ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 Mooresville Office (704) 660-3625 MW

BLDR 2024-57732

PERMIT : OSWP - 2024-52480

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

PIN # 4880 -- 60 -- 3697

APPLICANT/OWNER: MICHAEL CALDWELL APPLICANT ADDRESS: P.O. BOX 240, CLEVELAND, N.C. 27013

SITE ADDRESS: 737 737 EAST MEMORIAL HIGHWAY, HARMONY, N.C. 28634 PHONE: 704-223-3463 ALT. PHONE —

SITE DIRECTIONS: (N) ON 21, (R) ON 901, LOT ON (L) SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: HARDING HAYES & LILLIE P. HAYES PROP SECTION: — LOT # 2 LOT AREA: 0.689AC DESIGN FLOW: 360 GPD L.T.A.R.(Initial): 0.25 L.T.A.R (Repair): 0.25

Septic Tank	1000	(gal)	STB	1160	Date	8/21/24	☑ 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:	25% REDUCTION			
# Nitrification Fields	1	# Lines	3		Linear Ft	362FT	Maintenance Agreement Required:	☐ YES	☑ NO		
Trench Width	36IN	*Max. Trench Depth(Initial)	18 IN	*Max. Trench Depth(Repair)	18 IN	Gravel Depth	—	☑ GRAVITY	☐ PRESSURE		

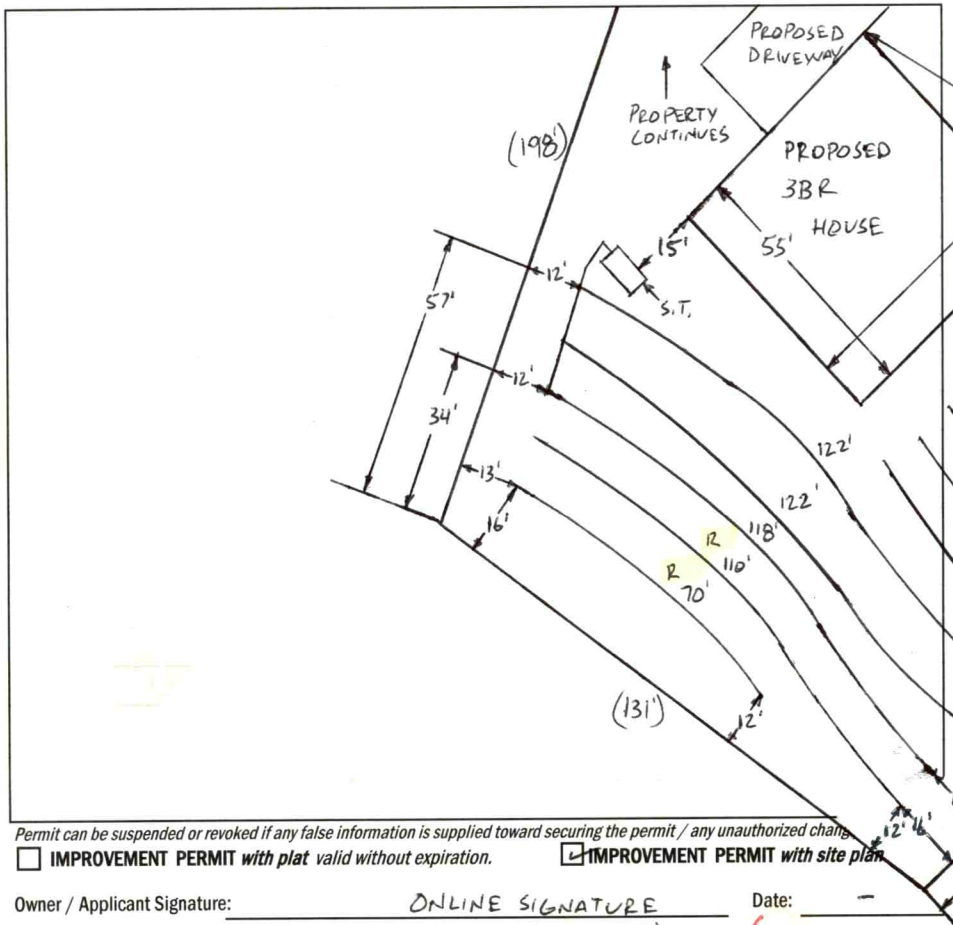
* Measured on the downhill side of the trench Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40 Usable Depth to LC (Initial): 36 IN

