AW

BLDR 2023-12615

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # AP 2022-6036

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

PIN # 4713 -- 86 -- 3840

APPLICANT/OWNER: Helmsman Homes LLC

APPLICANT ADDRESS: PO Box 3965, Mooresville 28117

SITE ADDRESS: 163 Greenwich Dr, Statesville 28677

PHONE: (980) 500-1251

ALT. PHONE: –

SITE DIRECTIONS: (1) Old Mountain, (2) Bethlehem, (3) Greenwich

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: The Landings

SECTION: – LOT # 34 LOT AREA: .49 AC

DESIGN FLOW: 360 L.T.A.R.: .3

Septic Tank 1000 (gal) STB 760 Date 5/15/23

Pump Tank 1000 (gal) PT 363 Date 5/15/23

Pump Make – Model – Serial # –

Nitrification Fields 1 # Lines 4 Linear Ft 200

Trench Width 36in Trench Bottom Depth (Max) 28in Gravel Depth N/A

☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: 50% Reduction - Horizontal - PM

Repair System Description: Drip Repair

Maintenance Agreement Required: ☐ YES ☑ NO

☐ GRAVITY ☑ PRESSURE

☑ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees –

☐ Slab ☑ Crawl Space

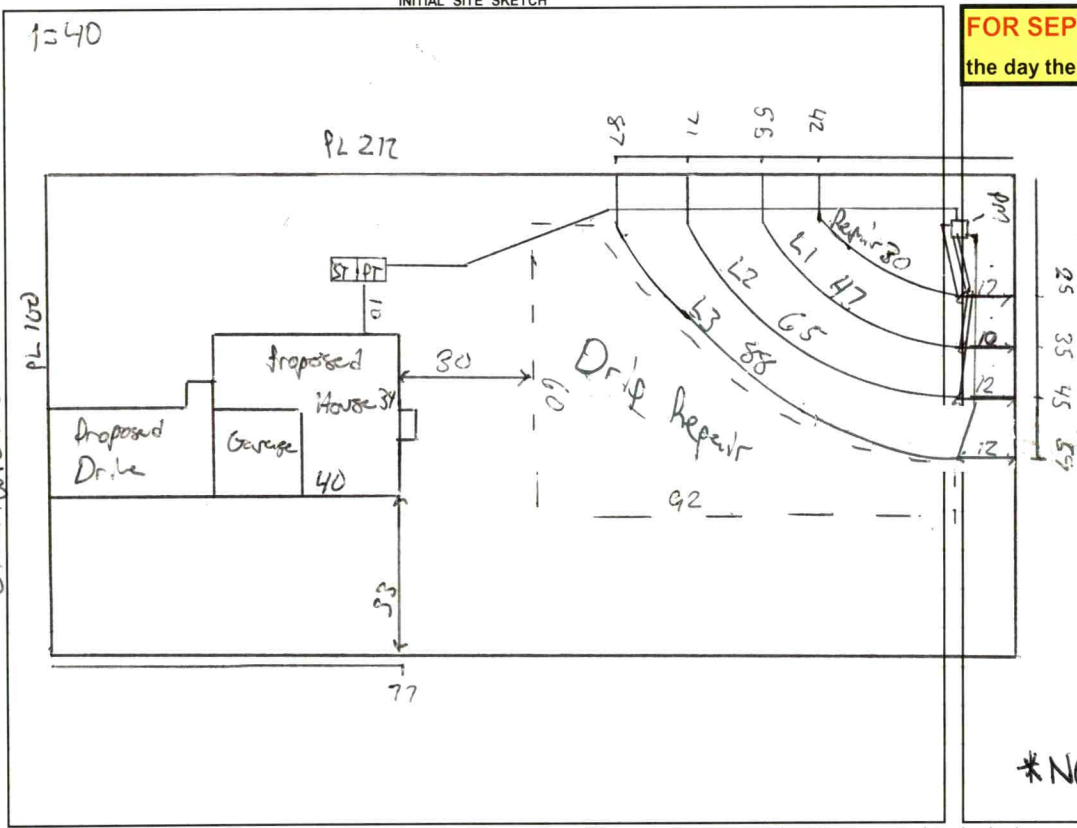
☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

Comments / Conditions: Install on contour with 4ft on center.
Do not drive, park, or construct on septic area.

