Inspections: BLDR-2023-13531

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP 2022-11836 (OSWP)

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

PIN # 4721 -- 95 -- 6580

APPLICANT/OWNER: Cruz Gerardo | APPLICANT ADDRESS: 405 Ridge Avenue, Mooresville, 28115

SITE ADDRESS: 474 E. Monbo Rd. Statesville, 28677 | PHONE: 704-200-6040 | ALT. PHONE

SITE DIRECTIONS: Old Mat. Rd - (L) E. Monbo - Lot on (R)

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: High Grove | SECTION: 1 | LOT # 6 | LOT AREA: 0.61 | DESIGN FLOW: 360gpd | L.T.A.R.: .275 (R=.1)

Septic Tank	1000 (gal)	STB	7160	Date	2/13/23	☑ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI
Pump Tank	(gal)	PT		Date		System Description:	25% reduction		
Pump Make		Model		Serial #		Repair System Description:	Drip		
# Nitrification Fields	1	# Lines	5	Linear Ft	330'	Maintenance Agreement Required:	☐ YES	☑ NO	
Trench Width	36"	Trench Bottom Depth(Low side)	27"	Gravel Depth			☑ GRAVITY	☐ PRESSURE	

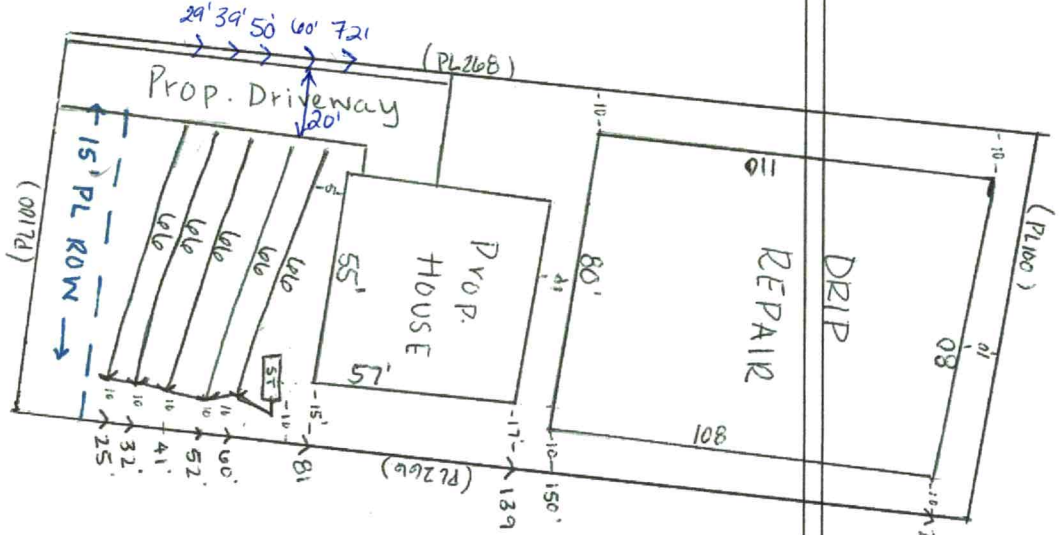
☑ Residence ☐ Business ☐ Other ☑ Slab ☐ Basement w/ plumbing | No. Bedrooms 3 | No. Persons 6 | No. Employees | ☐ Crawl Space | ☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

Comments / Conditions: Do not pave, grade, park, drive, or bury utilites in drainfield. Install lines on 9' centers.

Slight Swag near middle of upper line - within tolerance

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.

1" = 50'

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: Michael Powell

IMPROVEMENT PERMIT by: Sydney Holland | Date: 1/9/23 | OPERATION PERMIT by: D. Wiebers | Date: 3/28/23

AUTHORIZATION TO CONSTRUCT by: Sydney Holland | Date: 1/9/23 | Existing System Inspected by: | Date:

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

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 MW Mooresville Office (704) 660-3625 PERMIT # AP 2022-11836 OSWP

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

PIN # 4721 -- 95 -- 6580

APPLICANT/OWNER: Cruz Gerardo APPLICANT ADDRESS: 405 Ridge Avenue, Mooresville 28115

SITE ADDRESS: 474 E. Monbo Rd. Statesville, 28677 PHONE: 704-200-6040 ALT. PHONE

SITE DIRECTIONS: Old Mnt. Rd - (L) E. Monbo - Lot on (R) SAP CONTROLLED: ☐ YES ☑ NO