☑ Residence	No. Bedrooms	3	Water Supply		
☐ Business	No. Persons	6	☐ Private		
☐ Other	No. Employees	—	☑ Public		
☐ Slab	☑ Crawl Space		☐ Community		
☐ Basement w/plumbing	☐ Basement w/o plumbing				

Usable Depth to LC (Repair): 36 IN *Limiting Condition*

Comments / Conditions: INSTALL ON CONTOUR, INSTALL ON 9FT CENTERS, UTILIZE SERIAL DISTRIBUTION, DO NOT EXCEED A 24IN MAX TRENCH DEPTH (HIGHSIDE) DIVERT SURFACE WATER AWAY FROM SYSTEM

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 IN = 40 FT
S.T. = SEPTIC TANK
R = REPAIR

TANK
LINES 1 & 2 SW 10/18/24

Line 3 missing two panels. To be installed on monday 10/21. MW 10/19/24

2 panels found MW 10/19/24

Installed as drawn

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized change / 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* 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: SID SIMPKINS

IMPROVEMENT PERMIT by: Bryant C. White Date: 7-2-2024 OPERATION PERMIT by: [signature] Date: 10/18/24

AUTHORIZATION TO CONSTRUCT by: Bryant C. White Date: 7-2-2024 Existing System Inspected by: Date:

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

PROPERTY ID #: 4880-60-3697
COUNTY: IREDELL

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: MIKE CALDWELL DATE EVALUATED: 5-30-2024
ADDRESS: P.O. BOX 240, CLEVELAND, N.C. 27013
PROPOSED FACILITY: 3BR PROPOSED DESIGN FLOW (.0400): 360GPD PROPERTY SIZE: 0.689 AC
LOCATION OF SITE: 731 EAST MEMORIAL HIGHWAY, HARMONY, N.C. 28634 PROPERTY RECORDED: YES
WATER SUPPLY: ✓Public Single Family Well Shared Well Spring Other _____ WATER SUPPLY SETBACK: 50
EVALUATION METHOD: Auger Boring ✓Pit Cut TYPE OF WASTEWATER: ✓Domestic High Strength IPWW

PROFILE #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY .0503 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY .0503 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRECTION
1	LINEAR SIDE 5%	0-8	SCL, SBK	FR, SS, SP, SEXP	FEW SAP, INC 40"+ Y/B MOTS 36"+ 2.5Y 7/4	56"+	NA	NA	PS .25 ABOVE 36"	2"
		8-40	C, ABK	FI, S, P, SEXP						
		40-56	CL, WABK	FI, SS, SP, SEXP						
2	LINEAR SIDE 15%	0-14	SCL, SBK	FR, SS, SP, SEXP	FEW SAP, INC 36"+ Y/B MOTS 34"+ 2.5Y 6/6	60"+	NA	NA	PS .25 ABOVE 34"	8"
		14-36	C, ABK	FI, S, P, SEXP						
		36-60	CL, WABK	FI, SS, SP, SEXP						
3	LINEAR SIDE 7%	0-12	SCL, SBK	FR, SS, SP, SEXP	FEW SAP INC 40"+ Y/B MOTS 36"+ 2.5Y 6/3 @ 42"	53"+	NA	NA	PS .25 ABOVE 36"	3"
		12-40	C, ABK	FI, S, P, SEXP						
		40-53	CL, WABK	FI, SS, SEXP						
4	LINEAR SIDE 6%	0-12	FILL 1	MIXED	FEW SAP INC THIRD OCT	63"+	NA	NA	PS .3	2.5"
		12-24	SCL, SBK	FR, SS, SP, SEXP						
		24-50	C, ABK	FI, S, P, SEXP						
		50-63	CL, WABK	FI, SS, SP, SEXP						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	PS	PS
System Type(s)	25%	25%
Site LTAR	0.25	0.25
Maximum Trench Depth	18 IN	18 IN

