ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 (BB) | PERMIT # RELAY AP 2022-11491

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

PIN # 4616 -- 11 -- 6398 ✓

APPLICANT/OWNER: Joseph Logano | APPLICANT ADDRESS: 166 Rainbow Rd, Mooresville | AP-3141416

SITE ADDRESS: 166 Rainbow Rd, Mooresville 28115 ✓ | PHONE: 704-363-7545 | ALT. PHONE -

SITE DIRECTIONS: Alcove - Catalina - Rainbow | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: - | SECTION: - | LOT # - | LOT AREA: 13.149 acres | DESIGN FLOW: 600 gpd | L.T.A.R.: 0.3

Septic Tank	EX (gal)	STB	Date	☒ New System ☐ Repair ☐ Expansion System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms	5	Water Supply	
Pump Tank	EX (gal)	PT	Date	System Description: LP - PPBPS	☐ Business	No. Persons	10	☒ Private	
Pump Make		Model	Serial #	Repair System Description: LP - PPBPS	☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1	# Lines 4	Linear Ft 335'	Maintenance Agreement Required: ☒ YES ☐ NO	☐ Slab	☒ Crawl Space		☐ Community	
Trench Width	24 in	Trench Bottom Depth ~~(Low side)~~	36" max	Gravel Depth - ☐ GRAVITY ☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing			

Comments / Conditions: Purpose of this permit is to have tanks at the shop. System has been installed at time of permit.

* Must check floats, alarm, pressure head, electrical *
No bedrooms in shop.

INITIAL SITE SKETCH

See attached by MA&A
approved on 12/28/22

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.

SHOP TANK INFO
Septic Tank STB - GTH20 Date - 1/28/23
Pump Tank PT - GTH20 Date - 1/7/23
Pump Make

Timers must be installed to ensure pumps are not running at the same time.

6/9/2023 -
- Floats/Alarm
- Pressurehead
- Electrical
— BB

House Dose = 173
Shop Dose = 100
House Drawdown = 8.2 in
Shop Drawdown = 4.6 in
2 Ft head
2 in supply

Tanks set - need plumbing 3/8/23 DW

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: _____ Date: _____ Installed by: Specialty Septic

IMPROVEMENT PERMIT by: Cay Hil Date: 12/30/22 OPERATION PERMIT by: Benjamin A Bolin Date: 6/9/2023

AUTHORIZATION TO CONSTRUCT by: Cay Hil Date: 12/30/22 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 | (BB) Mooresville Office (704) 660-3625 | PERMIT # RELAY AP 2022-11491

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

PIN # 4646 -- 11 -- 6398

AP-314196

APPLICANT/OWNER: Joseph Logano | APPLICANT ADDRESS: 166 Rainbow Rd, Mooresville

SITE ADDRESS: 166 Rainbow Rd, Mooresville 28115 | PHONE: 704-363-7545 | ALT. PHONE -

SITE DIRECTIONS: Alcove - Catalina - Rainbow | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: - | SECTION: - | LOT # - | LOT AREA: 13.149 acres | DESIGN FLOW: 600 gpd | L.T.A.R.: 0.3

Septic Tank	EX	(gal)	STB	Date	☒ New System	☐ Repair	☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms	5
Pump Tank	EX	(gal)	PT	Date	System Description:	LP - PPBPS			☐ Business	No. Persons	10
Pump Make		Model		Serial #	Repair System Description:	LP - PPBPS			☐ Other	No. Employees	
# Nitrification Fields	1	# Lines	4	Linear Ft	335'	Maintenance Agreement Required:	☒ YES	☐ NO	☐ Slab	☒ Crawl Space	
Trench Width	24 in	Trench Bottom Depth ~~(Low side)~~	36" max	Gravel Depth	-		☐ GRAVITY	☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing	

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Purpose of this permit is to have tanks at the shop. System has been installed at time of permit.

* Must check floats, alarm, pressure head, electrical *
No bedrooms in shop.

INITIAL SITE SKETCH

See attached by MA&A
approved on 12/28/22

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.

SHOP TANK INFO
Septic Tank STB - GTH20 Date - 1/28/23
Pump Tank PT - GTH20 Date - 1/7/23
Pump Make
Timers must be installed to ensure pumps are not running at the same time.