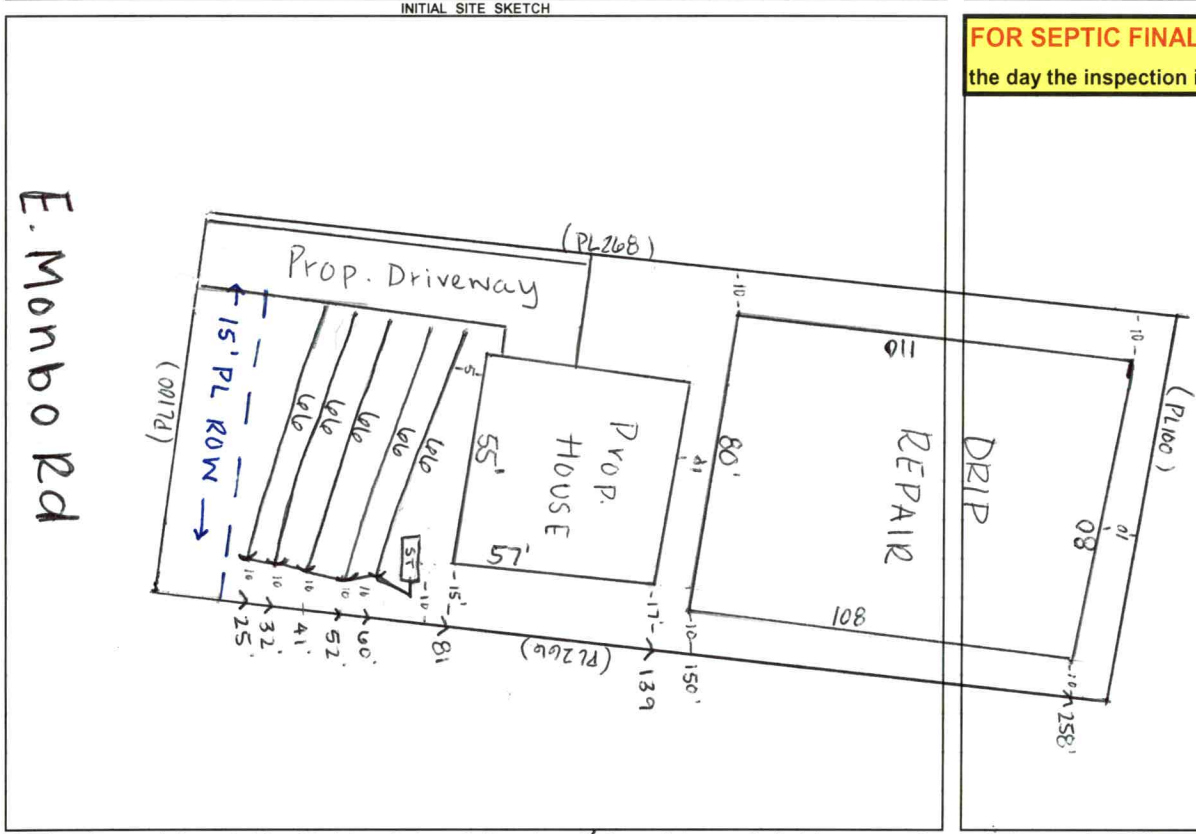
SUBDIVISION: High Grove SECTION: 1 LOT # 6 LOT AREA: 0.61 DESIGN FLOW: 360gpd L.T.A.R.: .275 (R=.1)

Septic Tank	1000	(gal)	STB		Date	☑ 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: Drip				☐ Other	No. Employees
# Nitrification Fields	1	# Lines	5		Linear Ft 330'	Maintenance Agreement Required:	☐ YES	☑ NO		☑ Slab	☐ Crawl Space
Trench Width	36"	Trench Bottom Depth(Low side)		27"	Gravel Depth		☑ GRAVITY	☐ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

Comments / Conditions: Do not pave, grade, park, drive, or bury utilities in drainfield. Install lines on 9' centers.

INITIAL SITE SKETCH



AS BUILT SKETCH

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1" = 50'

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Owner / Applicant Signature: Online Signature Date: Installed by:

IMPROVEMENT PERMIT by: Sydney Holland Date: 11/9/23 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Sydney Holland Date: 11/9/23 Existing System Inspected by: Date:

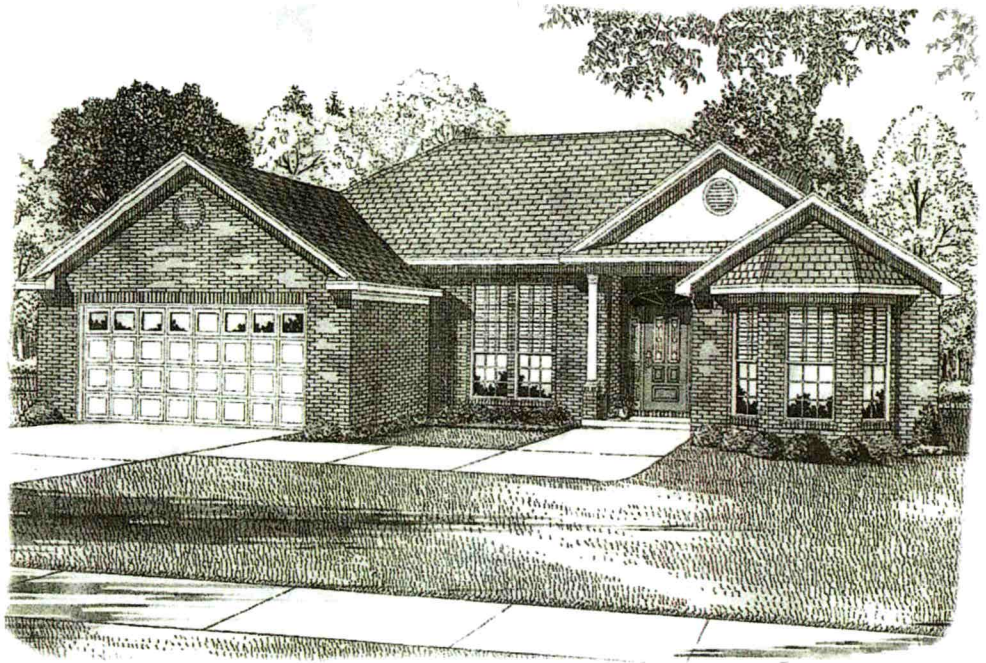
FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