SITE CLASSIFICATION (.0509): PS
EVALUATED BY: Bryant C. White
OTHER(S) PRESENT: _____

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4		0.05 - 0.2	SEXP (Slightly expansive)		
T (Terrace)		SiC (Silty clay)				EXP (Expansive)		
TS (Toe Slope)		C (Clay)						
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

DEPTH OF FILL In inches from land surface

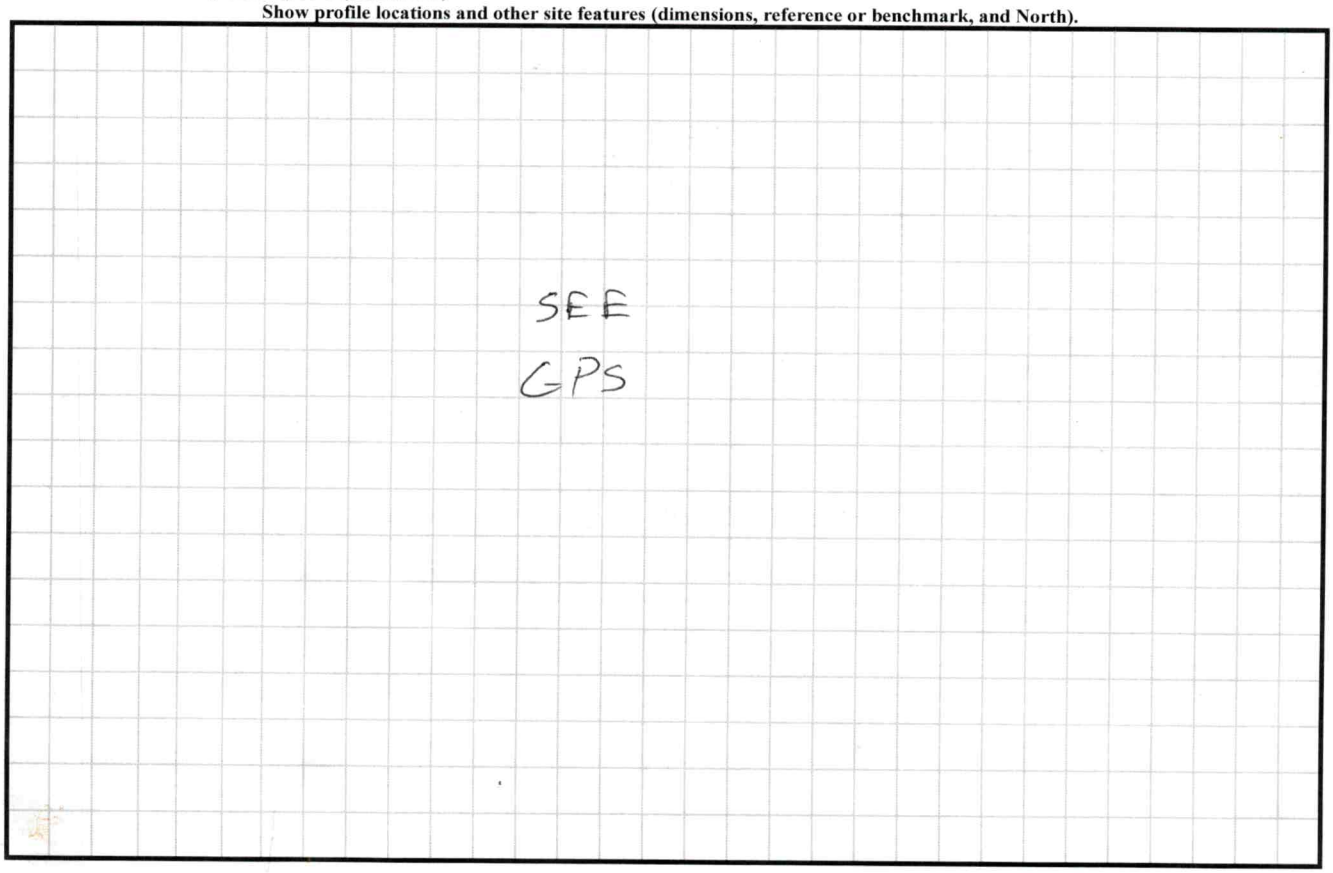
RESTRICTIVE HORIZON Thickness and depth from land surface