House Dose = 173
Shop Dose = 100
House Drawdown = 8.2 in
Shop Drawdown = 4.6 in
2 ft head
2 in supply

Tanks set - need plumbing 3/8/23 DW

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: | Date: | Installed by: Specialty Septic

IMPROVEMENT PERMIT by: Cary Hill | Date: 12/30/22 | OPERATION PERMIT by: | Date:

AUTHORIZATION TO CONSTRUCT by: Cary Hill | Date: 12/30/22 | Existing System Inspected by: | Date:

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

Copy Wtr
8/5/22



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887
7/21/2022

Reference: Data Sheet for 166 Rainbow Rd
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side, 25' side street, 50' lake
Water Source: Private well
Number of Bedrooms/Daily Flow: 5/600 GPD
Proposed LTAR: 0.3 GPD/FT^2
Proposed System Type: PPBPS
Proposed Repair System Type: PPBPS
Distribution: Low Pressure-Central Valve Box
Flow per Orifice: 0.41 GPM
Orifice Size: 5/32"
System Flow: 31.2 GPM
Dosing Volume: 273.6 gallons
Pump Run Time: 8.8 minutes
Elevation Head: 22.1'
Friction Head: 7.5'
Pressure Head: 2'
Total Dynamic Head: 31.6'
Supply Line Length: 305' of 2" PVC
Septic/Pump Tank Size: 1500/1500 gallons
Proposed Trench Bottom: 36"



Line	Design Length	# of Panels	Actual Length	Elevation
Yellow 1			70'	790.9'
Orange 2			85'	790.2'
Blue 3			95'	790.0'
White 4			85'	789.1'
Pink 5	**84'**	**19**	**85'**	**788.1'**
Orange 6	**84'**	**19**	**85'**	**787.4'**
Yellow 7	**84'**	**19**	**85'**	**786.8'**
Pink 8	**84'**	**19**	**85'**	**786.3'**

Initial System: 336'
Pump Tank: 771'
Repair System: 335'
House Corner: 775'

Comments:

PROPERTY ID #: 4646116396
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

LICENSED SOIL SCIENTIST MICHAEL STATE OF NORTH C

OWNER: Five Ever Home LLC APPLICATION DATE
ADDRESS: 9911 Rose Common Dr, Huntersville, NC 28078 DATE EVALUATED: 1/2021
PROPOSED FACILITY: 5 BDRM PROPOSED DESIGN FLOW (.1949): 600 GPD PROPERTY SIZE: 12.851 AC
LOCATION OF SITE: 166 RainbowRd PROPERTY RECORDED:
WATER SUPPLY: X Private ☐ Public X Well ☐ Spring ☐ Other
EVALUATION METHOD: X Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: X 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	
AB 1	LS 7%	0-4	Br CL WSBK	FR SS SP SXP	Mn @ 33"	48"	N/A	N/A	PS 0.275
		4-48	R C SBK	FR SS SP SXP					
AB 2	LS 7%	0-5	Br CL WSBK	FR SS SP SXP	Mn @ 30"	48"	N/A	N/A	PS 0.275
		5-48	R C SBK	FR SS SP SXP					
AB 3	LS 7%	0-29	R C SBK	FR SS SP SXP	N/A	45"	F-C SAP	N/A	PS 0.3
		29-45	R CL WSBK	FR SS SP SXP					
		45-48	VER L SAP	FR SS SP SXP					
AB 4	LS 7%	0-5	Br CL WSBK	FR SS SP SXP	N/A	48"	F-C SAP	N/A	PS 0.3
		5-40	R C SBK	FR SS SP SXP					
		40-48	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1050 FT^2	4800 FT^2
System Type(s)	PPBPS	DRIP
Site LTAR	0.3	0.125

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT:

COMMENTS

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: 4646116396
DATE OF EVALUATION:
COUNTY: IREDELL

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	
AB 5	LS 7%	0-45	R C SBK	FR SS SP SXP	N/A	48"	F-C SAP	N/A	PS 0.3
		45-48	R CL WSBK	FR SS SP SXP					
AB 6	LS 7%	0-30	R C SBK	FR SS SP SXP	N/A	48"	F-C SAP	N/A	PS 0.3
		30-48	R CL WSBK	FR SS SP SXP					
AB 7	LS 7%	0-36	R C SBK	FR SS SP SXP	N/A	48"	N/A	N/A	PS 0.3
		36-48	R CL WSBK	FR SS SP SXP					
AB 8	LS 7%	0-38	R C SBK	FR SS SP SXP	N/A	48"	F-C SAP	N/A	PS 0.3
		28-48	R CL WSBK	FR SS SP SXP					
AB 9	LS 6%	0-20	R C SBK	FR SS SP SXP	N/A	60"	N/A	N/A	PS 0.3+
		20-60	R CL WSBK	FR SS SP SXP					