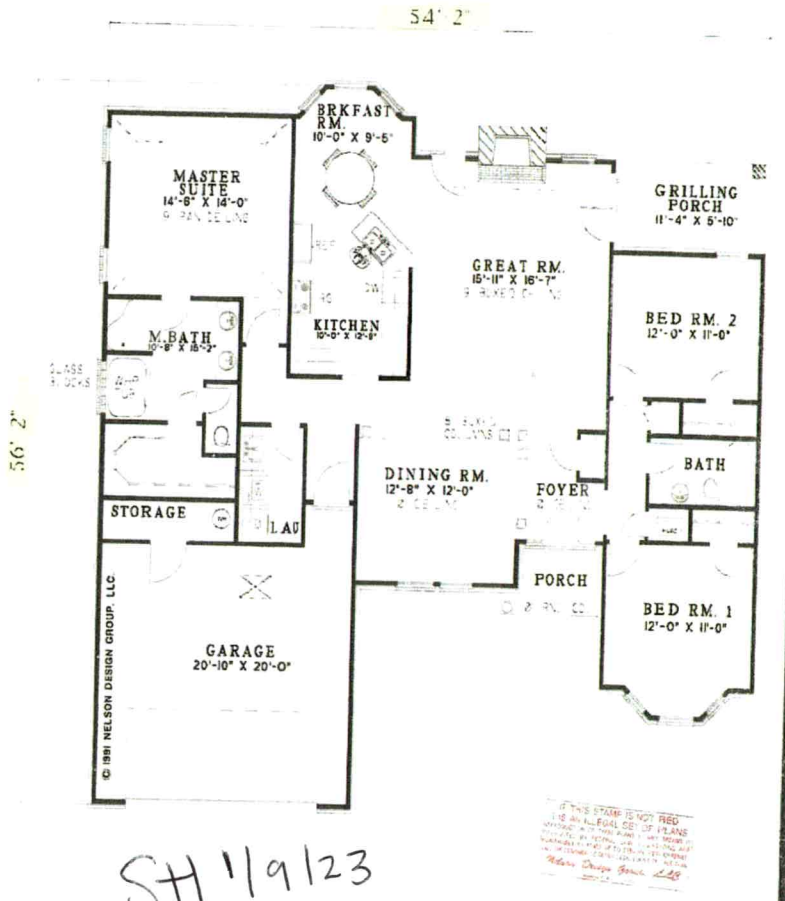
Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

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? _____	

Your Home Plan Source...

www.nelsondesigngroup.com





SH 1/9/23

Welcome To Our Neighborhood...