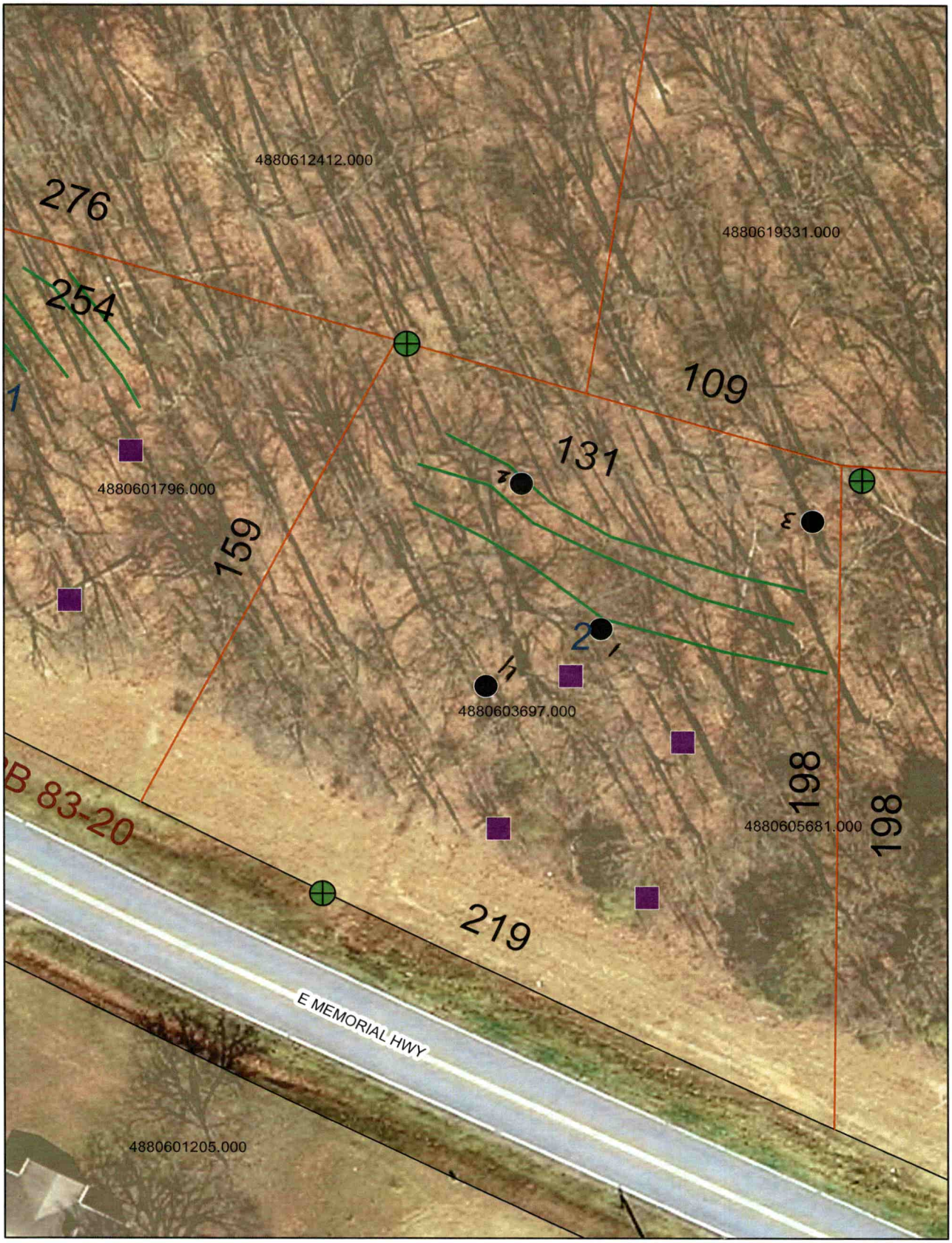
SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

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) or U (Unsuitable)