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #:4646116396_____
DATE OF EVALUATION: _____
COUNTY: __IREDELL____

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	
AB 10	LS 6%	0-24	R C SBK	FR SS SP SXP	N/A	60"	N/A	N/A	PS 0.3+
		24-60	R CL WSBK	FR SS SP SXP					
AB 11	LS 6%	0-12	R C SBK	FR SS SP SXP	N/A	48"	N/A	N/A	PS 0.3+
		12-48	R CL WSBK	FR SS SP SXP					
AB 12	LS 6%	0-20	R C SBK	FR SS SP SXP	N/A	30"	N/A	N/A	PS 0.3+
		20-30	R CL WSBK	FR SS SP SXP					
PIT 1	LS 6%	0-22	R C SBK	FR SS SP SXP	N/A	57"	N/A	N/A	PS 0.3+
		22-57	R CL WSBK	FR SS SP SXP					
PIT 2	LS 6%	0-12	FILL		N/A	54"	N/A	N/A	PS 0.3
		12-20	Br CL WSBK	FR SS SP SXP					
		20-32	R C SBK	FR SS SP SXP					
		32-54	R CL WSBK	FR SS SP SXP					

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #:4646116396
DATE OF EVALUATION:
COUNTY: IREDELL

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
PIT 3	LS 6%	0-12	R C SBK	FR SS SP SXP	N/A	54"	SAP Inc @ 34"	N/A	PS 0.3+
		12-54	R CL WSBK	FR SS SP SXP					
PIT 4	LS 6%	0-5	Br CL WSBK	FR SS SP SXP	Few Mn small coarse fragments throughout	52"	N/A	N/A	PS 0.275
		5-30	R C SBK	FR SS SP SXP					
		30-52	R CL WSBK	FR SS SP SXP					

COMMENTS:

811
Know what's below.
Call before you dig.
NORTH CAROLINA
ONE-CALL CENTER INC.
DIAL 811 or 1-800-632-4949
2 BUSINESS DAYS BEFORE DIGGING
www.nc811.org

DENUDED AREA = 1.44 ac.

GENERAL EROSION CONTROL NOTES:
1. Prior to construction of new pavement, site shall be graded so as to provide settling areas around catchbasins. Catch basin rims shall be set at finish grade. Areas immediately adjacent to basins shall be several inches below finish grade until pavement is constructed.
2. Erosion and sedimentation control measures shall be in place prior to the commencement of any site work or earthwork operations, shall be maintained during construction, and shall remain in place until all site work is complete and ground cover is established.
3. Stockpiles shall be surrounded on their perimeters with staked silfation fences to prevent and/or control siltation and erosion.
4. Tops of stockpiles shall be covered in such a manner that stormwater does not infiltrate the materials and thereby render the same unsuitable for fill use.
5. In any event, slopes left exposed shall be stabilized within 7 days of completion of any phase of grading, be planted or otherwise provided with temporary or permanent ground cover, devices or structures sufficient to restrain erosion. In addition all measures must be shown within the limits of construction.
6. Culvert/pipe inlets and outfalls shall be protected by filter berms until disturbed areas are permanently stabilized.
7. Erosion Control Inlet Berms shall be constructed at all existing catch basins. Temporary Silt fence shall be constructed at all proposed catch basins located in fill areas & subject to stormwater run-off from proposed fill areas during construction, or as directed by the owner/engineer. No sediments shall enter the on-site or off-site drainage systems at any time.
8. All erosion control measures shall be routinely inspected, cleaned and repaired or replaced as necessary throughout all phases of construction. In addition, inspection shall take place after each rainfall event.
9. All proposed slopes steeper than 3:1 shall be stabilized with S75 blotting or better and protected from erosion.
10. The contractor shall keep on site at all times extra siltation fencing for installation at the direction of the engineer or the Erosion Control Inspector to mitigate any emergency condition.
11. Disposal of all demolished materials is the responsibility of the contractor and must be taken off-site in accordance with all federal, state, and local municipal requirements.
12. The area or areas of entrance and exit to and from the site shall be maintained in a condition which will prevent tracking or flowing of sediment onto adjacent rights-of-way. All sediment spilled, dropped, washed or tracked onto adjacent right-of-way must be removed immediately.
13. Tree areas to remain shall be protected and delineated with orange construction fence.

