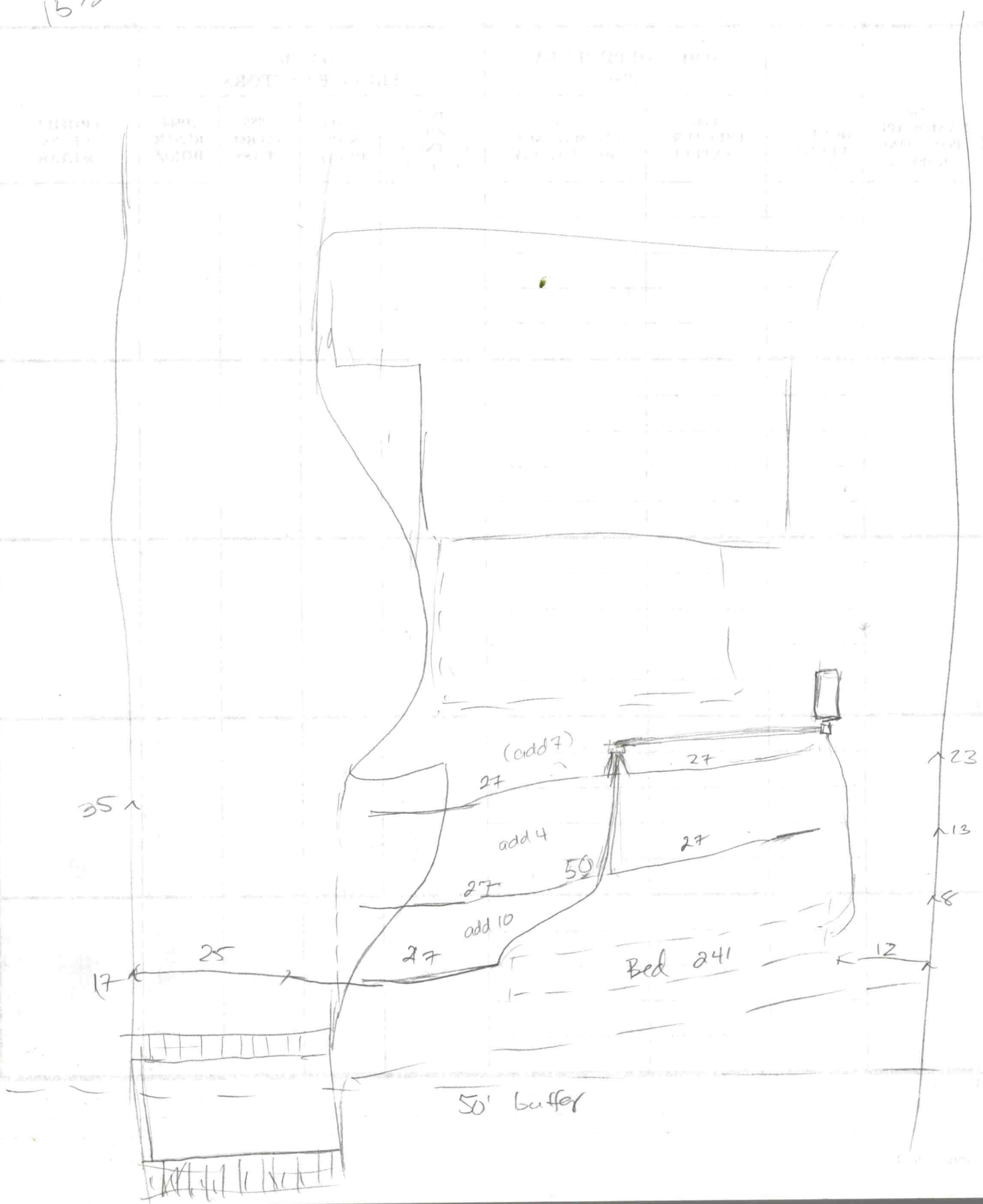
4-19-22

SHEET No. S-1

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I, RUFUS JACKSON LOVE CERTIFY THAT THIS MAP WAS DR
DIRECT SUPERVISION, THAT THE RATIO OF PRECISION IS 1:
THE ANGULAR ERROR WAS < 7.5 SECONDS PER TURN.
WITNESS MY HAND AND OFFICIAL SE
N.C.P.L.S. L-2844
LICENSE NO.
LAKE NORMAN
MCKENDREE RD.
S. FORK RD.
SEAGROVE LN.
SITE
SEAGROVE LN.
BRAWLEY SCHOOL RD.
CHUCKWOOD RD.
RIVER LOOP
VICINITY MAP
NO SCALE
S 75°12'57"E 36.38'
S 87°21'49"E 46.30'
CP
0.41'
0.70'
#6 REBAR ON LINE
CONC. STEPS
DECK
BOAT HOUSE
87.74'
LOT 10
0.463
ACRES
0.4'
24.0'
PROPOSED ADDITION
16.83'
10.1'
10.1'
17.8'
2 STORY FRAME
1.3'
46.60'
N 20°21'00"E 244.90'
S 20°24'14"W 262.55'
LOT 11
JAMES M. REINHARDT
NANCY W. REINHARDT
PIN 4626-52-6009
DB 1789-1068
MB 7-29
BASED ON MB 7-29 3/29/63
40.6'
12.5'
11.69'
WELL
28.2'
32.18'
GARAGE
CONCRETE
89.86'
NEIGHBORS SPLIT RAIL FENCE OVER THE LINE
1-1/2" PIPE
#4 REBAR
N 69°37'31"W 80.07'
54.41'
N 72°10'00"E TIE ONLY
MAG. NAIL
SEAGROVE LN.

157'


(add 7)
27
27
23
35'
add 4
27
50
13
27
add 10
8
25
27
17'
Bed 241
12'
50' buffer

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet ____ of ____

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

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	

COMMENTS: _____

Updated February 2014

RECEIVED APR 05 2022

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED

BW DW

Iredell County Health Department – Environmental Health Division

Repair eval

PAGE 1: *APPLICATION FORM* AP-327346

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit ( ) Authorization to Construct ( ) Existing System Inspection (X) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: (X) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: **(PRINT CLEARLY)**

Applicant Name: AUDREY STASKY **Address:** 140 SEAGROVE LN MOORESVILLE **Zip:** 28117
Applicant Email: stasaa30@gmail.com **Phone:** 704-779-3738 **Alt. Phone:** 704-948-9153
Owner Name: JAMES & AUDREY STASKY **Address:** 140 SEAGROVE LN MOORESVILLE **Zip:** 28117
Owner Email: stasaa30@gmail.com **Phone:** 704-779-3738 **Alt. Phone:** 704 948-9153

Property Information:

Street Address: 140 SEAGROVE LN
Subdivision Name: HOLIDAY HARBOR **Section/Phase:** _____ **Lot Number:** 10
Driving Directions: EXIT 35 - BRAWLEY SCH. LN TO CHUCKWOOD - TAKE RIGHT - - 1ST RIGHT ON SEAGROVE LN