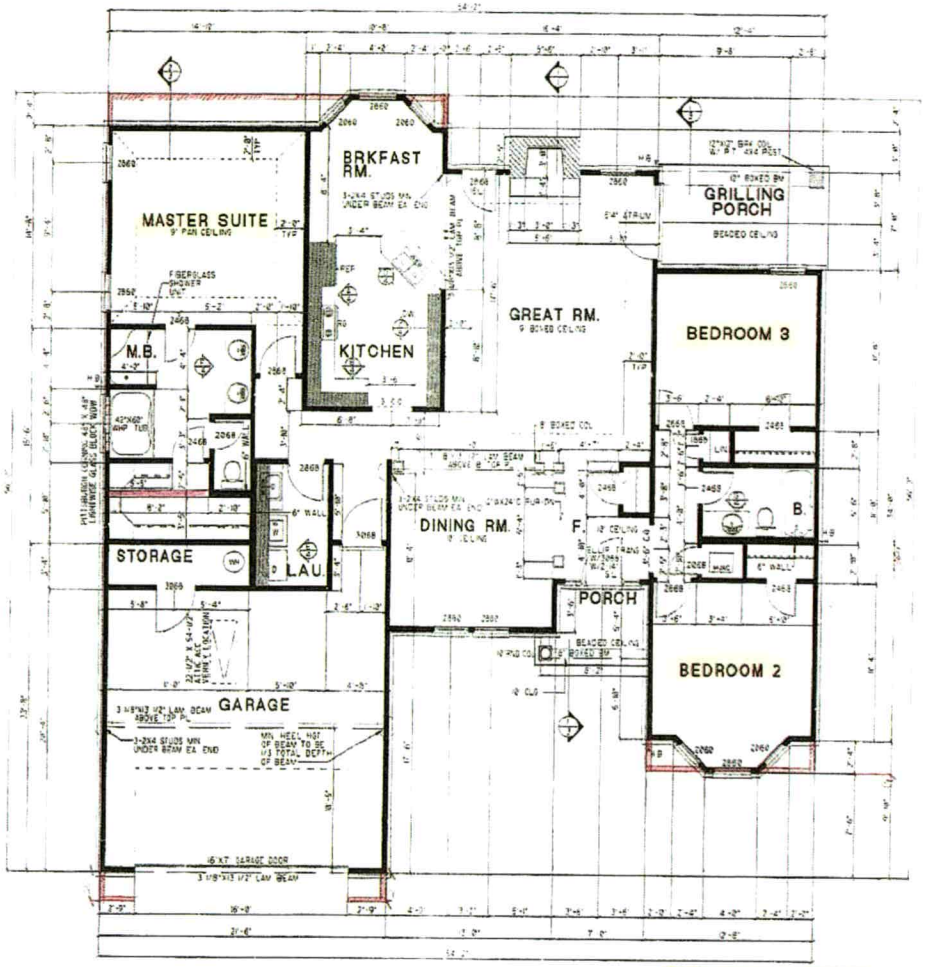
Nelson Design Group LLC

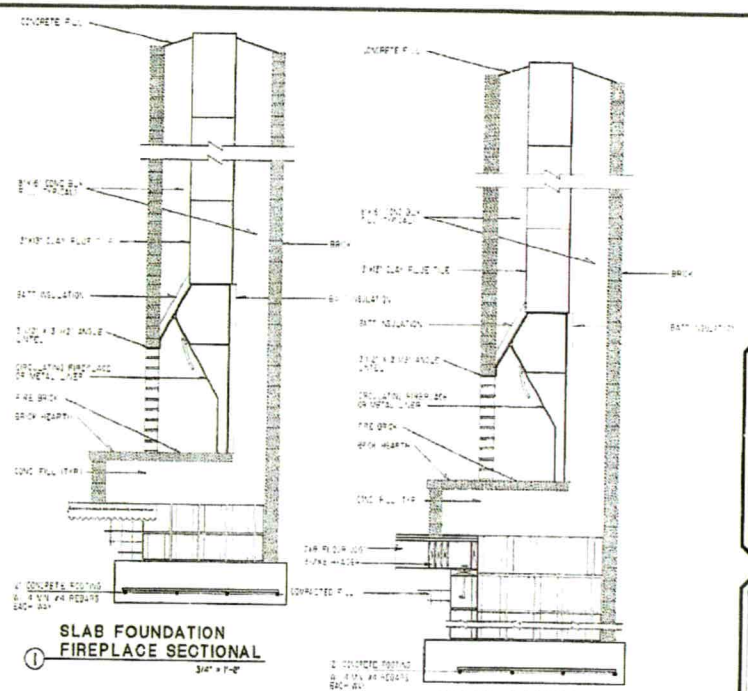
RESIDENTIAL PLANNERS DESIGNERS

Member ASID, CPBD

NATIONALLY PUBLISHED

NDG221





SLAB FOUNDATION
FIREPLACE SECTIONAL
3/4" = 1'-0"

CRAWL FOUNDATION
FIREPLACE SECTIONAL
3/4" = 1'-0"

FLOOR PLAN NOTES:

1. ALL STRUCTURAL INFORMATION SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL HAVE LICENSED STRUCTURAL ENGINEER REVIEW AND DESIGN ALL STRUCTURAL ELEMENTS SUCH AS ALL FOOTINGS, WALL BEAMS, CONCRETE AND MASONRY WALLS, JOISTS AND RAFTERS.

2. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE.

3. WINDOW SIZES INDICATED ON PLANS ARE NOTED BY MANUFACTURER ROUGH OPENING SIZE. REFER TO PLANS AND EXTERIOR ELEVATIONS FOR WINDOW TYPES.

4. COORDINATE LOCATION OF UTILITY METERS WITH SITE PLAN AND KEEP AWAY FROM PUBLIC VIEW. LOCATE METER TO BE MINIMIZED. IE: MOUNT AS LOW AS POSSIBLE.

5. PREFABRICATED FIREPLACE CONSTRUCTION SHALL NOT EXCEED ALL LOW-ABLE CODES REGARDING FIRE CONTROL, SEPARATION, CLEARANCES, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ITEMS AND CONSTRUCTION MEET OR EXCEED ALL CODES. OVERALL SIZE OF CHIMNEY SHALL BE COORDINATED TO MATCH AMOUNT SHOWN ON PLANS AND SHALL NOT EXCEED SIZE OF CHIMNEY CHASE AS CONSTRUCTED.

6. CONTRACTOR SHALL COORDINATE ALL CLOSET SHELVING REQUIREMENTS.

7. DO NOT SCALE DRAWING. FOLLOW DIMENSIONS ONLY.

8. CONTRACTOR SHALL FIELD VERIFY ALL CABINET DIMENSIONS BEFORE FABRICATION.

9. BEDROOM WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ.FT. A MINIMUM NET CLEAR OPENING WIDTH OF 20". A MINIMUM NET CLEAR OPENING HEIGHT OF 24", AND HAVE A MAXIMUM FINISH FLOOR SILL HEIGHT OF 44" FROM FINISH FLOOR.