ENHANCED EROSION CONTROL NOTES:
1. Surface water draw down devices (risers or skimmers) shall be installed in all sediment basins. Forebays shall be used in conjunction with all sediment basins. Rock forebay embankments may be used in lieu of porous baffles.
2. Polyacrylamides (PAM) shall be used to reduce turbidity and suspended solids whenever a sediment trap, basin, pit, hole or building foundation is being pumped out to remove sediment laden water. PAM is not required when any of the above is being pumped to an approved sediment basin on-site. This activity must be inspected and approved by the Erosion control inspector.
3. Double silt fence shall be used along wetlands, streams, lakes, or other surface water bodies as well as adjacent to SWIM or other water quality buffers. High Hazard silt fence with wire backing and washed stone will be installed as determined necessary by the County Engineer or inspector.
4. The amount of uncovered area at any one time shall be limited to no more than 20 acres, unless approved by the County Engineer.
5. A 10-foot undisturbed buffer shall be provided around the outside edge of drainage features such as intermittent and perennial streams, ponds, and wetlands. Incidental drainage improvements or repairs will be permitted within the buffer as approved by county staff.
6. Installation of temporary ground cover or seeding must be performed within 5 working days or slope drains installed after 50 slopes are brought up to height.
7. Permanent terraces shall be installed on 2:1 or steeper slopes over 10-ft in height to reduce runoff velocity coming down the slope.

CONSTRUCTION SEQUENCE:
1. Obtain Grading/Erosion Control plan approval from City/County.
2. Setup an on-site pre-construction conference with the following departments: City/County/Town Erosion Control Inspector, Land Development Inspector and Zoning Inspector. Failure to schedule such conference 48 hours prior to any land disturbing activity is subject to fine.
3. Install Silt Fence, Construction Entrance, and other measures as shown on plans, clearing only as necessary to install these devices.
4. Call for on-site inspection by inspector. When approved inspector issues the Grading permit and clearing and grubbing may begin.
5. The Contractor shall diligently and continuously maintain all erosion control devices and structure.
6. For phased erosion control plans, contractor shall meet with Erosion control inspector prior to commencing with each phase of erosion control measures.
7. The land development inspector should be called to conduct inspections on storm drainage, sidewalks, driveway on storm drainage and all capacity of road construction.
8. Stabilize site as areas are brought to finish grade.
9. Coordinate with Erosion Control Inspector prior to removal of erosion control measures.
10. All erosion control measures shall be constructed in accordance with NC Erosion and sediment control and design manual, U.S. department of Agriculture, City/County/Town Erosion Control Ordinance and Land Development standards.

EROSION CONTROL NOTES:
1. On-site burial pits require on on-site demolition landfill permit from the zoning administrator.
2. Any grading beyond the denuded limits shown on the plan is a violation of the Erosion Control Ordinance and is subject to a fine.
3. Grading more than one acre without an approved Erosion Control plan is a violation of the Erosion Control Ordinance and is subject to a fine.
4. All perimeter areas and slopes greater than 3:1 shall be stabilized within 7-days. Ground Stabilization on all other areas must be completed within 14-days. Refer to the Erosion Control Ordinance for additional requirements.
5. Additional Measures to control erosion and sediment may be required by a representative of the County.
6. A grading plan must be submitted for any lot grading exceeding one acre that was not previously approved.
7. Temporary Driveway permit for construction entrances in the NCDOT right of way must be presented at the pre-construction meeting.
8. All embankments must be constructed per section 4.0.6 Embankment Requirements in the BMP design manual.
9. Slopes shall be graded no steeper than 2:1. Slopes greater than 10 feet require adequate benching. Soils engineer to verify the stability of slopes greater than 2:1.
10. Soil compaction tests are required on any berm >= 5-ft. in height from the Natural grade. Soil Compaction must be at 95% proctor and certified by a licensed soil engineer.