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




4880612412.000
276
254
4880619331.000
109
131
4880601796.000
159
4880603697.000
198
198
4880605681.000
219
E MEMORIAL HWY
4880601205.000

PERMIT SNAPSHOT REPORT OSWP-2024-52480 FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	04/30/2024
Work Class:	EH Septic Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	In Progress	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	White, Bryant	**Approval Expire Date:**	
Description:	septic Improvement permit /perk test LOT IS STAKED AND READY PER MIKE 5/8/24 RH				

Parcel: 4880602760.000 Main	**Address:** 731 E Memorial Hwy Main Harmony, NC 28634	**Zone:** RA(Residential Agricultural District)

Property Owner
SAMMY D+NELLIE REAVIS

Applicant/Authorized Agent
Caldwell, Michael Shawn/Third Creek Building Company
MIKE CALDWELL
PO box 240
Cleveland, NC 27013
Mobile: (704) 223-3463

Permit Custom Fields

How is your site plan being submitted	Survey Plat	Septic Application/Permit Type	Improvement Permit	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	50x50
What are the proposed structures	New Single-Family Residence - Stick Built	Type of New Single-Family Residence	Stick Built	Maximum Number of Bedrooms	3
If other Addition/Structure, please explain		Number of Occupants	6	Foundation Type	Crawl Space Foundation
Residential/Business/Other	Residential	Water Supply	Municipal Water	Desired Septic System Type	Conventional (most common)
Lot Acreage	1.778	Front Setback	35	Back Setback	35
Left Setback	15	Right Setback	15	Zoning Permit Issued Date	May 1 2024 12:00AM
Zoning Permit Expiration Date	Oct 28 2024 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	WSIII BOW HUNTING CREEK

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_MIKE_CALDWELL_4/30/2024.jpg	04/30/2024 13:49	CALDWELL, MIKE		Uploaded via CSS
Signed Contract - 731 Memorial Hwy_v1.pdf	05/01/2024 7:38	CALDWELL, MIKE	Available Online	
PRELIMINARY SURVEY - MEMORIAL HWY_v1.pdf	05/01/2024 8:36	CALDWELL, MIKE	Available Online	

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2024-214190	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	05/14/2024	05/14/2024 0:00	05/14/2024 0:00	05/14/2024 15:36	05/14/2024 15:36