Site Development Information: ***(check or complete ALL that apply***

CHECK FOUNDATION TYPE

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines **Describe Problem:** _____
Maximum Number of Bedrooms: 4
Maximum Number of Occupants: _____
( ) Swimming Pool
(✓) Other Addition/Structure: _____
( ) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development: **Type of Business:** _____
Square Footage of Building: _____ **Max. Number of Employees:** _____ **Max. Number of Seats/Beds/Other:** _____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well **Number of Houses:** 1 **Number of Persons:** 2
( ) New Well (✓) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:** 1969
(7) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:
( ) Yes (X) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (X) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes ( ) No ? **Is the site subject to approval by any other public agency?**

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

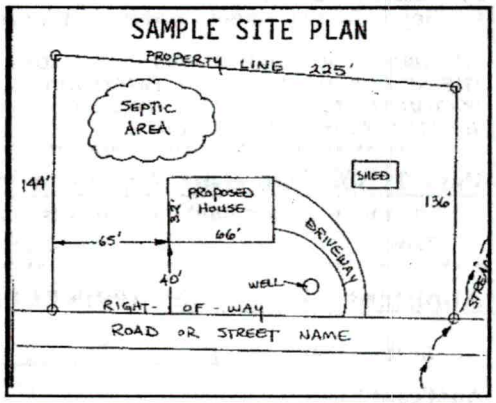
Signature: _____ 4/5/2022
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

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)

4/5/2022

DATE

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TYPICAL HANGERS

HANGER	NAILING
LUS	4-10d
LUS	4-10d
LUS	4-10d

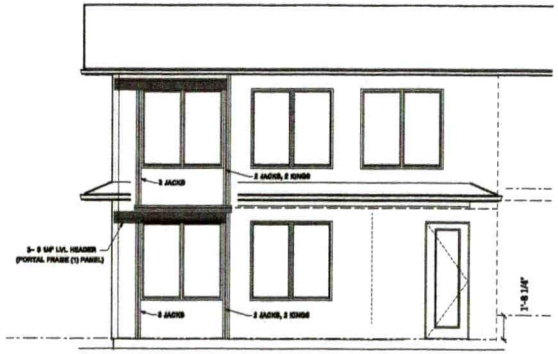
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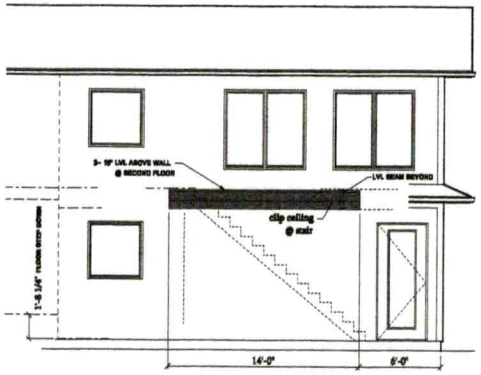
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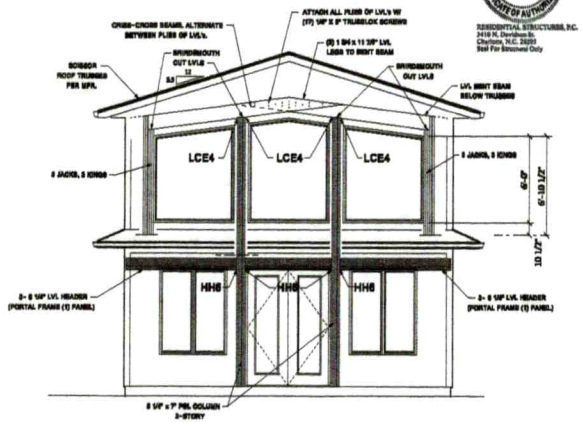
6 S-2 SIDE ELEVATION FRAMING DIAGRAM

SCALE: 1/4" = 1'-0"



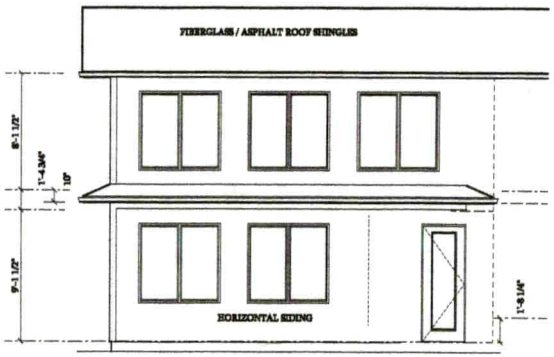
5 S-2 DRIVEWAY SIDE FRAMING DIAGRAM

SCALE: 1/4" = 1'-0"



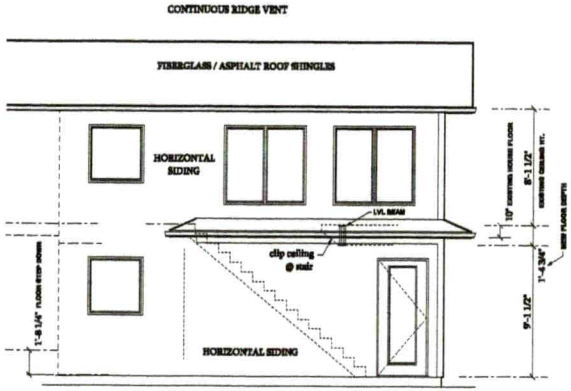
4 S-2 LAKE SIDE FRAMING DIAGRAM

SCALE: 1/4" = 1'-0"



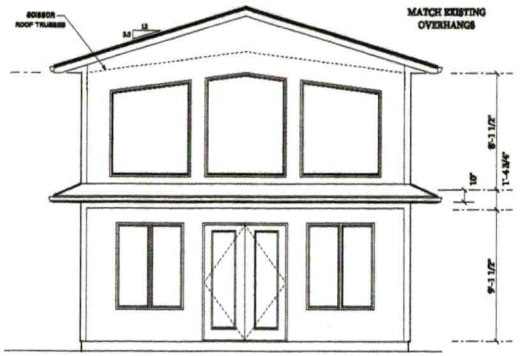
3 S-2 SIDE ELEVATION

SCALE: 1/4" = 1'-0"



2 S-2 DRIVEWAY SIDE ELEVATION

SCALE: 1/4" = 1'-0"



1 S-2 LAKE SIDE ELEVATION

SCALE: 1/4" = 1'-0"

3-16-22

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U.S. HOME DESIGNS, INC.
2005 Hazelwood Dr., Summerville, NC 29483 Phone: 704-926-0702
Designer: Stephen W. Tinsley
www.ushomedesigns.com

New Addition plans for:
Stasky Residence
140 Seagrove Lane, Mooresville, NC

ELEVATIONS AND DETAILS

SHEET No. S-2

GENERAL NOTES

RESIDENTIAL STANDARD NOTES:

DESIGN LOADS:

1) Design loads are all dead loads plus:
   a) Sleeping rooms: 30 PSF
   b) All other floors: 40 PSF
   c) Balconies: 60 PSF
   d) Attic floor live loading with the following:
      i) Area accessible by stairs: 30 PSF
      ii) Roof slopes >3:12: 20 PSF
      iii) Roof slopes <3:12: 10 PSF
   e) Roof live load: 20 PSF, or as req'd by code
   f) Wind load: 110 MPH, or as req'd by code
   g) Snow load: 20 PSF, or as req'd by code
2) All designs are in accordance with North Carolina Building Code, 2012 Edition and the International Residential Code. Refer to the relevant Code for any additional information not covered in these notes or designs.
3) Engineering design is for structural information only. The Engineer of Record does not accept responsibility for dimension errors, architectural errors, detailing of waterproofing, plumbing, electrical, or mechanical information or any part of the plan not relevant to structural information.