Required Ground Stabilization Timeframes

Site Area Description	Stabilize Within This Many Calendar Days After Ceasing Land Disturbance	Timeframe Variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

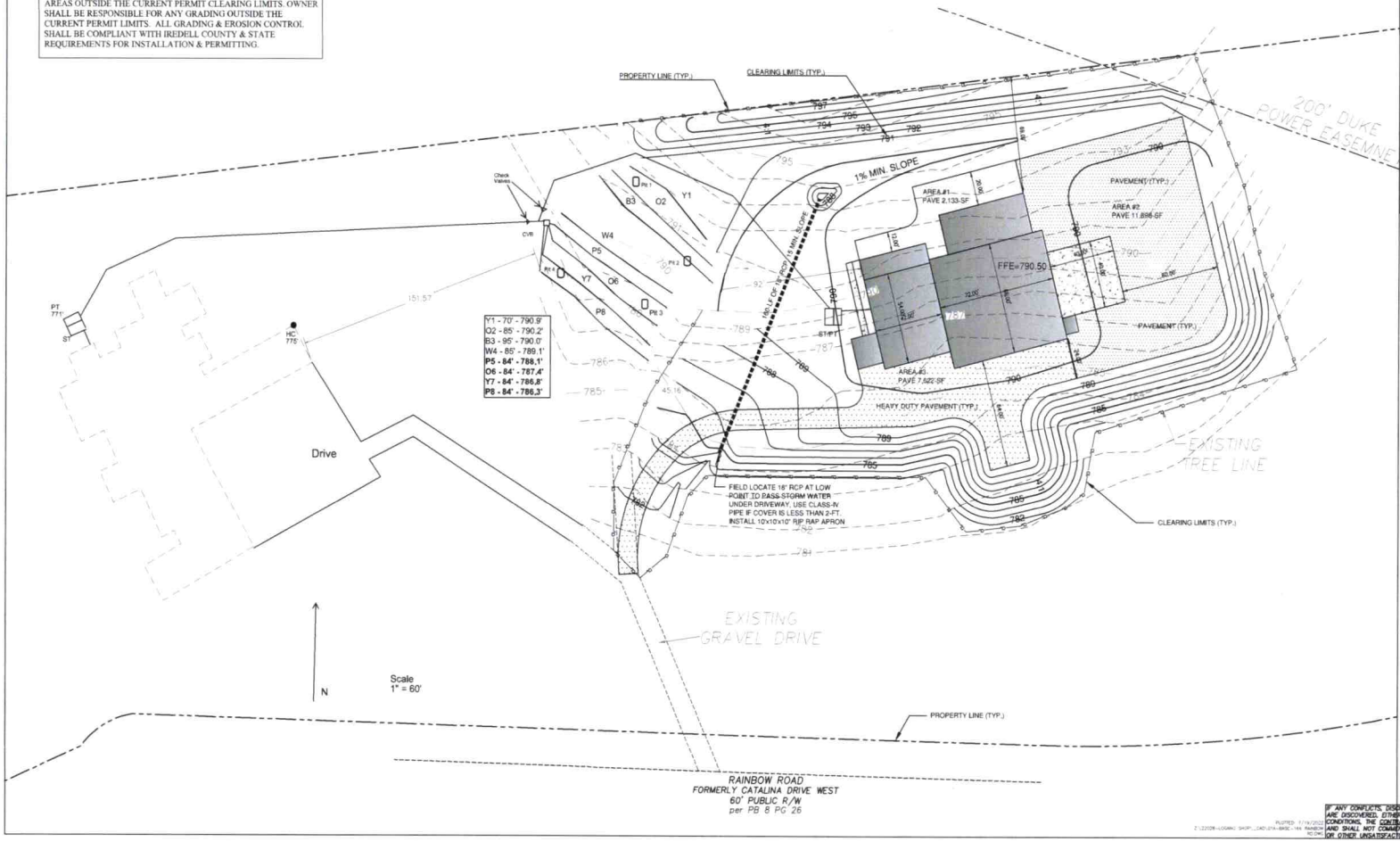
Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

EROSION CONTROL LEGEND
- RIP RAP APRON AT PIPE OUTLET
- RISER TYPE SEDIMENT BASIN
- GRAVEL AND RIP RAP SEDIMENT BASIN
- TEMPORARY RIPRAP FILTER BERM
- TEMPORARY SILT DITCH
- TEMPORARY SILT FENCE
- CLEARING LIMITS
- DRAINAGE AREA LIMITS
- STORM INLET SEDIMENT TRAP
- STONE INLET SEDIMENT TRAP (INSTALL SILT SACKS AFTER PAVING)
- TEMPORARY ROCK CHECK DAM
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY SEEDING (TS)
- PERMANENT SEEDING (PS)
- TEMPORARY STREAM CROSSING

LEGEND
PROPOSED
- 5' CONTOURS
- 1' CONTOURS
- SANITARY SEWER
- STORM SEWER
- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- GRATE INLET
- SPOT ELEVATION