10. ALL GLASS LOCATED WITHIN 18" OF FLOOR 2' OR 4 SQUARE FEET OR LARGER, OR WITHIN 24" OF DOOR AT BATHTUBS, SHOWERS, WHIRLPOOLS, SAUNAS, STEAM ROOMS OR HOT TUBS SHALL BE TEMPERED.

11. ALL EXPOSED INSULATION SHALL HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450.

12. PROVIDE COMBUSTIBLE JOISTS WITH SCREED AND BACK DRAFT, FOR AIRTIGHT WOOD STOVES AND GAS APPLIANCE WITH 45 DEGREE FLAME.

13. BATHROOMS AND UTILITY ROOMS SHALL BE VENTED TO THE OUTSIDE WITH A MINIMUM OF 3 SQ.FEET EA. VENTILATION OPENING SHALL ALSO BE VENTED TO OUTSIDE.

14. ATTIC HEAT DUCTS SHALL BE LOCATED WITHIN 20' OF ATTIC ACCESS OPENING. RETURN AIR DUCTS SHALL NOT BE LOCATED WITHIN 10' FEET OF A GAS FIRED APPLIANCE.

15. ALL WALLS AND CEILINGS IN GARAGE AND SHARED STORAGE AREAS TO HAVE 5/8" TYPE 'X' DRYWALL W/ TAPED JOINTS. DOOR TO GARAGE TO BE 1 3/8" SOLID CORE OR METAL OR SOLID CORE EQUIVALENT DOORS ENTERING HEAT COOLED PORTION OF RESIDENCE.

16. ALL PIPES, ETC CHASE WALLS SHALL BE INSULATED ABOVE AND OUTSIDE FINISH MATERIAL. "SAFETY" INSULATION BEHIND BATH TUB TO EXTEND FROM FLOOR LEVEL UP PAST 6'-9" AND BE RATED R-19 INSULATION BETWEEN 24" JOISTS.

17. ALL INTERIOR WALLS SHALL BE FRAMED WITH 2" X 4" STUDS @ 16" O.C. WITH METAL STRAPPING AT TOP AND BOTTOM PLATES AND SPACED AT 6'-0" MAXIMUM APART. PLATES SHALL BE 2" X 6" SOLID LUMBER OR DOUBLE 2" X 4" PLATES WITH SUPERIOR JOINTS. BEARING WALLS SHALL BE FRAMED WITH 2" X 6" STUDS @ 16" O.C. OR GREATER WITH 2" X 6" LINTELS OVER DOORS AND WINDOWS. ALL EXTERIOR

PERMIT SNAPSHOT REPORT OSWP-2022-11836 FOR IREDELL COUNTY

Permit Type: Environmental Health OSWP
Work Class: EH Septic Improvement Permit
Status: In Progress
Valuation: $0.00
Description: New septic

Project:
District: Iredell County
Square Feet: 0.00
Assigned To: Holland, Sydney

App Date: 12/19/2022
Exp Date: NOT AVAILABLE
Completed: NOT COMPLETED
Approval Expire Date:

Parcel: 4721956580.000 Main
Address: 474 East Monbo Rd Statesville, NC 28677 Main
Zone: R-20 CUD(R-20 CUD)

Applicant/Authorized Agent
CRUZ GERARDO
405 Ridge Avenue
MOORESVILLE, NC 28115
Business: (704) 200-6040

Property Owner
CRUZ GERARDO
405 Ridge Avenue
MOORESVILLE, NC 28115
Business: (704) 200-6040

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	Depth: 58´ x Width 54´	What are the proposed structures	New Single Family Residence
If other Addition/Structure, please explain		Maximum Number of Bedrooms	3	Number of Occupants	4
Foundation Type	Concrete Slab Foundation	Water Supply	Other Public Water	Desired Septic System Type	No Preference
If other septic system type, please explain		Lot Acreage	0.61	Front Setback	35
Back Setback	35	Left Setback	15	Right Setback	15
Zoning Permit Issued Date	Dec 20 2022 12:00AM	Zoning Permit Expiration Date	Jun 18 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_CRUZ_GERARDO_12/19/2022.jpg	12/19/2022 16:26	GERARDO, CRUZ		Uploaded via CSS
Handwritten_2022-12-19_162157_v1.pdf	12/19/2022 16:45	Bailey, Julia	Available Online	Site Plan
Document_2022-12-19_160342_v1.pdf	12/20/2022 11:35	Nebel, Barbara	Available Online	Authorize to Act as Agent

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2022-47615	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	12/22/2022			12/22/2022 16:24	12/22/2022 16:24

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	

Note	Created By	Date and Time Created
1. Scheduled for 1/04/23 - 8am	Sydney Holland	12/28/2022 11:11
2. 1/9/23-8am	Sydney Holland	01/03/2023 15:10

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00006626	New Gravity System	$500.00	$500.00
	Iredell Zoning Permit Fee	$75.00	$75.00

328' (chambers)
218' (T&T)

PERMIT SNAPSHOT REPORT (OSWP-2022-11836)

Iredell Zoning Tech Fee		$2.25	$2.25
	Total for Invoice INV-00006626	$577.25	$577.25
	Grand Total for Permit	**$577.25**	**$577.25**