RESIDENTIAL FOUNDATIONS:

1) All continuous wall footings are 8"x16" for one and two story houses. Footings for three story walls shall be 12"x24" unless otherwise noted otherwise. Reinforcing is to be as noted on plans. Footings on original soil do not need rebar. Rebar is required on any compacted fill regardless of composition.
2) All interior piers are 8"x16" CMU up to a maximum height of 32". All piers over 32" high must be filled with Type S mortar. Maximum height for 8"x16" filled pier is 6'-0". Piers larger than 8"x16" are noted on plans and must be filled with Type S mortar. For one-story structures, pier caps are to be 4" solid masonry. For two-story structures, pier caps are to be 8" of solid masonry.
3) Footings for 8" x 16" piers are 24"x32"x10" unless noted otherwise. Reinforcing is to be as noted on plans.
4) Interior thickened slab footings which occur in basements and 'slab on grade' floors are 10" deep by 16" wide w/2-#4 reinforcing bars running continuously unless noted otherwise. Thickened footings are required under all bearing walls.
5) All rebar splices shall be a minimum of 2'-0" lap unless otherwise noted.
6) Shallow foundations are designed for an assumed soil bearing capacity of 2,000 psf. The contractor is responsible for notifying the Engineer of Record if any soils are found to be unsuitable for this bearing capacity. The contractor is responsible for obtaining soil testing to ensure that the bearing capacity of the soil meets or exceeds this value. All fill is to be compacted to 95% density as measured by the Standard Proctor Test (ASTM D-698).
7) All soils and fill under floor slabs and/or within crawl and basement areas shall receive pre-construction soil treatment for protection against termites. Certification of Compliance shall be issued to the Building Department by a licensed pest control company.
8) All footing excavations shall be neat, straight, and level in the proper elevations to receive the concrete. Excessive variations in the dimensions of footings or slabs will not be permitted. Reinforcing steel and dowels shall be accurately placed and supported to maintain their position during the concrete pouring. Edge forms shall be used for concrete that will be exposed.
9) All slab penetrations are to be the responsibility of the contractor. Penetrations interfering with reinforcing shall be approved by the Engineer of Record prior to the placement of concrete.
10) Elevations differences between the bottoms of adjacent footings shall be less than their horizontal distance less one foot. Differences in footing heights shall be accomplished as stepped footings usually where a pier footing in a crawlspace or garage footing is next to a basement wall footing.

SPECIAL FOUNDATION CONSIDERATIONS:

1) Waffle labs are self-supporting slabs reinforced according to details and do not require firm soil for support. Soil must be capable of supporting concrete until it hardens and develops strength.
2) Caisson foundations shall be a minimum of 12" diameter drilled unreinforced concrete caissons. Caissons shall extend to a minimum depth providing 2' penetrations into good original ground. Depth of drilling is limited to 15'. Therefore, no pole material more than 12' deep or with water in drilled caisson hole. A caisson cannot be used if water rises immediately into a drilled hole. Piles will have to be used in such cases.
3) Treated wood piles with a minimum diameter of 6" and a minimum design load of six tons are used for all foundations with unsuitable soil deeper than 15' or with water in drilled caisson holes. Drive per North Carolina or South Carolina Code.
4) Sizes and reinforcing for footing caps over caissons or piles shall be as shown on plans.
5) Chimney footings are to be 12" larger than the chimney footprint and a minimum of 12" thick.
6) Foundation wall backfilled with dirt which support structural framing shall be constructed as follows:
   A) For earth fill up to maximum height of 4' Use 8" CMU or 8" Brick with Bituthene membrane waterproofing on exterior. Footings are to be 8"x16" or 8"x24" as noted on the plan.
   B) For earth fill 4' to a maximum height of 9'. Use 8" x 24" footing with #4 at 16" dowels hooked in footing and projecting 18" above footings. Use 12" CMU walls with #4 at 16" vertical have located 4" from non-dirt fill face. lap all splices 12" and use Dur-o-wal horizontal reinforcing every 8" in CMU joints. Install 1-#3 L-bar with 24" legs in every other joint horizontally at all corners i.e., #3 corner bars at 16" O.C. vertical. Fill all open cells of CMU with either Type S or M mortar or fill with 3,000 psi concrete. Install waterproof Bituthene membranes or equal.
   C) In lieu of the preceding design, basement walls may be constructed in accordance with R404.1 of the Code. However, 24"x24"#3 corner bars shall be installed at 16" O.C vertically regardless of the wall length. EXCEPT ON ENGINEERED DRAWINGS
7) For retaining walls without framing see special design drawings.