EXISTING
- 5' CONTOURS
- 1' CONTOURS
- STORM SEWER
- SANITARY SEWER
- WATER LINE
- STORM SEWER MANHOLE (SMH)
- CURB INLET (CI)
- GRATE INLET/YARD INLET (GI/YI)

NOTE:
THIS SITE HAS AN OPEN EROSION CONTROL PERMIT, OWNER SHALL MODIFY THE CURRENT PERMIT TO ACCOUNT FOR ANY AREAS OUTSIDE THE CURRENT PERMIT CLEARING LIMITS. OWNER SHALL BE RESPONSIBLE FOR ANY GRADING OUTSIDE THE CURRENT PERMIT LIMITS. ALL GRADING & EROSION CONTROL SHALL BE COMPLIANT WITH IREDELL COUNTY & STATE REQUIREMENTS FOR INSTALLATION & PERMITTING.



IF ANY CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR THE FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

PLOTTED: 7/19/2022
Z:\22028-LOGAN\ SHOP\ _CAD\ DTA-BASE-\ 166 RAINBOW RD.DWG

APPROVED DEC 2 8 2022

Woodbine Design, P.C.
Land planning & civil engineering
www.woodbinedesign.com
info@woodbinedesign.com
980.722.2859
2818 N. 6th Street, Suite 204
Gastonia, NC 28052
704.215.8267

PRELIMINARY NOT FOR CONSTRUCTION

SEAL
SEAL 040403

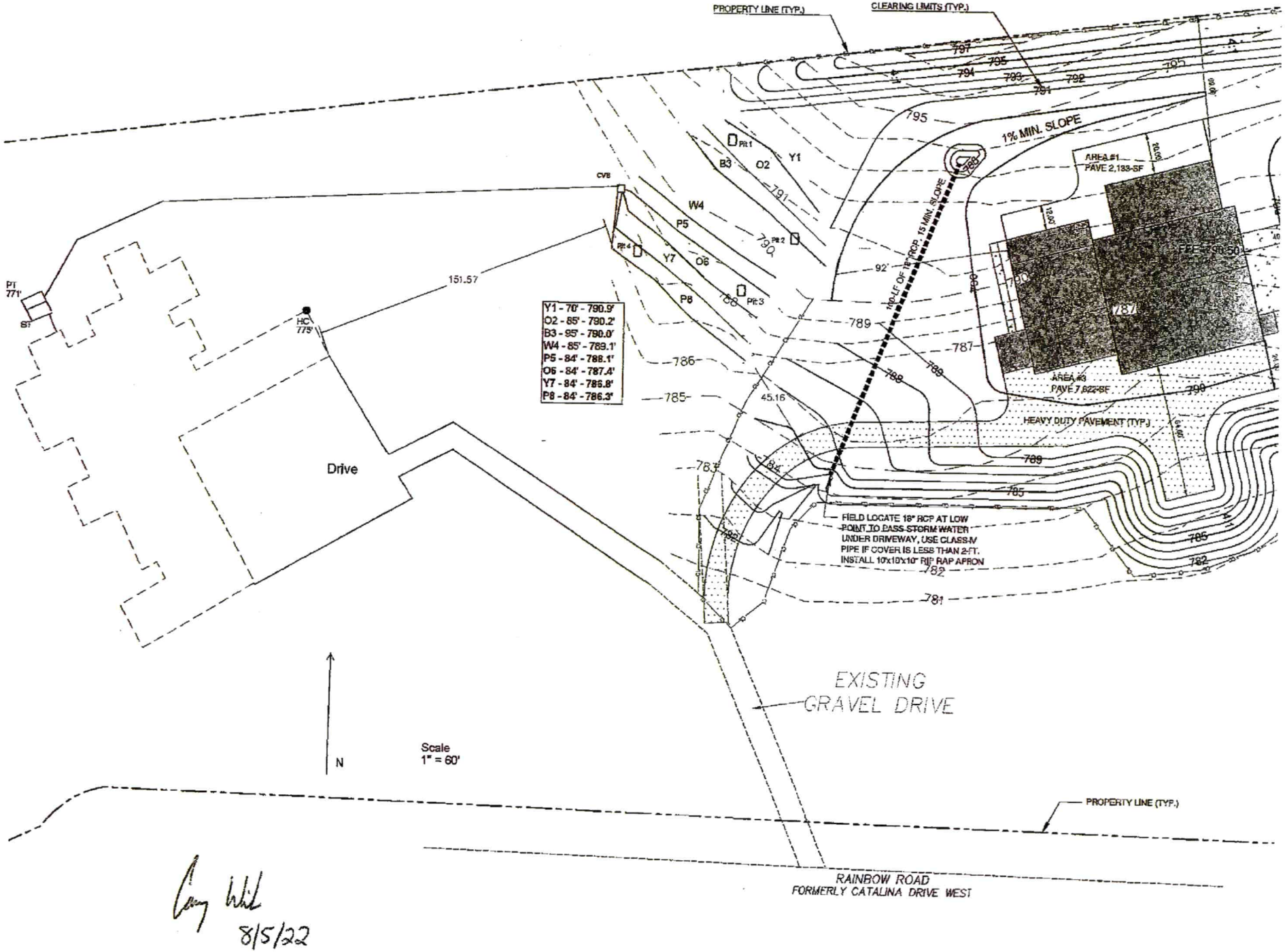
NORTH ARROW
Graphic Scale 1" = 30 ft.