INITIAL SITE SKETCH

1=40

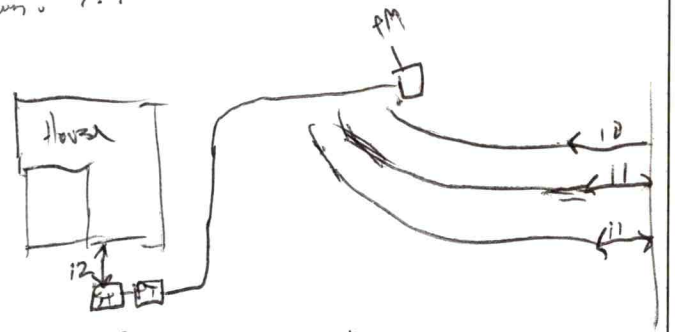


AS BUILT SKETCH

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.

Taps
L1: 1/2 sch 80 ∅ 5.48
L2: 1/2 sch 40 ∅ 7.11
L3: 3/4 sch 80 ∅ 10.1
Flow rate: 22.64
Volume: 166
Time: 7.3
Drawdown: 7.9

Checked
Tanks MW 6/28/23
Lines MW 6/28/23
Pressure SB 6/29/23
Manifold SB 6/29/23
Floats SB 6/29/23



NEEDS ALARM + ELECTRICAL SW 9/27/23

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: Bowen Septic

IMPROVEMENT PERMIT by: Matt Wiri Date: 10/25/22

OPERATION PERMIT by: Matt Wiri Date: 9/29/23

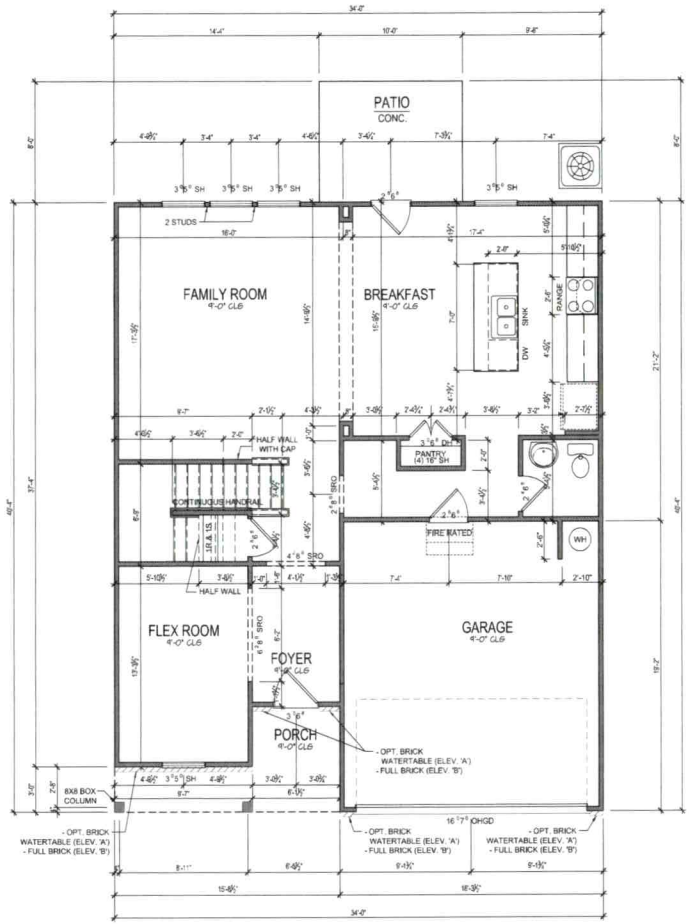
AUTHORIZATION TO CONSTRUCT by: Matt Wiri Date: 10/25/22

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:		

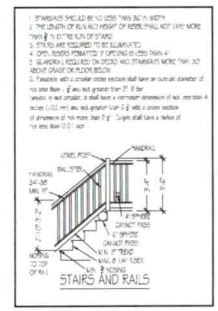
Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	



FIRST FLOOR PLAN

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

SQUARE FOOTAGE	
FIRST FLOOR (HEATED)	950
SECOND FLOOR (H EATED)	1169
TOTAL (HEATED)	2119
GARAGE (UNHEATED)	347
FRONT PORCH	76



ELEVATION "A" - FARMHOUSE

EST. 2020
HELMSMAN HOMES

Township/County

Engineer

Stamp/seal

Project name/owner
2119 FITS THE BILL PLAN

HELMSMAN HOMES
256 RACEWAY DR.
SUITE 2A
MOORESVILLE, NC 28117
PH: 704-208-4251

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Date
August 10, 2022

Drawn by

Reviewed by
HELMSMAN

Plan set scale
24X36 sheet
1/4" = 1'-0"
11X17 sheet
1/8" = 1'-0"

Project/plan code
XX.XX.XXXX

Drawing set
FOR CONSTRUCTION

Sheet title/description

Sheet no.
A-3.0A

Master plan version
H-1597-11-AUG

Acknowledgement Of
Plans Submittal ONLY!