FRAMING CONSTRUCTION - OTHER THAN ROOF

1) See Table R602.3(1) of the Code for a fastener schedule for structural members
2) Wood beams shall be supported by metal hangers of adequate capacity where framing into beams or ledgers. The allowable load capacity of the hanger shall be equal or greater than the load specified on the plan. Where no load is specified, the "lightest" available hanger for the application is acceptable.
3) Gravel girders and band with 4" mortain wall and pier construction shall be 2-2x10 Southern Pine #1 unless noted otherwise. Maximum clear span shall be 6'-0" (girder O.C. spacing 48 piers). To avoid objectionable cracking in finished hardwood floors over any girders, use the following procedure:
   A) Nailing
      a) All floor joists must be toe-nailed to their support girders with a minimum of 3-8d nails at each end. Larger nails will split and toe-nail ineffective. No end nailing through the girder or band is permitted.
      b) If dropped girders are used, end lap all joists and side nail each with a minimum of 3-16d nails at each end of the each joist. Ledger strips should be spaced 3" apart and nailed with 3-16d nails at each joint end.
      c) Nail multiple member built-up girders with two rows of 16d nails staggered at 32" O.C., 2" down from the top and 2" up from the bottom with 3-16d nails at each end of each piece in the joist through the members making up the multiple member girder.
      d) This nailing pattern will ensure a tight floor from the outside of the house to outside so that when the framing shrinks during the first heating season the shrinkage will be uniformly distributed over the entire floor. If the girder nailing pattern is omitted, then the shrinkage will accumulate over the girders and an objectionable crack will develop in the finished hardwood floor over the girder line.
   B) At all girders where the joists change direction, install bridging at 6' O.C. for a minimum of six joist spacings beyond any joist direction change. This will ensure shrinkage distribution over the floor and not let it accumulate at the girder.
   C) There must be wood blocking thru-bolted to the steel beam with joists toe-nailed or attached to the beam with metal hangers under any hardwood floors that pass over a steel beam supporting floor joists. This condition often exists over basement areas.
4) All other lumber may be #grade #2 unless noted otherwise.
5) Steel beams must have 5-2x4 stud jacks under each end support unless noted otherwise.
6) "Lam" beams must have 3-2x4 stud jacks under each end support unless noted otherwise.
7) Masonry Lintels:
   A) For spans up to 6', use 3½"x3½"x1/4" steel angles.
   B) For spans from 6' to 10', use 5"x3½"x5/16" steel angles.
   C) For spans from 9' to 15'. Use a pair of 9-gauge wires in each of the first 3 courses of brick on a 5"x3½" x 5/16" steel angle. Lap all 9-gauge wire splices a minimum of 12" and extend wires a minimum of 12" into jambs. Temporarily support the steel angles before laying masonry. The shoring may be removed five days following the installation of masonry.
   D) When structural steel beams with bottom plates are used to support masonry, the bottom plate must extend the full length of the steel beam. This provides support to the ends of the plate by bearing on the adjacent masonry jambs. The beam should be temporarily shored prior to laying the masonry. The shoring may be removed five days after laying the masonry.
8) All brick veneer over lower roofs (brick clinkit) must have a structural angle leg screwed to an adjacent stud wall in accordance with detail. with steel brick stops to prevent sliding of brick.
9) All rafter braces must have two studs from plate through all floors to the foundation or supporting beam below. No braces shall be attached to top wall plate without studs directly under them.
10) Where partition falls between floor joists or trusses, 2x4 ladders at 16" O.C. must be placed perpendicular to the joist to support the plywood decking. The ladders shall be supported with Simpson "Z" Clips or similar device.
11) All wood I-Joists and open joists must be braced in accordance with the manufacturer's directions plus details shown on the plans. Load-bearing partitions, jacks, beams and column supports must be solid blocked through the foundation. Trusses and plywood shall not carry concentrated point loads. I-Joist material should not be used as blocking under concentrated point loads. All point loads must be carried to foundations with adequate blocking and/or beams.
12) All steel columns where steel columns bear on concrete or masonry, unless otherwise noted, a 8/8"x8½"x8½" or 8/8"x8½"x8" base plate shall be used to spread the column load across the bearing surface. Base plates shall be bolted with at least two ½" diameter anchor bolts or expansion bolts to concrete or masonry.
13) Unless noted otherwise on plans, all exterior facing wall studs taller than 10' shall be constructed as follows.
   A) Walls 10' to 12' high Balloon frame 2 x 4 studs at 12" o/c with ½" OSB sheathing and 3 king studs on each side of each opening, nailed securely to the header.
   B) Walls 12' to 20' high. Balloon frame 2 x 6 studs at 16" o/c (½" OSB sheathing required for wall height > 17'). Provide 3-1 ¾" x 9 ¼" LVL king studs on each side of openings 3' to 6' wide and 4-2 x 6 king studs for openings more than 6' wide. Fasten king studs securely to all headers with a minimum of 12-16d nails or 4-3/8" diameter lag screws embedded a minimum of 4" into the header.
   C) Gable end walls or rooms with vaulted ceiling joists: Balloon frame wall and provide triple king stud on each side of openings, nailed securely to the header.
   D) Two-story high foyer walls less than 9' wide: Extend 3 ½" x 9 ¼" PSL member with 3-2 x 4 flat plates across the entire wall. Locate the beam near mid-height of the wall at or near first floor top plate.
   E) NOTE: SEE SPECIAL DESIGN BY ENGINEER FOR WALLS TALLER THAN 20'. WHEN OPENINGS IN HIGH WALLS EXCEED 6' IN WIDTH, OR IF THE WALL CANNOT BE CONSTRUCTED USING ANY OF THE METHODS MENTIONED.
14) Continuous 2x6 bridging shall be nailed to diagonal or vertical web members of all open-web floor trusses over 10' long. They shall be installed near mid-span as a load distribution member. If the 2x6 bridging is not continuous, lap ends of bridging one truss space.
15) Lower stud walls for building over two stories, but not more than three stories:
   A) Interior walls
      a) Load bearing: 2x4 @ 12" O.C
      b) Non-load bearing: 2x4 @ 12" O.C
   B) Exterior walls: 2x6 @ 16" O.C. w/Continuous ½"x4'x8' Plywood Sheathing
16) Headers shall per the list unless noted otherwise on the plans.
   A) Interior and exterior
      a) Spans up to 2'-6": 2-2x6
      b) Spans from 2'-6"-3'-6": 2-2x8
      c) Spans from 3'-6"-6'-6": 2-2x10
      d) Spans 6'-6" or more: See Plan
   B) Headers wider than 6'-0" shall have a minimum of three (3) king studs at each end unless noted otherwise.
17) Where ceiling joists are parallel to an exterior wall, tie the rafters near the top plate to ceiling joists with a 2 x 6 strong-back a minimum of 6'-0"long at 4 feet on center across the top of the ceiling joists. 2 x 4 rafter ties shall be fastened to the side of the rafter and the strong-back.
18) At all exterior diagonal wall panels, each panel shall be nailed to each adjacent panel with 8-16d nails or bolted together with metal strapping nailed at four locations to wall floors with a minimum of 2-16d nails into each panel at each strap. This will avoid vertical cracking in panel joints due to horizontal oscillating panels.
19) At all stairs, every stud at each stringer must be nailed to each stringer with a minimum of 2-16d nails. This will avoid cracking between wallboard and top of base molding due to vertical oscillation of stair stringers.
20) Roof trusses that have non-bearing partitions passing under them should be nailed to the partition plates to avoid ceiling-wall cracking.
21) Roof trusses close to side walls framing and used as dead wood for sheetrock boards should be nailed to the wall framing to prevent ceiling-wall cracking.
22) All structural framing lumber exposed directly to the weather or bearing directly on exterior masonry piers or concrete shall be treated. All wood in contact with the ground is to be ground-contact pressure. All wood exposed directly to the weather shall be protected to prevent the occurrence of rot.
23) Unless otherwise detailed, all stick-built "false chimneys" shall be constructed with 2 x 4 studs at 12" o/c, ballon-framed from attic ceiling or floor. Fasten 15/32" CDX plywood on all sides of the chimney along the full length of the studs. Fasten each stud to the supporting beam or ceiling joist with a 1 ¼" x 24". 18-gauge metal strap, or a similar connector.
24) Item unchanged, but moved from under #16 on old Page 2:
   A) ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS — WHETHER POST OR STEEL OR CANTILEVER BEAM ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION.
25) Note to apply to all hard coat stucco exterior finishes:
   A) Joints are necessary at the following locations:
      a) Horizontally at each floor line.
      b) No areas larger than 144 S.F. surface exposed.
      c) No dimensions longer than 18'
      d) No dimensions long than 2 1/2 times the shortest dimension.
   B) Drip screed required at the bottom of all walls 2" above paved areas and 4" above grade.
   C) See ASTM 926 and 1063 for further information.
   D) Application of an approved chemical curing compound.
   E) The curing shall continue until the cumulative number or days the ambient temperature above 50°F has totaled seven. During curing, the concrete shall be protected from any mechanical injury, load stresses, shock, vibrations, or damage to finished surface.