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		12/20/2022 11:35	12/20/2022 11:35
Confirm application complete v.1	Generic Action		12/20/2022 11:35
Fees v.1		12/20/2022 11:36	12/21/2022 11:49
Issue Invoice v.1	Generic Action		12/20/2022 11:36
Fees Paid v.1	Generic Action		12/21/2022 11:49
Zoning Review v.1		12/19/2022 16:46	12/21/2022 12:19
Iredell County Zoning Approval v.1	Task	12/19/2022 16:46	12/21/2022 12:19
Issue Invoice v.1	Generic Action		12/21/2022 11:49
Fees Paid v.1	Generic Action		12/21/2022 11:49
Lot Readiness Verification v.1		12/22/2022 16:23	
OSWP Septic Preliminary Site Visit v.1	Inspection	12/22/2022 16:23	12/22/2022 16:25
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		

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

Sheet 1 of 1
PROPERTY ID #: 4721956580
COUNTY: Iredell

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

OWNER: Cruz Gerardo
ADDRESS: 405 Ridge Ave. Mooresville 28115
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 360gpd
LOCATION OF SITE: 474 E. Monbo Rd. Troutman
WATER SUPPLY: Private Public Well Spring (Other)
EVALUATION METHOD: Auger Boring (Pit) Cut

APPLICATION DATE 12-19-22
DATE EVALUATED: 1-9-23
PROPERTY SIZE: .61
PROPERTY RECORDED: yes
TYPE OF WASTEWATER: Sewage✓ Industrial Process Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	7%	0-9	SC/SBK	SS-SP-FR-SEXP	—	65"	—	—	PS .275 (12 off 44")
		9-32	C/SBK	SS-SP-FR-SEXP					
		32-65	CL/SBK	SS-SP-FR-SEXP	Rock cont. @ 44" Sap inc. common cc" + some platey tend. in C → FIRM NON CONT. Rock + of Sap @ 41" (Highly Fe)				
2	7%	0-6	SC/SBK	SS-SP-FR-SEXP	—	34"	—	—	PS .275 12 off 42"
		6-26	C/SBK	SS-SP-FR-SEXP					
		26-34	CL/SBK	SS-SP-FR-SEXP	Rock cont @ 42" Some FI Sap 34"+ Some platy Strx. in C				
		34-62	SAP/MA	FR-SEXP					
3	/	0-7	SC/SBK	SS-SP-FR-SEXP	—	24"	—	—	PS .1 DRIP
		7-24	C/SBK	SS-SP-FR-SEXP					
		24"+	ROCK		Floater Rocks (Few) inC				
4	/	0-8	SC/SBK	SS-SP-FR-SEXP	—	24"	—	—	PS .1 DRIP
		8-24	C/SBK	SS-SP-FR-SEXP					
		24"+	ROCK		Few floater rocks in clayey				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	328'	1310 ft²
System Type(s)	25%	DRIP
Site LTAR	.275	.1

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

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.