Date 10/28/22

Date



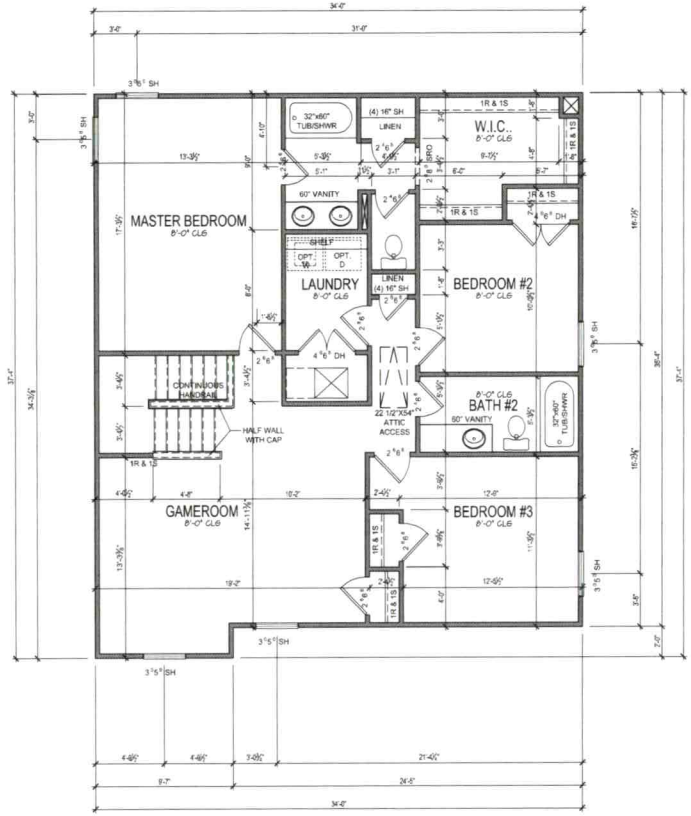
OPT. 4TH BEDROOM w/ GAMEROOM ILO GAMEROOM

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



OPT. 4TH & 5TH BEDROOM ILO GAMEROOM

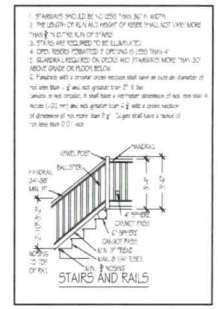
SCALE: 1/4" = 1'-0"



SECOND FLOOR PLAN

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

SQUARE FOOTAGE	
FIRST FLOOR (HEATED)	950
SECOND FLOOR (H EATED)	1169
TOTAL (HEATED)	2119
GARAGE (UNHEATED)	347
FRONT PORCH	76



ELEVATION "A" - FARMHOUSE

EST. 2020
HELMSMAN HOMES

Township/County

Engineer

Stamp/seal

Project name/owner

2119 FITS THE BILL PLAN

HELMSMAN HOMES
256 RACEWAY DR.
SUITE 2A
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PH: 704-208-4251

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Date
August 16, 2022

Drawn by

Reviewed by
HELMSMAN

Plan set scale
24x36 sheet
1/4" = 1'-0"
11x17 sheet
1/8" = 1'-0"

Project/plan code
XX.XX.XXXX

Drawing set
FOR CONSTRUCTION

Sheet title/description

Sheet no.
A-4.0A

Master plan version

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

Sheet 1 of 1
PROPERTY ID #: 4713863840
COUNTY: Iredell

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

OWNER: Holmsmen
ADDRESS: PO Box 3765 Mooresville 28117
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: 163 Greenwich
APPLICATION DATE: 10/4/22
DATE EVALUATED: 10/15/22
PROPERTY SIZE: .49 Ac
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)		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	
1	LS 10%	0-8	SCL/WSBK	SS Sp fr SE	-	40	Sap inclusions beg in ct 30	-	PS .3
		8-21	C/SBK	S p fr SE					
		21-40	CL/SBK	SS Sp fr SE					
		40+	Rock	-					
2	LS 8%	0-7	SCL/WSBK	" " " "	-	50	-	-	PS .3
		7-27	C/SBK	" " " "					
		27-50	CL/SBK	" " " "					
		50-60	Rock	-					
3	LS 12%	0-26	C/SBK	" " " "	-	26	Sap -	-	PS .125 Drip
		26+	Weathered Rock						
4	LS 8%	0-7	SCL/SBK	" " " "	-	24	-	-	PS .125 Drip
		7-24	C/SBK	" " " "					
		24+	Rock						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	50%	~~PS~~ Drip
Site LTAR	.3	.125

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Matthew W
OTHER(S) PRESENT: Paul P

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.