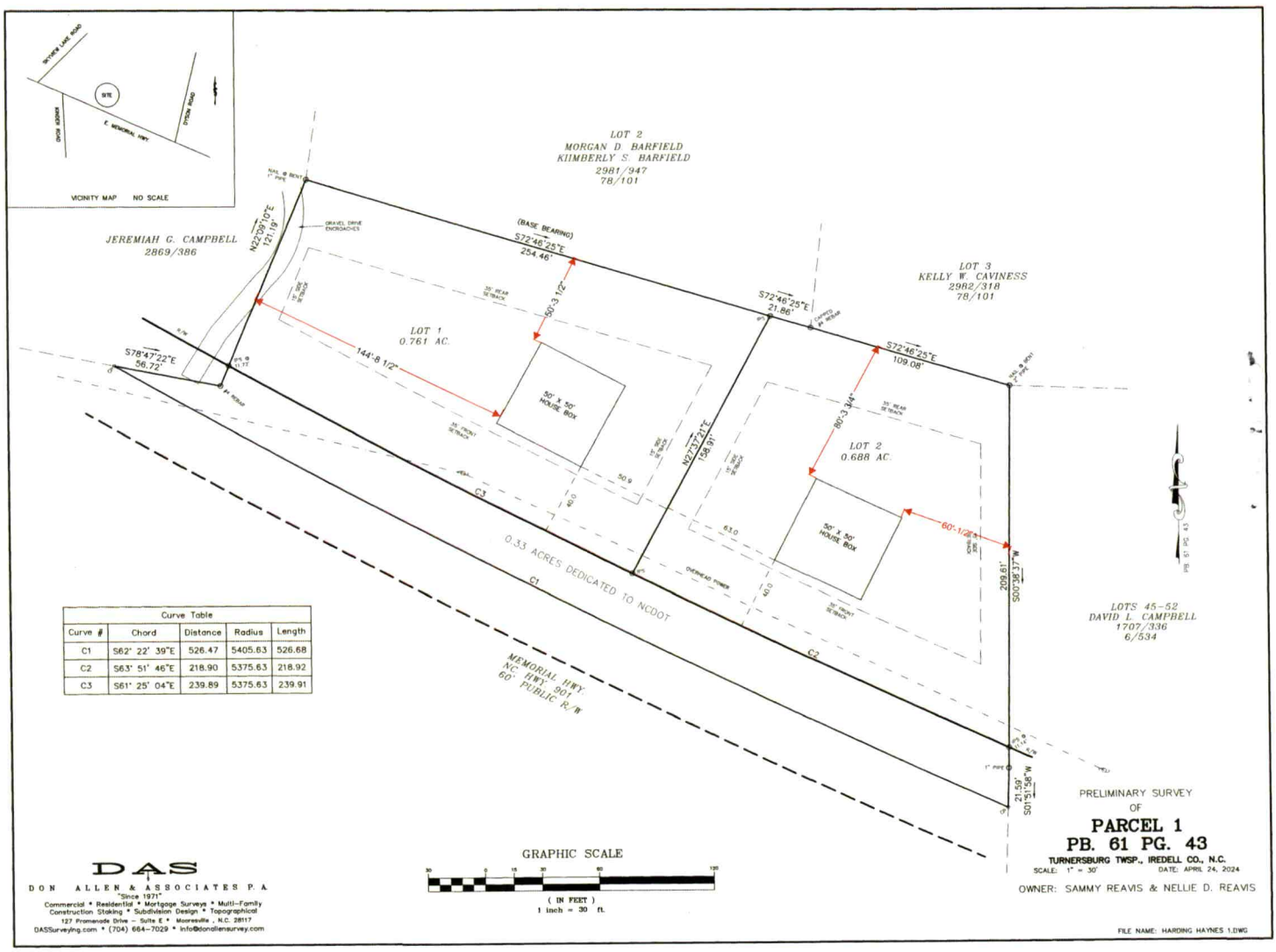
Inspectors: Moore, Bradley (Primary)

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

PERMIT SNAPSHOT REPORT (OSWP-2024-52480)

Invoice No.	Fee		Fee Amount	Amount Paid
INV-00030705	New Gravity System		$500.00	$500.00
	Iredell Zoning Tech Fee		$2.25	$2.25
	Iredell Zoning Permit Fee		$75.00	$75.00
		Total for Invoice INV-00030705	$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		05/01/2024 7:38	05/01/2024 7:38
Confirm application complete v.1	Generic Action		05/01/2024 7:38
Zoning Review v.1		05/01/2024 8:37	05/10/2024 11:03
~~Floodplain Admin Overview v.1~~	Task		05/01/2024 8:37
Iredell County Zoning Approval v.1	Task	05/01/2024 8:37	05/01/2024 8:38
Issue Invoice v.1	Generic Action		05/01/2024 8:38
Fees Paid v.1	Generic Action		05/10/2024 11:03
Fees v.1		05/09/2024 14:03	05/10/2024 11:03
Issue Invoice v.1	Generic Action		05/09/2024 14:03
Fees Paid v.1	Generic Action		05/10/2024 11:03
Lot Readiness Verification v.1		05/14/2024 15:36	
OSWP Septic Preliminary Site Visit v.1	Inspection	05/14/2024 15:36	05/14/2024 15:37
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		



Curve Table				
Curve #	Chord	Distance	Radius	Length
C1	S62° 22' 39"E	526.47	5405.63	526.68
C2	S63° 51' 46"E	218.90	5375.63	218.92
C3	S61° 25' 04"E	239.89	5375.63	239.91

PRELIMINARY SURVEY
OF
PARCEL 1
PB. 61 PG. 43
TURNERSBURG TWSP., IREDELL CO., N.C.
SCALE: 1" = 30' DATE: APRIL 24, 2024

OWNER: SAMMY REAVIS & NELLIE D. REAVIS

DAS
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DASSurveying.com * (704) 664-7029 * info@donallensurvey.com

FILE NAME: HARDING HAYNES 1.DWG