ROOF CONSTRUCTION:

1) All roof trusses must be built in accordance with truss manufacturers' requirements. Re-down connections to resist uplift shall be installed where required. When roof truss manufacturers do not provide the required connectors, it is the responsibility of the contractor to notify the roof truss engineer or the Engineer of Record to provide an adequate connector.
2) In addition to the Code's fastener schedule, unless noted otherwise on the plan, roof members shall be tied down with additional metal connectors as follows:
   A) Ridge-framed rafter members exceeding 10' in length, as measured from their horizontal projection, and all roofs over unenclosed areas such as porches use Simpson H2.5 connectors every 4' or at every third rafter to fasten the lower end of the rafter to the top plate.
   B) All hip and valley and hip members which bear on a top plate use a Simpson HDP or equivalent connector.
3) Rafters shall be 2 x 6 at 16" o/c spruce-pine-fir #2 for shingles except as noted. They are to be cut into hips, ridges, etc. unless noted otherwise. Tile, slate and other heavy roof coverings shall use 2 x 8 at 16" o/c spruce-pine-fir #2 rafters unless noted otherwise.
4) Collar ties shall be 2 x 6 at 48" o/c at all ridges unless noted otherwise and located a nominal 9' below the ridge. Vaulted ceilings require special collar tie or ridge beam details. See the end of Table R802.5.1. of the Code unless otherwise detailed on the plan.
5) A minimum of three collar ties shall be used at all ridges even if two ties must be put on one set of rafters.
6) All hips and ridges are a size larger than rafters unless noted otherwise.
7) All hegs on ceiling joists or rafters are 12" long and 2 x 6's unless noted otherwise. Rafters may be spliced at ridge only at a roof brace.
8) Gable end framing must be braced parallel to ridges with a minimum of 2 x 6 diagonal braces at 6' o/c along the gable wall to interior ceiling joists. Braces to bear on 2 x 6 hegs and to the gable wall at approximately mid-height of gable walls. Braces shall be at an angle of approximately 45°. Other bracing may be used with the design engineer's approval.
9) Gable end framing must be braced parallel to ridges with a minimum of 2 x 6 diagonal braces at 6' o/c along the gable wall to interior ceiling joists. Braces to bear on 2 x 6 hegs and to the gable wall at approximately mid-height of gable walls. Braces shall be at an angle of approximately 45°. Other bracing may be used with the design engineer's approval.
10) Ceiling joists when erected parallel to rafters must be fastened to rafters and nailed with 3-16d nails at each rafter. If a inner-wall is used and ceiling joists cannot touch rafters, then rafters must be tied to the ceiling joists using 2 x 4 or 1 x 6 rafter ties spaced no more than 4" on center.
11) Roof Plan Legend:
   A) Indicates location of roof brace point at rafter level
   B) @= Arrow away from the brace point indicates direction of roof brace to partition, beam, or other brace point below.
   C) @= Arrow into brace point indicates a vertical or almost vertical roof brace to partition, beam, or other brace point below.
   D) All roof braces are 2-2 x 4 nailed with 16 penny nails at 9" o/c vertically from top to bottom. Brace longer than 10' must be braced horizontally in two directions at mid-height.
   E) Maximum spaging of roof braces is to be as follows:
      a) For 2 x 6 Hog: 6'-0" O.C.
      b) For 2 x 8 Hog: 7'-6" O.C.

MATERIAL SPECIFICATIONS

CONCRETE GENERAL NOTES:

1) Except where otherwise noted, for all concrete, the proportions of cement, aggregate, and water to attain required plasticity and compressive strength shall be in accordance with ACI 318 Code. Concrete shall be 2,500 psi in 28 days for footings and 3,000 psi for walls, beams, and columns, unless noted otherwise.
2) Before placing concrete, all debris, water and other deleterious material shall be removed from the places to be occupied by the concrete. The placing of all concrete shall be in accordance with ACI 318 and ASTM C94 requirements. Pumping of concrete will be permitted only with the Engineer of Record's approval of proposed concrete mix and method of pumping. Concrete shall be rapidly handled from the mixer to forms and deposited as nearly as possible to its final position to avoid segregation due to rehandling. Concrete to be spaded and worked by hand and vibrated to assure close contact with all surfaces of forms and reinforcing steel and leveled off at proper grade to receive finish. All concrete shall be placed upon clean, damp surfaces. Vibration shall be applied directly to the concrete and shall be sufficient to cause flow of settlement but not long enough to cause segregation of the mix.
3) Construction joints shall be located in accordance with ACI 301. All reinforcing steel shall be continuous across joints. In slabs on grade, saw contraction joints shall not be over 20 feet center to center each way. Joints shall be saws a depth of one-third of the slab thickness. Sawing of the joints shall commence as soon as the concrete has hardened sufficiently to permit sawing without excessive raveling. Fill the saw cuts with approved joint filler after the concrete has cured.
4) Concrete, when deposited, shall have a temperature not below 50°F and not above 90°F. The methods and recommended practices as described in ACI 306 shall be followed for cold weather concreting and ACI 305 for hot weather concreting.
5) Freshly placed concrete shall be protected from premature drying by one of the following methods:
   A) Ponding or continuous sprinkling.
   B) Absorptive mat or fabric kept continuously wet.
   C) Waterproof paper conforming to ASTM C171
   D) Application of an approved chemical curing compound
   E) The curing shall continue until the cumulative number or days when the ambient temperature above 50°F has totaled seven. During curing, the concrete shall be protected from any mechanical injury, load stresses, shock, vibration, or damage to finished surfaces.
6) Reinforcing steel bars shall be deformed in accordance with ASTM A305 and or A408 and formed of ASTM A615-78 Grade 60 steel. Welded wire fabric reinforcing to be ASTM A185 steel wire. Accessories shall conform to the CRSI "Manual of Standard Practice." The following minimum concrete cover shall be provided over reinforcing bars:
   A) Exposed to Earth: 3"
   B) Exposed to Weather: 1½"
   C) Slabs not Exposed to Weather: ¾"
   D) Beams and Columns: 1½"

MASONRY GENERAL NOTES:

