MW BLDR-2023-39876

# ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 2023-30260

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

PIN # 4820 -- 83 -- 1961 ✓

APPLICANT/OWNER: Matthew Link APPLICANT ADDRESS: 408 Grant Rd, Statesville

SITE ADDRESS: 406 Grant Rd, Statesville 28625 ✓ PHONE: 704-881-1947 ALT. PHONE -

SITE DIRECTIONS: 115 N - Dobson Farm - Grant SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Link Subdivision ✓ SECTION: - LOT # 4 ✓ LOT AREA: 1.6054 acres DESIGN FLOW: 360 gpd L.T.A.R.: 0.3I/0.1R

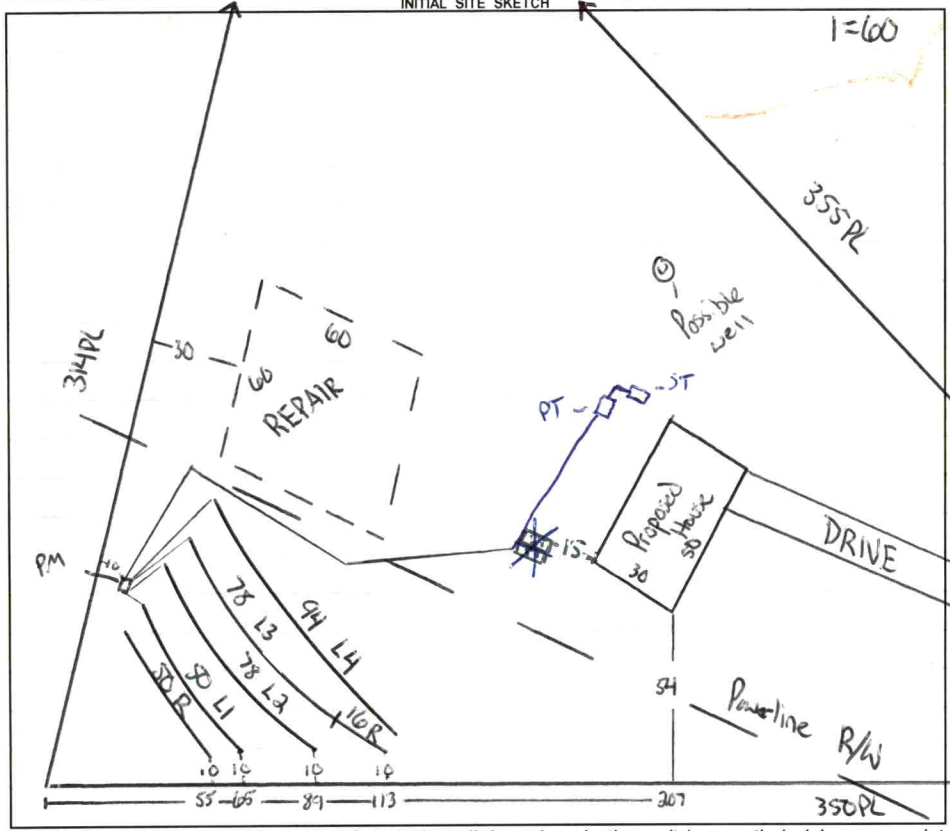
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Septic Tank | 1000 (gal) | STB | 760 | Date | 11/20/23 | ☒ New System ☐ Repair ☐ Expansion | System Type: I II (III) IV V VI | ☒ Residence | No. Bedrooms 3 |
| Pump Tank | 1000 (gal) | PT | 363 | Date | 11/4/23 | System Description: | 25% reduction (pm) | ☐ Business | No. Persons 6 |
| Pump Make | Zoeller | Model | T52 | Serial # | | Repair System Description: | TS11-DRIP | ☐ Other | No. Employees |
| # Nitrification Fields | 1 | # Lines | 5 | Linear Ft | 300' | Maintenance Agreement Required: | ☐ YES ☒ NO | ☐ Slab | ☒ Crawl Space |
| Trench Width | 36 in | Trench Bottom Depth(Low side) | 24 in | Gravel Depth | - | | ☐ GRAVITY ☒ PRESSURE | ☐ Basement w/plumbing | ☐ Basement w/o plumbing |

**Water Supply**: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Install on contour with the land. Do not drive, park, or grade septic area. Do not exceed 36 inch max.

* House plans larger than proposed box. Must keep 15' from septic Tanks*. Easement book 3016 pg 17-23
Keep 15' from power poles.