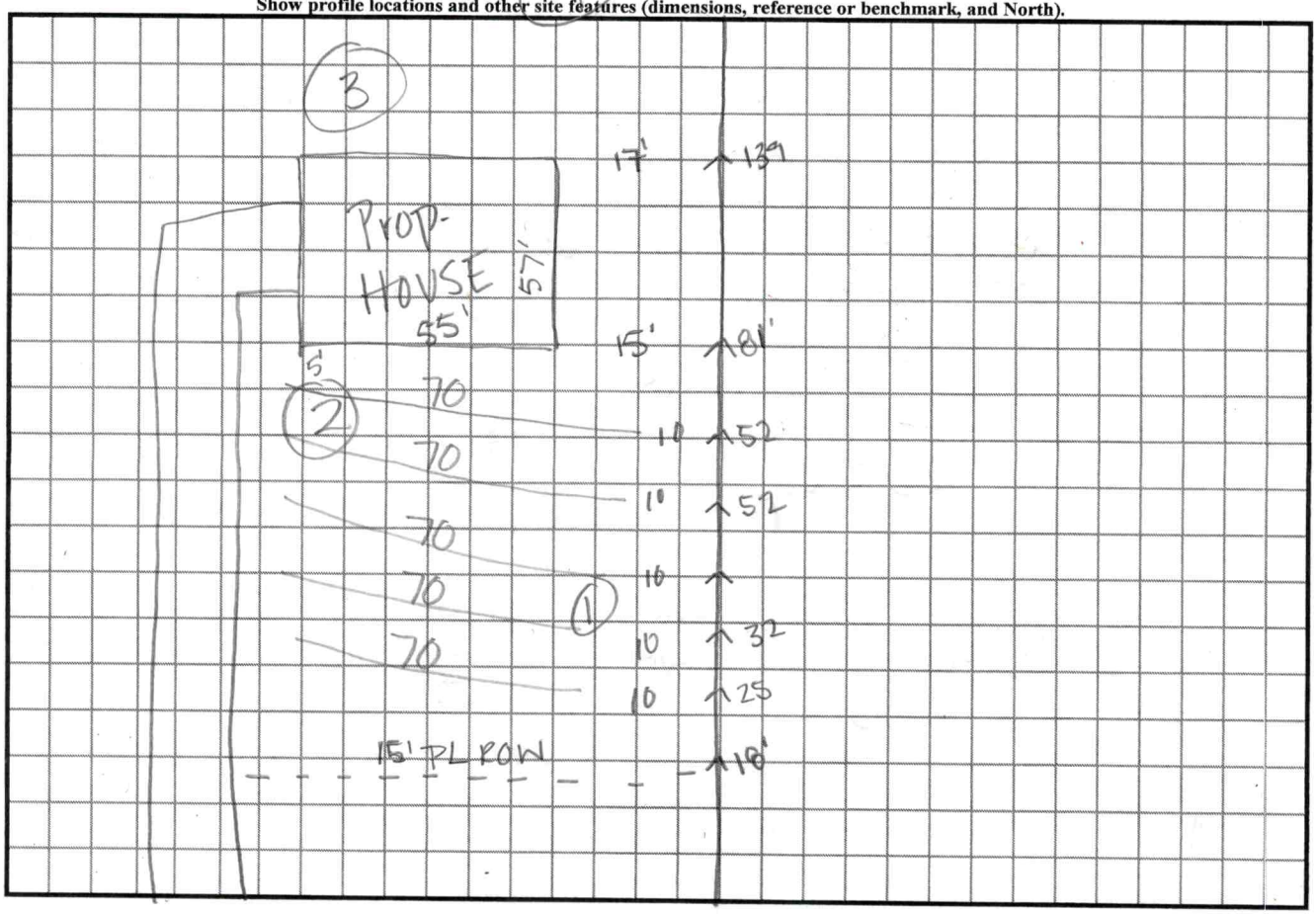
NOTES

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.

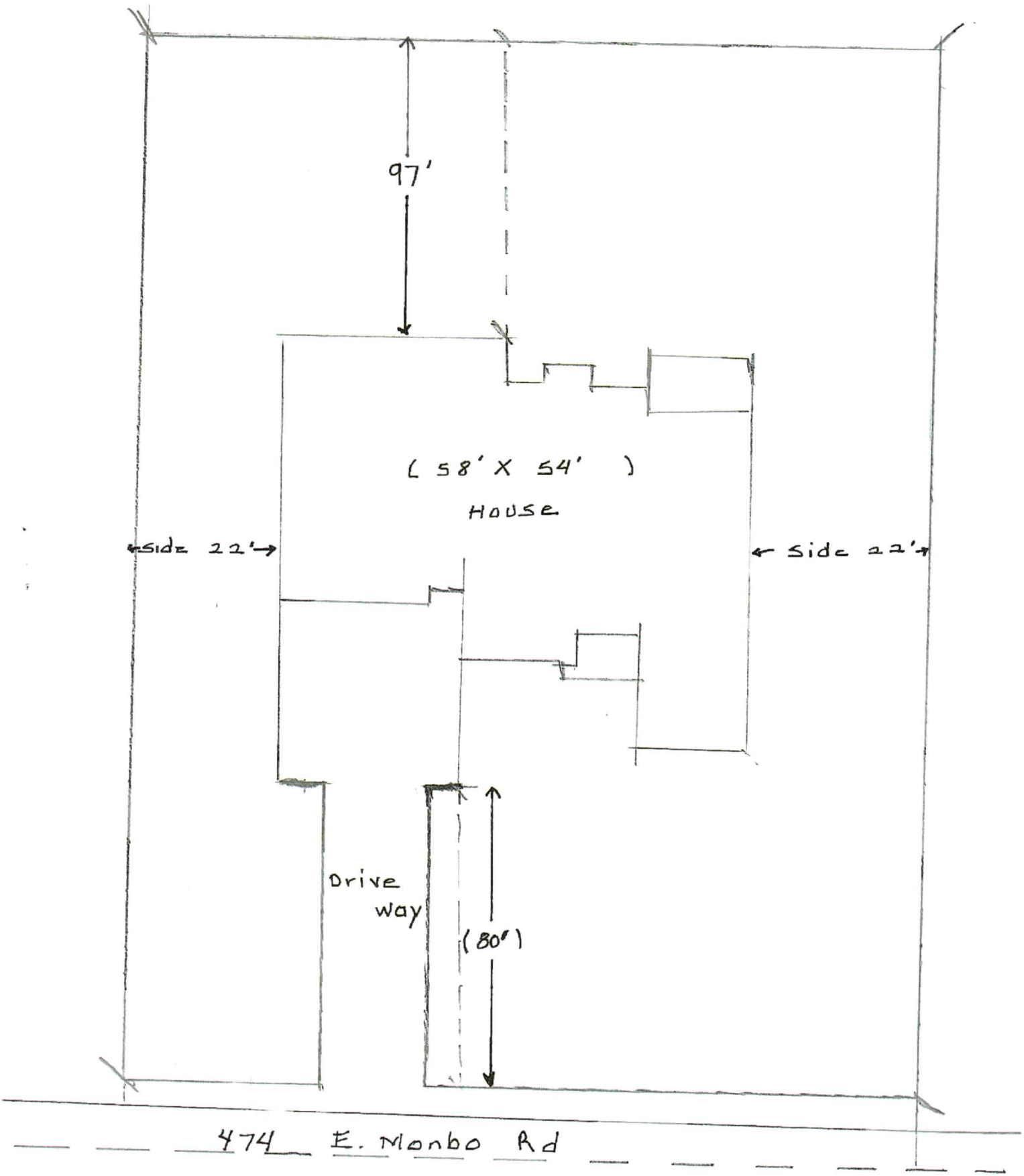
Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