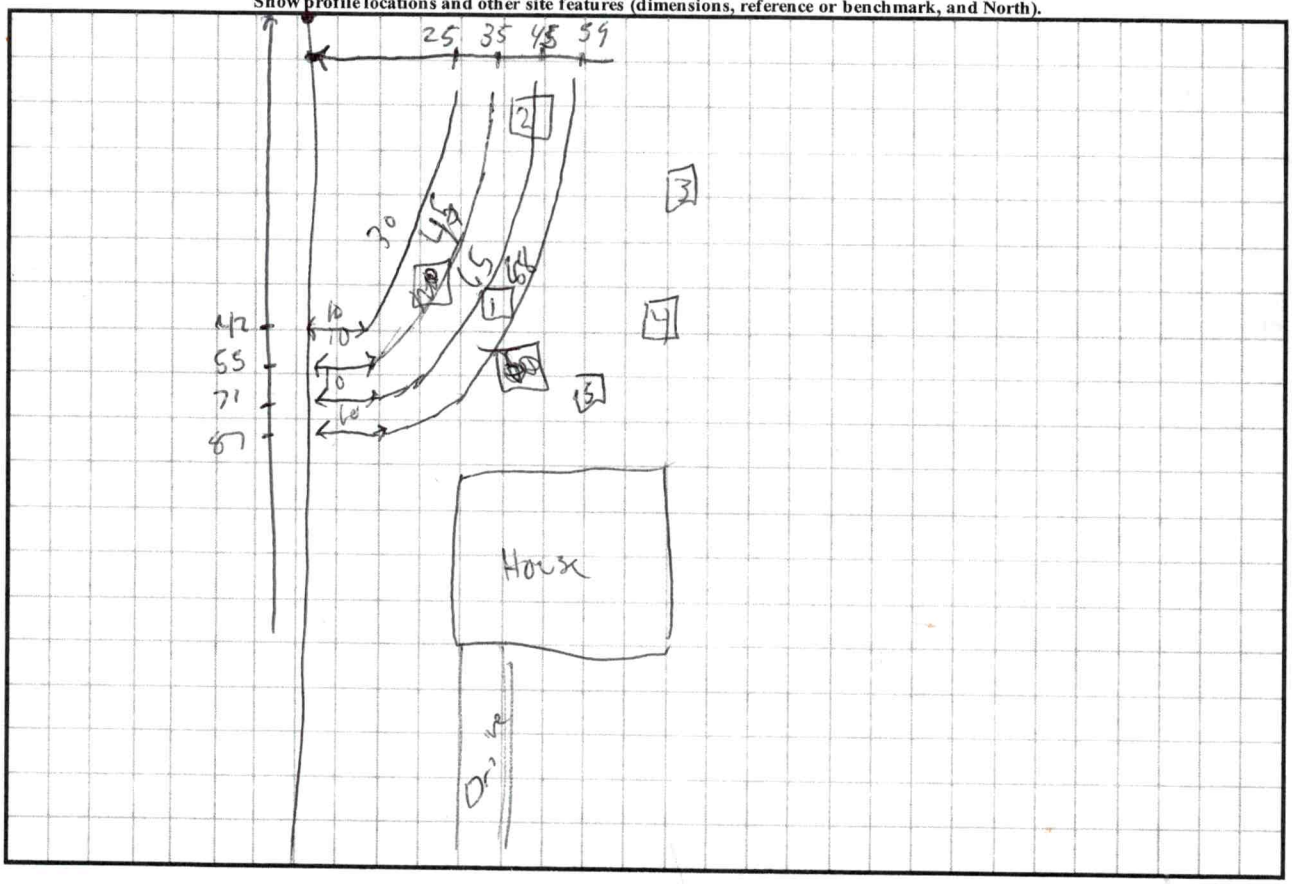
NOTES

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).



Upper left lot from road

5) 0-7 SZL (sap inclusions) PS
7-34 C at 50 (W Rock) -3
34-60 CL at 43

PRELIMINARY FOR REVIEW ONLY

* NOT AN ACTUAL SURVEY *

THIS PLOT PLAN WAS DRAWN FROM EXISTING PLATS AND/OR DEEDS AND A FULL SURVEY WAS NOT PERFORMED AT THIS TIME. ACREAGES AND DISTANCES ARE SUBJECT TO AN ACTUAL SURVEY. A FULL TITLE SEARCH HAS NOT BEEN PERFORMED.