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.**

L1 = 1/2 sch 80
L2, L3 = (2) 1/2 sch 40
L4 = 3/4 sch 80

*Needs powerline agreement *

Dose = 136.5
Flow = 29.8
Time = 4.58 min
Drawdown = 6.5 in
2 ft head
2 inch supply

Installed as Drawn

Tanks CW
Lines 12/15/23
BLW 2-26-2024
- FLOATS
- ALARM
- P.M.
- P.H.
- ELECTRIC

*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: TB Grading

IMPROVEMENT PERMIT by: Cory Hill Date: 8/22/23 OPERATION PERMIT by: Bryant C White Date: 2-26-2024

AUTHORIZATION TO CONSTRUCT by: Cory Hill Date: 9/19/23 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? _____ | |

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

Sheet 1 of 2
PROPERTY ID #: 4820831961
COUNTY: Iredell

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

OWNER: Matthew Link — APPLICATION DATE 7/7/23
ADDRESS: 408 Grant Rd, Statesville — DATE EVALUATED: 8/11/23
PROPOSED FACILITY: 3 bd/r home — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 1.60 54
LOCATION OF SITE: 406 Grant Rd, Statesville — PROPERTY RECORDED: yes
WATER SUPPLY: 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) .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 | Foot 8% | 0 - 12 | PLOW | | 10yr 6/2 at 20"+ | 48 | - | - | US |
| | | 12 - 20 | C SBK | S P FR SE | | | | | |
| | | 20 - 48 | CL ABK | SS SP FR SE | | | | | |
| 2 | Linear 8% | 0 - 18 | SCL SBK | SS SP FR SE | 10yr 6/2 at 18"+ | 48 | - | - | DRIP .1 |
| | | 18 - 48 | C ABK | S P FR SE | | | | | |
| 3 | Linear 9% | 0 - 12 | PLOW | | 10yr 6/2 at 20"+ | 48 | - | - | US |
| | | 12 - 48 | C ABK | SS SP FR SE | | | | | |
| 4 | Linear 11% | 0 - 12 | PLOW | | 10yr 6/2 at 19" | 48 | - | - | US |
| | | 12 - 48 | C ABK | S P FR SE | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | 257 | DRIP |
| Site LTAR | .3 | .1 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Cory Whicker
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.