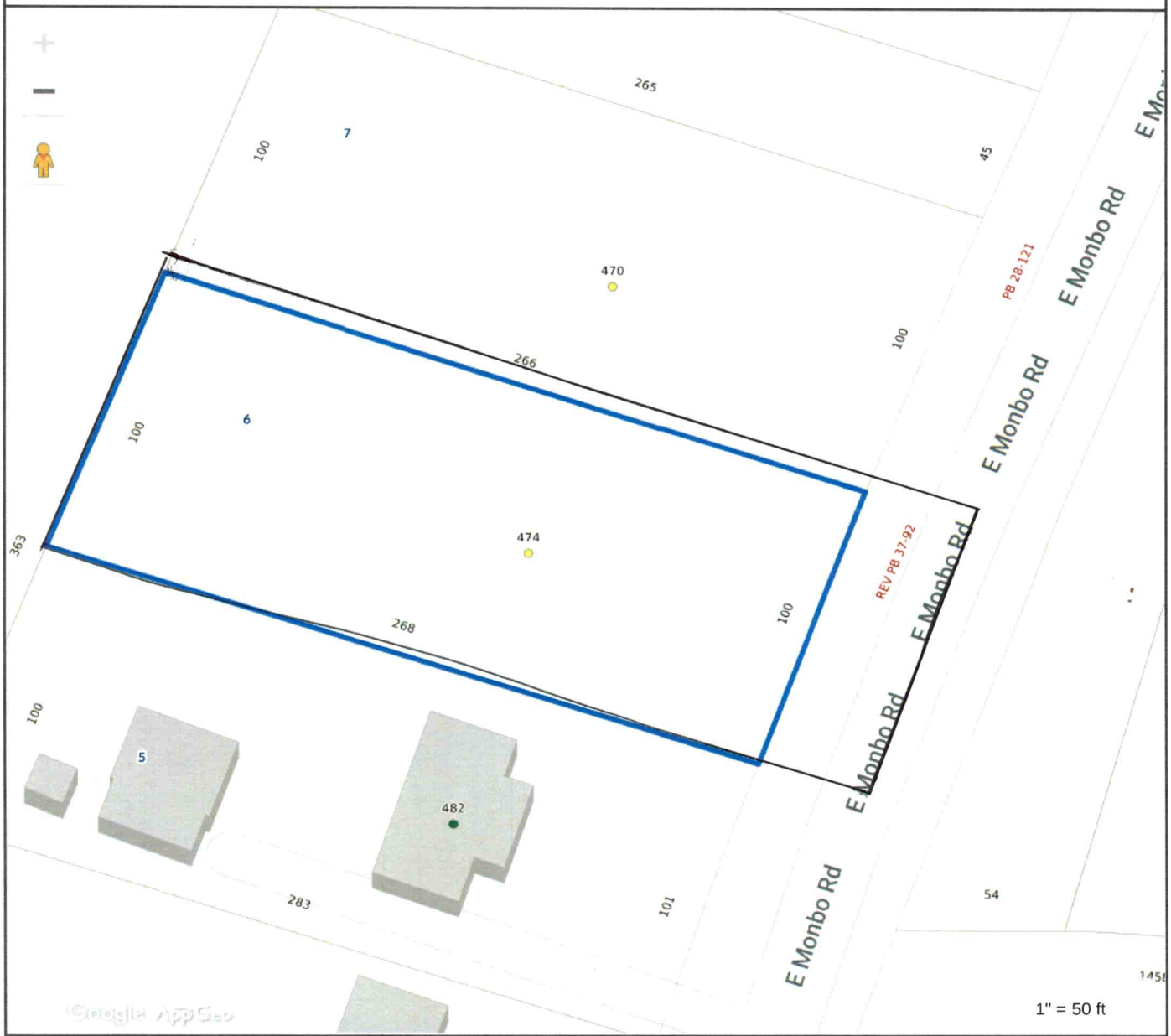
Michael Powell
828 7815737

Gerardo Cruz Lot #6 474 E. Mombo Rd.
4721956580



Iredell County, North Carolina

January 9, 2023



Tax Map Information

• PIN	4721956580,000
• Address	474 EAST MONBO RD
• Account #	Acct 80067922
• Tax Owner	WARREN MAXINE B
• Mailing Address	749 NEW STERLING RD
•	STONY POINT, NC 28678
• GIS Owner	WARREN MAXINE B
• Deed Info	19E / 1079 - WB - 20190808
• Tax Acres	0.61 AC
• Lot #	6
• Description	HIGH GROVE S1 PB28-121 REV PB37-92
• Zoning	R20CUD
• Old Parcel #	
• Bldg Value	$0
• OBXF Value	$0
• Land Value	$19,550
• Total Value	$19,550
• Defer Value	$0
• Tax Districts	-ALLCNTY FIRE- -

IREDELL COUNTY, NC

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Iredell County, North Carolina makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.