Project: RAINBOW RD SHOP
Location: 166 RAINBOW RD., IREDELL COUNTY, NC
Sheet Title: GRADING PLAN

DEVELOPER/OWNER
FIVE EVEN HOME, LLC

Designed By	WOODBINE
Drawn By	PW
Date	7/19/22
Revisions	7/19/22-PAVEMENT-GRADES

Sheet: C2 of 2
Project Number: 22028



Cory Wil
8/5/22

Cory Mid 8/5/22

PROPERTY ID #: 4646116396__
COUNTY: __Iredell_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Five Ever Home LLC_____ APPLICATION DATE_____
ADDRESS: 9911 Rose Common Dr, Huntersville, NC 28078_____ DATE EVALUATED: _1/2021_____
PROPOSED FACILITY: ___5 BDRM_____PROPOSED DESIGN FLOW (.1949): _600 GPD_____ PROPERTY SIZE: _12.851 AC_____
LOCATION OF SITE: 166 RainbowRd_____ PROPERTY RECORDED: _____
WATER SUPPLY: X Private ☐ Public X Well ☐ Spring ☐ Other _____
EVALUATION METHOD: Auger Boring X Pit ☐ Cut TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		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 7%	0-20	R C SBK	FR SS SP SXP	N/A	56"	N/A	N/A	PS 0.3
		20-56	R CL WSBK	FR SS SP SXP					
2	LS 7%	0-7	FILL		N/A	60"	N/A	N/A	PS 0.3
		7-24	R C SBK	FR SS SP SXP					
		24-60	R CL WSBK	FR SS SP SXP					
3	LS 10%	0-8	FILL		N/A	54"	F-C SAP	N/A	PS 0.3
		8-22	R C SBK	FR SS SP SXP					
		22-54	R CL WSBK	FR SS SP SXP					
4	LS 10%	0-6	FILL	FR SS SP SXP	N/A	51"	N/A	N/A	PS 0.3
		6-24	R C SBK	FR SS SP SXP					
		24-51	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	672 FT^2	670 FT^2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