1) Masonry walls are to be of the sizes and in the locations shown on the plans and shall be constructed in accordance with the provisions of ACI 530.
2) Hollow Load Bearing Units: ASTM C90 made with lightweight or normal weight aggregates. Grade N-1 units shall be provided for exterior and foundation walls. Grade N-1 or S-1 units shall be provided for other load-bearing walls or partitions.
3) Concrete Building Brick: ASTM C55 made with lightweight or normal aggregates. Grade N-1 or S-1 except that brick exposed to weather shall be N-1.
4) Mortar: ASTM C270-68, Type S prepackaged mortar mix which shall not contain any non-cementitious fillers combined with not more than three parts sand per on part mix.
5) Reinforcing Steel: ASTM A615 Grade 60 steel deformed bars where indicated on the plans. Where reinforcing bars are installed in the cells of concrete masonry units, they shall be secured with wire ties at intervals not exceeding 24" o/c to maintain the bars location in the cell. The tolerance for spacing of vertical bars is ± 2 inches along the length of the wall. The tolerance for the distance between the face of the concrete masonry unit and the center of the bar shall not exceed ± ¼".
6) Mortar protrusion shall be less than ½". A protrusion of ½" or greater must be removed before grouting.
7) Horizontal Joint Reinforcement: ASTM A82 fabricated from cold drawn steel wire and hot dip zinc coated (ASTM A153). It shall consist of two or more parallel, longitudinal wires 0.1875" in diameter with welded cross wires 0.1483" in diameter at a maximum of 16" spacing. Reinforcement is to be installed in every other course and in the first two courses at the bottom and top of wall openings and shall extend not less than 24" past the opening. Splices shall overlap not less than 12".
8) Execution: Masonry units shall be laid in a running bond pattern unless noted otherwise. The walls shall be carried up level and plumb within the tolerances specified in ACI 530.1-98. Section 2.3.2.2 "Accommodation" dimensions are encountered, block shall be cut with a masonry saw to fit, not by stretching or shrinking joints. Unfinished work shall be stepped back for joining with new work. Tootching will not be permitted except where specifically approved. Damaged units are to be cut out and new units set in place.
9) The filled cells and bond beam blocks of reinforced masonry walls are to be filled with ASTM C476-91. Grout for Masonry with minimum compressive srtess of 2,000 psi and slump range or 8" to 11". Remove all mortable fins of the bottom block of each cell it to be broken out for inspection of reinforcing and clean out of mortar droppings in cell. The grout is to be pumped into the cell in maximum five foot lifts and immediately vibrated to minimize any voiding of the grout. Reconsolidate after the last lift by vibrating several inches into the preceding lift before plasticity is lost. Reconsolidate the top lift and fill with grout any space left by settlement shrinkage.

LUMBER GENERAL NOTES:

1) All common framing lumber is to meet the following minimum specifications at 19% moisture content:

MATERIAL	Fb (Psi)	Fv (Psi)	Ec (Psi/Emp)	E (Psi)
#2 Spruce Pine Fir	875	450	425	1,400,000
Southern Pine	750	450	565	1,400,000

2) All structural composite lumber (LVL, LSL, PSL) is to meet the following minimum specifications:

APPLICATION	Fb (Psi)	Fv (Psi/Parallel)	Ec (Psi/Emp)	E (Psi)
Girders & Beams	2,600	285	660	1,800,000
Columns (LSL) & Rimboard	1,700	1,400	400	1,300,000

3) All glue-laminated timber (Glu-Lam) is to meet the following minimum specifications:

APPLICATION	Fb (Psi)	Fv (Psi/Parallel)	Ec (Psi/Emp)	E (Psi)
Girders & Beams	2,400	1,700	740	1,700,000
Columns (LSL) & Rimboard	1,600	1,550	560	1,500,000

4) Open web floor trusses:

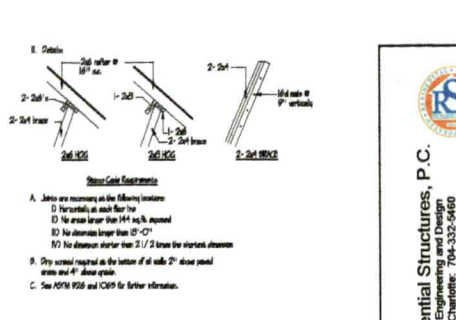
APPLICATION	Fb
Top & Bottom Chord	2,600
Column (LSL) & Rimboard	900

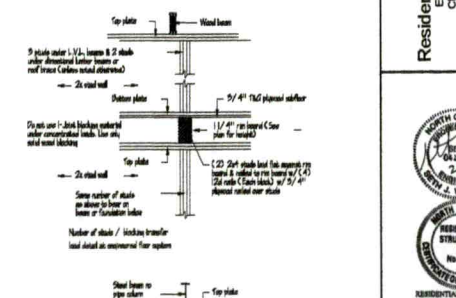
1.9E MSR Lumber
1.9E Lumber

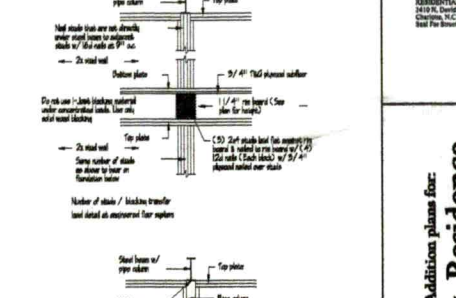
5) Where three or four-ply "Lam" beams are side-loaded (joists frame into the side at the outside plies), fasten all plies together with two rows of ½" diameter bolts at 16" o/c. The bolts shall be located a minimum of 2 ½" and a maximum of 3 ½" from the top or bottom of the beam.
6) Built-up wood columns consisting of multiple studs shall have each lamination nailed with 16d nails at 9" o/c.

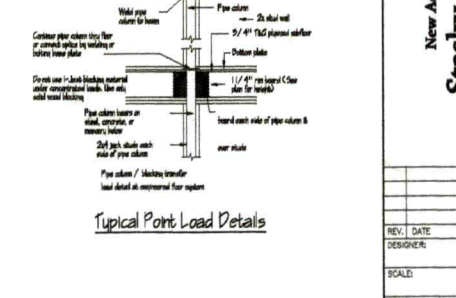
STEEL GENERAL NOTES:

1) All steel wide flange beams shall conform to ASTM A572 having a minimum yield stress of 50,000 psi.
2) All steel pipes shall be Schedule 40 or better with a minimum yield stress of 35,000 psi.
3) All steel tubes shall conform to ASTM A500, Grade B, having a minimum yield stress of 46,000 psi.
4) All other shapes not listed above shall conform to ASTM A36 having a minimum yield stress of 36,000 psi.
5) Unless otherwise noted, all welds shall be fillet type with a minimum 3/16" leg. Welding electrodes shall be E70xx type having a minimum yield strength of 70,000 psi. Welding work and materials shall conform to the American Welding Society Code (AWS D.1).
6) Bolted connections shall include high strength bolts conforming to ASTM A325. Foundation anchor bolts or tie rods shall conform to ASTM A36 having a minimum yield strength of 36,000 psi.









Typical Point Load Details

Residential Structures, P.C.
Engineering and Design
Charlotte: 704-332-5460
Charleston: 843-406-7174
Myrtle Beach/Florence: 704-301-9521
www.residentialstructurespc.com

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036189 JOSEPH J. WHEELER
NORTH CAROLINA RESIDENTIAL STRUCTURES PC No. 2205
RESIDENTIAL STRUCTURES, P.C.
2410 N. Davidson St.
Charlotte, N.C. 28205
Seal For Structural Only

New Addition plans for:
Stasky Residence
140 Seagrove Lane, Mooresville, NC

REV.	DATE	DESCRIPTION

DESIGNER: PRS
SCALE:
DATE:

GENERAL NOTES

SHEET: GN1/S1

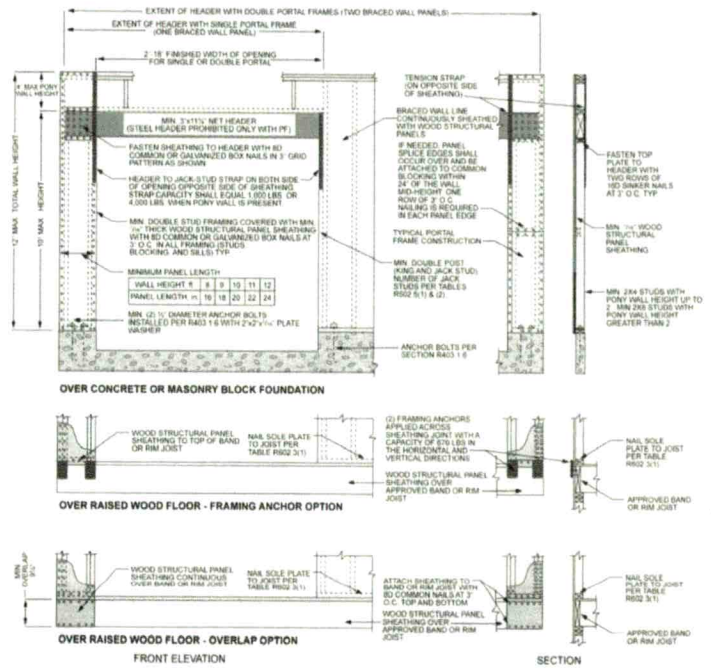
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For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 lb = 4.45 N.

FIGURE R602.10.1
METHOD PF—PORTAL FRAME CONSTRUCTION

1/S-3 PORTAL FRAME DETAIL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 038306 RICHARD J. WHEELER

NORTH CAROLINA RESIDENTIAL STRUCTURES PE No. 3255 CERTIFICATE OF AUTHORIZATION

RESIDENTIAL STRUCTURES, P.C.
2410 N. Davidson St.
Charlotte, N.C. 28205
Steel Pile Structures Only

U.S. HOME DESIGNS, INC.
2025 Hazelwood Dr., Hiawatha, NC 28625 Phone: 704-359-0702
Designer: Roger W. Tinsley
www.ushomedesigns.com

New Addition plans for:
Stasky Residence
140 Seagrove Lane, Mooresville, NC

PORTAL FRAME DETAIL

2-15-22

SHEET No. S-3

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PERMIT TO INSTALL SEPTIC TANK

mit NO. _____ Permit Date 5 Aug 1969

er S. L. Eddleman Address Kanapolis, NC

talled By Hubbard Address Kanapolis, N.C.

ation of Property Holiday Harbour Lot # 18

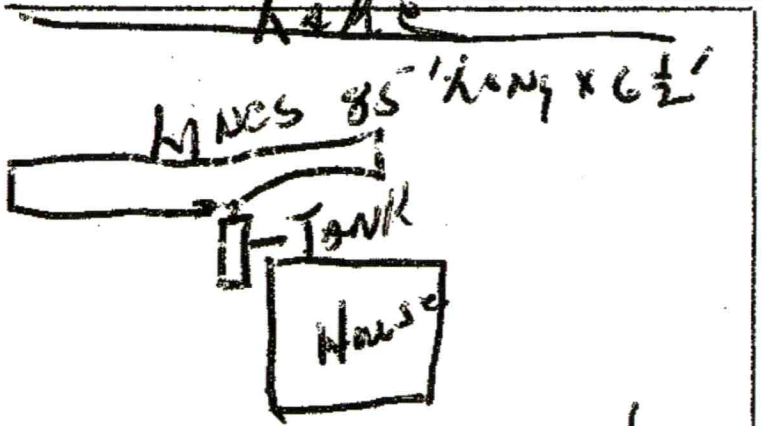
4626526086

Tank		Capacity		Length of Lines		Fixtures	
ck	( )	1000	(✓)	225'	(✓)	No. of Baths	( )
cast	(✓)	1250	( )	250'	( )	Dishwasher	( )
		1500	( )	Other _____		Garbage Grdr.	( )
		Other _____				Other _____	

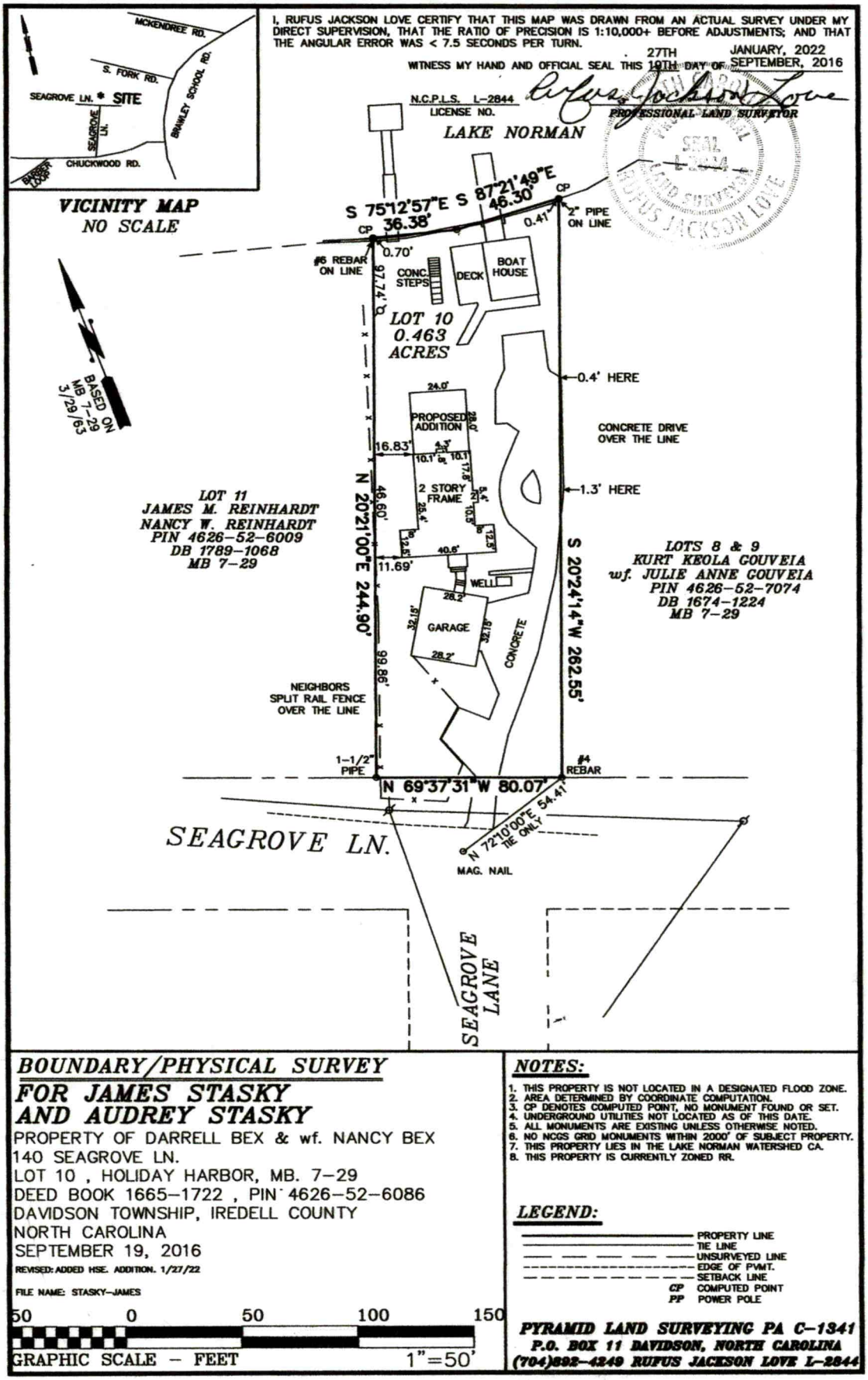
IFY HEALTH DEPARTMENT AT LEAST EIGHT HOURS BEFORE TANK IS TO BE INSPECTED.