163 Greenwich

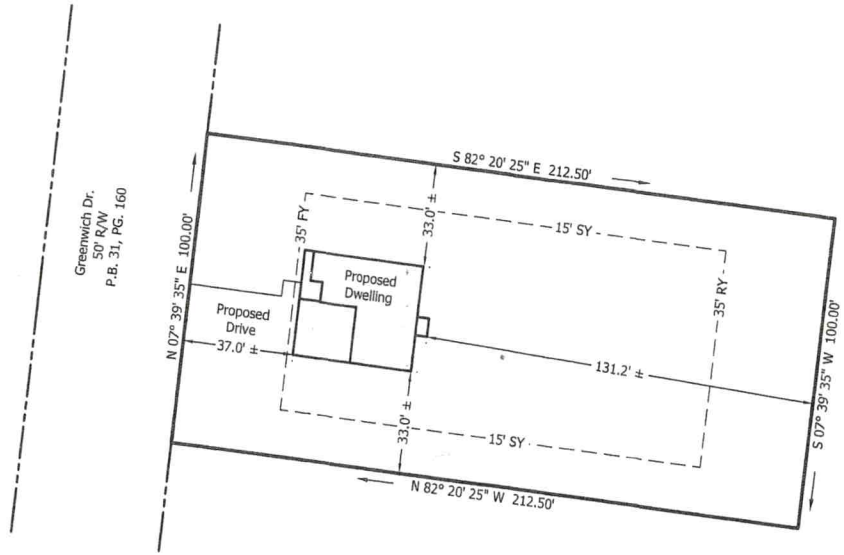
1"=40

NOTES:

BOUNDARY DATA WAS COMPUTED FROM DEEDS/PLATS AND A SURVEY HAS NOT BEEN PERFORMED AT THIS TIME.

APPROXIMATE STRUCTURAL/IMPERVIOUS COVERAGE:

APPROXIMATE PROPERTY AREA: 21,250 SF, 0.488 AC.
PROPOSED DWELLING AREA: 1,395 SF, 0.032 AC.
PROPOSED DRIVEWAY AREA: 707 SF, 0.016 AC.
APPROXIMATE STRUCTURAL COVERAGE: 1,395 SF, 0.032 AC, 6.56%
APPROXIMATE IMPERVIOUS COVERAGE: 2,102 SF, 0.048 AC, 9.89%



P.B. 31, PG. 160

0 40 80 120

SETBACKS:

PROPERTY CURRENTLY ZONED: RA (IREDELL COUNTY)

PROPERTY SUBJECT TO A 35' FRONT YARD (FY), 15' SIDE YARD (SY) & 35' REAR YARD (RY) AS PER P.B. 31 - PG. 160.

THE SUBJECT PROPERTY IS NOT IN A "SPECIAL HAZARD AREA" AS SHOWN ON HUD/FIA FLOOD INSURANCE RATE MAP COMMUNITY PANNEL NUMBER 3710470200K EFFECTIVE DATE 3/18/2008.

LEGEND	
FY	FRONT YARD SETBACK
RY	REAR YARD SETBACK
SY	SIDE YARD SETBACK
R/W	RIGHT OF WAY
P.B.	PLAT BOOK
PG.	PAGE

REFERENCE:

BEING ALL OF LOT 34 - THE LANDINGS SUBDIVISION - AS RECORDED IN P.B. 31, PG. 160 - IREDELL COUNTY REGISTRY.

PROPERTY IS SUBJECT TO RESTRICTIVE COVENANTS LISTED IN D.B. 1101 - PG. 1691, D.B. 1115 - PG. 129, D.B. 1166 - PG. 876, D.B. 1352 - PG. 1876, D.B. 2846 - PG. 1718.

PROPERTY IS SUBJECT TO ANY AND ALL ZONING AND PLANNING ORDINANCES, EASEMENTS, RIGHTS-OF-WAY, AND RESTRICTIONS OF RECORD.

JORDAN GRANT
ENGINEERING • SURVEYING • PLANNING
JORDAN GRANT & ASSOCIATES, PLLC
2351 SIMONTON RD, STATESVILLE, NC 28625
MATT.GRANT@JORDAN-GRANT.COM
704-928-7919
FIRM # P-1227

PLOT PLAN FOR:

Helmsman Homes

DRAWN BY: NS	CHECKED BY: JWE	SCALE: 1" = 40'
PIN NO: 4713-86-3890		
DEED REF: 1047-376		
DATE OF MAP: 03-08-22	SURVEY DATE:	
REVISION:	DRAWING FILE: 20220328_03-10-22	

163 Greenwich Dr., Statesville NC 28677
Shiloh Twsp - Iredell County - North Carolina