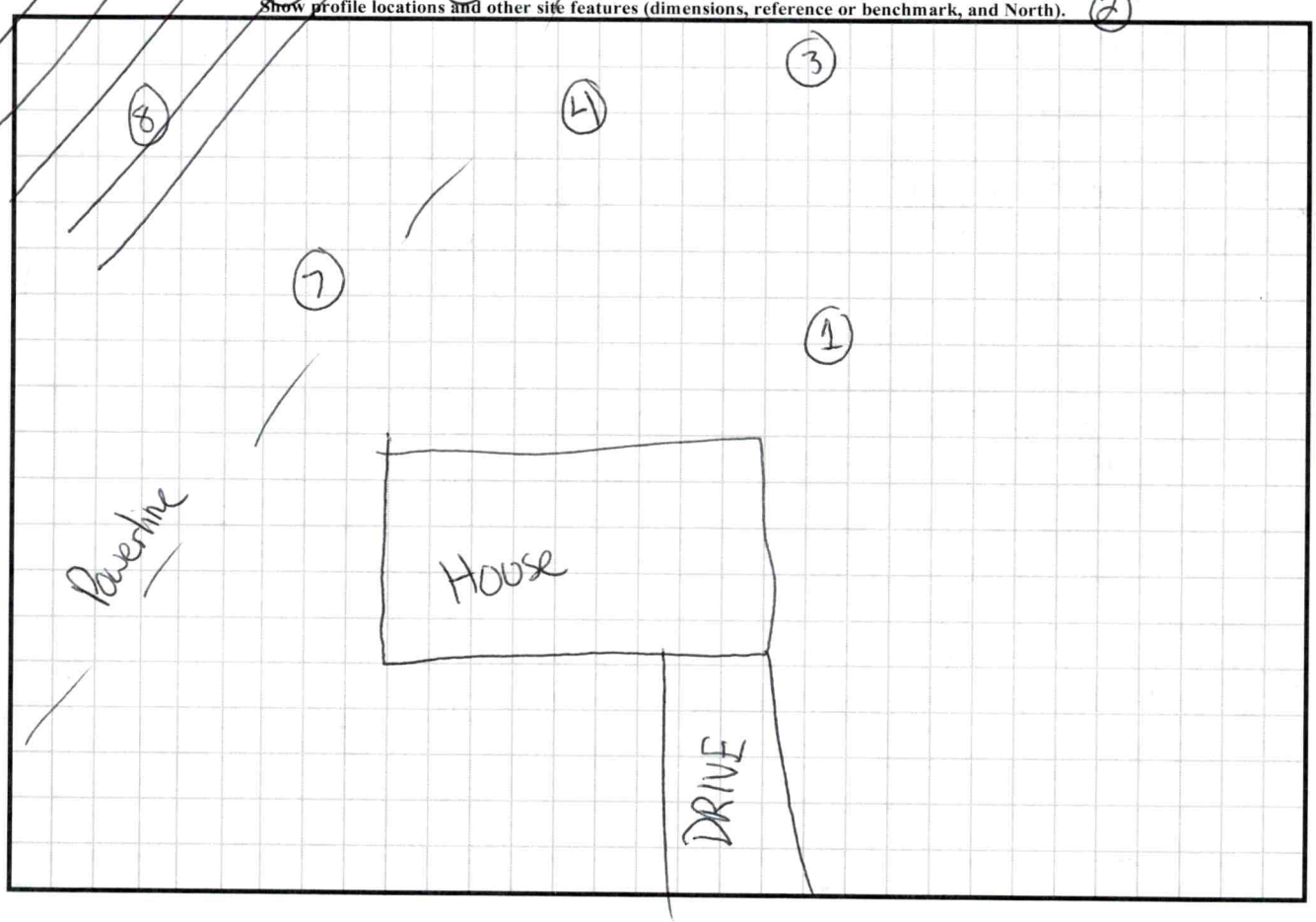
***NOTES***

| | |
|---|---|
| *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/ft²

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



# SOIL/SITE EVALUATION

*(Continuation Sheet-Complete all field in full)*

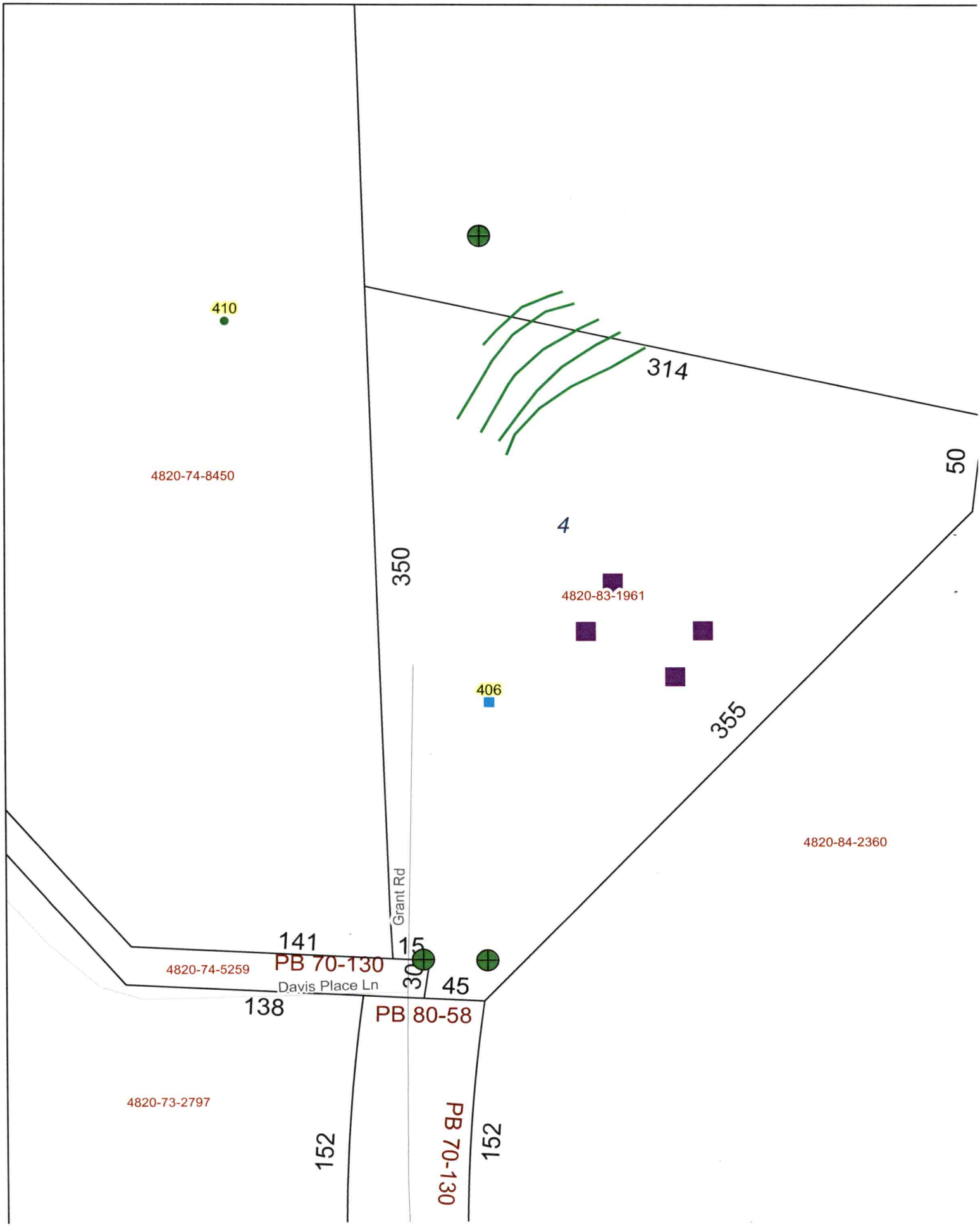


DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4820831961
DATE OF EVALUATION: 8/1/23
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 | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 5 | Linear 11% | 0-12 | PLOW | | 10yr 6/2 at 28" | 48 | - | - | .1 DRIP |
| | | 12-28 | C ABK | S P FR SE | | | | | |
| | | 28-48 | CL SBK | SS SP FR SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 6 | Linear 10% | 0-9 | PLOW | | - | 48 | Rock at | inc 30" | .3 PS |
| | | 9-30 | C ABK | SS SP FR SE | | | | | |
| | | 30-48 | CL SBK | SS SP FR SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 7 | Linear 12% | 0-8 | PLOW | | 2.5yr 6/2 21"-28" | 48 | - | - | .1 DRIP DEEP |
| | | 8-30 | C ABK | S P FR SE | | | | | |
| | | 30-48 | CL SBK | SS SP FR SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 8 | Linear 13% | 0-8 | PLOW | | - | 52 | - | - | .3 PS |
| | | 8-21 | C SBK | SS SP FR SE | | | | | |
| | | 21-52 | CL SBK | SS SP FR SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 9 | Linear 13% | 0-12 | PLOW | | - | 50 | SAP inc | & Litho at 33" | .3 PS |
| | | 12-31 | C SBK | SS SP FR SE | | | | | |
| | | 31-50 | CL SBK | SS SP FR SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

COMMENTS: _____


410
314
50
4820-74-8450
4
350
4820-83-1961
406
355
4820-84-2360
Grant Rd
141
15
4820-74-5259
PB 70-130
Davis Place Ln
30
45
138
PB 80-58
4820-73-2797
152
PB 70-130
152