al Inspection 5 Aug 1969 Approved (X) Disapproved ( )

arks Lake



D. M. Scoggins



BOUNDARY/PHYSICAL SURVEY

FOR JAMES STASKY AND AUDREY STASKY

PROPERTY OF DARRELL BEX & wf. NANCY BEX
140 SEAGROVE LN.
LOT 10 , HOLIDAY HARBOR, MB. 7-29
DEED BOOK 1665-1722 , PIN 4626-52-6086
DAVIDSON TOWNSHIP, IREDELL COUNTY
NORTH CAROLINA
SEPTEMBER 19, 2016
REVISED: ADDED HSE. ADDITION. 1/27/22

FILE NAME: STASKY-JAMES

50 0 50 100 150
GRAPHIC SCALE - FEET 1"=50'

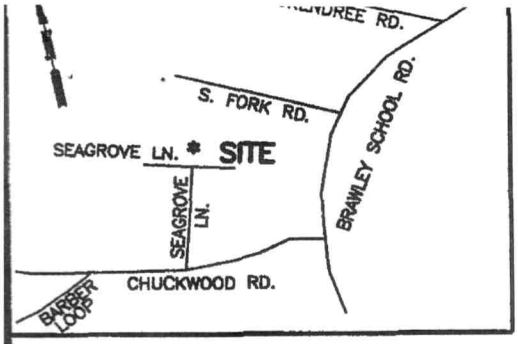
NOTES:

1. THIS PROPERTY IS NOT LOCATED IN A DESIGNATED FLOOD ZONE.
2. AREA DETERMINED BY COORDINATE COMPUTATION.
3. CP DENOTES COMPUTED POINT, NO MONUMENT FOUND OR SET.
4. UNDERGROUND UTILITIES NOT LOCATED AS OF THIS DATE.
5. ALL MONUMENTS ARE EXISTING UNLESS OTHERWISE NOTED.
6. NO NCGS GRID MONUMENTS WITHIN 2000' OF SUBJECT PROPERTY.
7. THIS PROPERTY LIES IN THE LAKE NORMAN WATERSHED CA.
8. THIS PROPERTY IS CURRENTLY ZONED RR.

LEGEND:

PROPERTY LINE
TIE LINE
UNSURVEYED LINE
EDGE OF PVMT.
SETBACK LINE
CP COMPUTED POINT
PP POWER POLE

PYRAMID LAND SURVEYING PA C-1341
P.O. BOX 11 DAVIDSON, NORTH CAROLINA
(704)892-4249 RUFUS JACKSON LOVE L-2844



VICINITY MAP
NO SCALE

DIRECT SUPERVISION, THAT THE RATIO OF PRECISION IS 1:10,000+ BEFORE ADJUSTMENTS; THE ANGULAR ERROR WAS < 7.5 SECONDS PER TURN.

WITNESS MY HAND AND OFFICIAL SEAL THIS 19TH DAY OF SEPTEMBE

N.C.P.L.S. L-2844
LICENSE NO.

PROFESSIONAL LAND SURVEYO

NORTH CAR
SEAL
L-2844
PROFESSIONAL
LAND SURVEYOR
RUFUS JACKSON LO

LAKE NORMAN

S 75°12'57"E 36.38'

S 87°21'49"E 46.30'

CP

0.41' 2" PIPE ON LINE

CP 0.70'

#6 REBAR ON LINE

97.74'

CONC. STEPS

DECK

BOAT HOUSE

LOT 10
0.463
ACRES

DECK

0.4' HERE

CONCRETE DRIVE OVER THE LINE

12.63'

4.3' 10.1' .8' 10.1' 17.8' 5.4' 2.1' 10.5' 8' 12.5'

2 STORY FRAME

25.4'

46.60'

1.3' HERE

N 20°21'00"E 244.90'

40.6'

11.69'

WELL

28.2'

32.15'

GARAGE

32.15'

28.2'

CONCRETE

S 20°24'14"W 262.55'

99.86'

NEIGHBORS SPLIT RAIL FENCE OVER THE LINE

LOT 11
JAMES M. REINHARDT
NANCY W. REINHARDT
PIN 4626-52-6009
DB 1789-1068
MB 7-29

LOTS 8 & 9
KURT KEOLA GOUVE
wf. JULIE ANNE GOUV
PIN 4626-52-70
DB 1674-1224
MB 7-29

BASED ON MB 7-29 3/29/63

1-1/2" PIPE

#4 REBAR

N 69°37'31"W 80.07'

N 72°10'00"E 54.41' TIE ONLY

MAG. NAIL

SEAGROVE LN.

AGROVE LANE

original

T.W. Ammons Septic Service
www.AmmonsSeptic.com
215 Little Creek Road
Mooresville, NC 28115
(704) 663 - 7631

CUSTOMER'S ORDER NO.	PHONE	DATE
	704-779-3738	03/01/26

NAME Audrey Stasky

ADDRESS 140 Seagrove Lane
Mooresville, NC

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	PAID OUT	

QTY.	DESCRIPTION	PRICE	AMOUNT
	LOCATED DRAN FIELD NEXT TO PORCH.		
	#4898		
		TAX	
RECEIVED BY		TOTAL	300 00

1177

All claims and returned goods MUST be accompanied by this bill.

Thank You

Public Health
Prevent. Promote. Protect.
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
Prevent. Promote. Protect.
Iredell County Health Department

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

☑ **1. * APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*
In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

☐ **2.** I, _____, am the legal owner(s) of the property located at _____, identified as PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) _____, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

_____ _____
Signature of Owner(s) Date

Mooresville - Environmental Health

Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

***** Initial all lines below to indicate you have submitted each form and completed every site requirement *****

AW **Complete all Environmental Health forms**:

- ✓ Application
- ✓ Site Plan including the dimensions of proposed structure, addition, pool etc.
- ✓ Documentation to Authorize Owner Agent (even if the property owner is the applicant – complete section 1 or 2)
- ✓ Copy of Zoning Permit when applicable
- ✓ Sign this sheet after you have completed all items

AW NA **Lot must be cleared of heavy undergrowth.** In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with 50 feet of visibility in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

AS NA **Clearly mark all property corners by locating existing iron or concrete markers.** Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only). 'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged**.

AS **Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted**. The proposed structure, etc. must be staked out on the property as per the site plan.

____ **If an Authorization to Construct (AC) is desired,** submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application. *Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are nonrefundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.*

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.

- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- The applicant/agent is responsible for securing these services
- Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.
- The EH specialist will contact you when your application is ready to be processed for pit scheduling.
- Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work.

By signing below, I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature Andy Allen **Date** 4/5/2022

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625