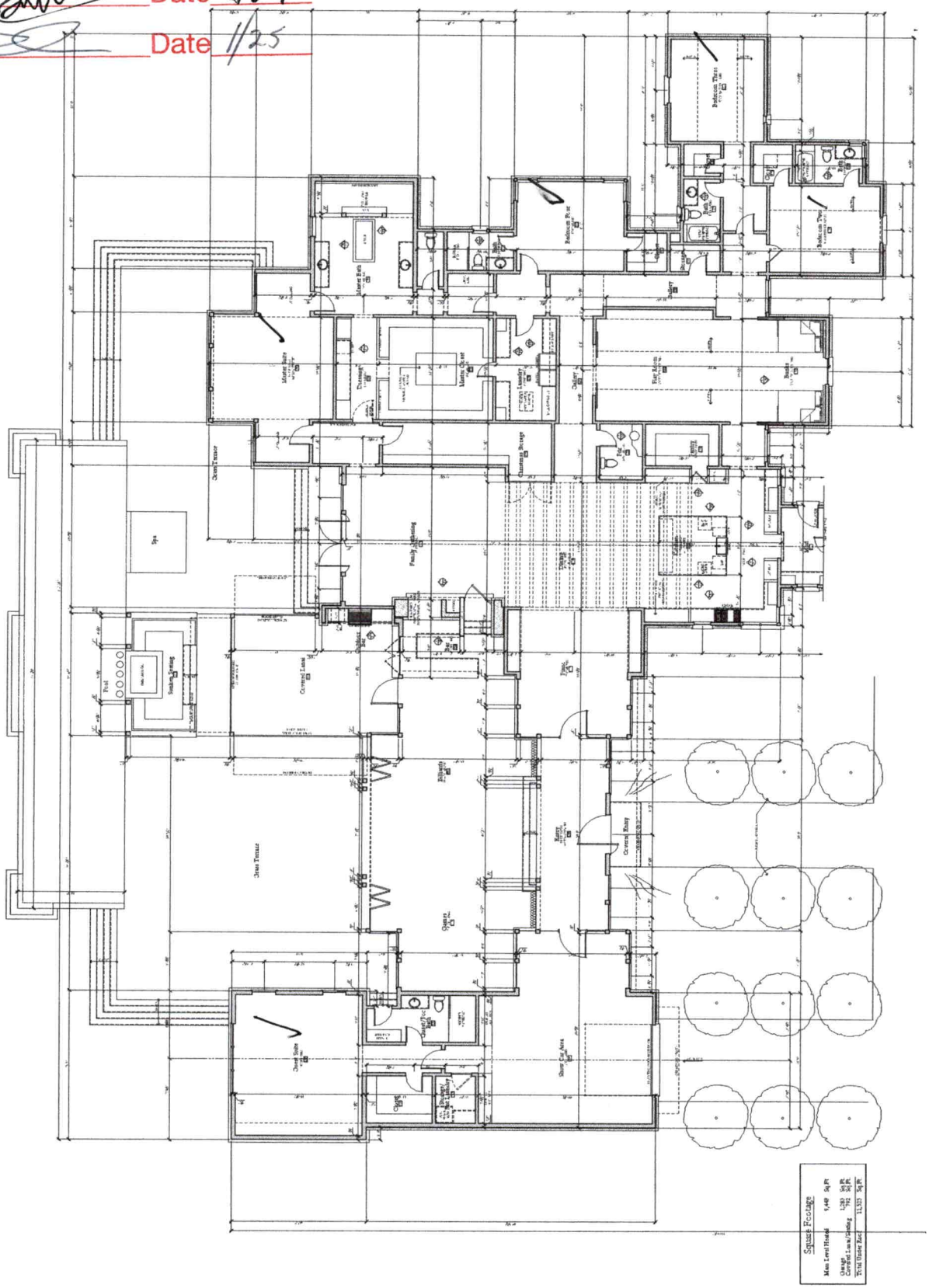
OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS:_

Acknowledgement Of
Plans Submittal ONLY!

Date 1/22/2021.

Date 1/25



RECEIVED AUG 03 2022

CW

OSWP-2022-0418

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-329280 $350.00

Application For:
( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit (X) Authorization to Construct ( ) Existing System Inspection ( ) 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) Please contact Gary McNeely (704-310-1832) prior to evalution

Applicant Name: Joseph Logan **Address:** 166 Rainbow RD **Zip:** 28117
Applicant Email: Joe@joelogan.com **Phone:** 704-363-3545 **Alt. Phone:**
Owner Name: Same **Address:** **Zip:**
Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 166 Rainbow Rd

Subdivision Name: **Section/Phase:** **Lot Number:**

Driving Directions:

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

(X) 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: 5
Maximum Number of Occupants: 10
( ) Swimming Pool
(X) Other Addition/Structure: Garage/Shop

CHECK FOUNDATION TYPE
(X) Crawl Space Foundation
(X) 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: Number of Persons:
( ) New Well (X) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: ***(you may rank in order of preference)*** Year existing system installed:
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative (X) 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 (X) 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: 7/21/2022
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

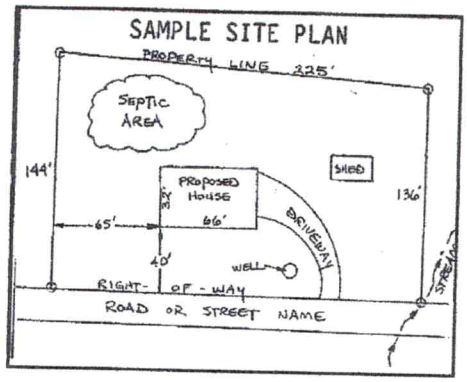
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL 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**
( ) **Preferred well location**
( ) **Preferred septic system location**
( ) **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

See Attached Plan

Signature: _____ 7/21/2022

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