# PERMIT SNAPSHOT REPORT OSWP-2023-30260 FOR IREDELL COUNTY

**Permit Type:** Environmental Health OSWP
**Work Class:** EH Septic Permit
**Status:** In Progress
**Valuation:** $0.00
**Project:**
**District:** Iredell County
**Square Feet:** 0.00
**Assigned To:** Whicker, Cory
**App Date:** 07/07/2023
**Exp Date:** NOT AVAILABLE
**Completed:** NOT COMPLETED
**Approval Expire Date:**

**Description:** 8/1 Spoke w/applicant site ready GM Site visit, site ready. GM

**Parcel:** 4820831961.000 Main
**Address:** 406 Grant Rd Statesville, NC 28625 Main
**Zone:** RA(Residential Agricultural District)

Property Owner
Matthew Link
Home: (704) 881-1947
Mobile: (704) 881-1947

Applicant/Authorized Agent
Matthew Link
408 grant road
Statesville, NC 28625
Mobile: (704) 881-1947

**Permit Custom Fields**

| | | | | | |
|---|---|---|---|---|---|
| How is your site plan being submitted | Survey Plat | Septic Application/Permit Type | Improvement Permit, Re-Layout/change septic permit (sys not installed) | Does the site contain any jurisdictional wetlands | No |
| Non-domestic Sewage Generated | No | Other Public Agency | No | All proposed structure dimensions | 50x30 |
| What are the proposed structures | New Single Family Residence | Type of New Single-Family Residence | Stick Built | Maximum Number of Bedrooms | 3 |
| If other Addition/Structure, please explain | | Number of Occupants | 2 | Foundation Type | Crawl Space Foundation |
| Water Supply | New Well | Desired Septic System Type | Conventional (most common) | Lot Acreage | 1.6024 |
| Front Setback | 35 | Back Setback | 35 | Left Setback | 15 |
| Right Setback | 15 | Additional Unique Setbacks Apply | No | Watershed | NOT IN A WATERSHED |

| Attachment File Name | Added On | Added By | Attachment Group | Notes |
|---|---|---|---|---|
| Signature_Matthew_Link_7/8/2023.jpg | 07/07/2023 20:14 | Link, Matthew | | Uploaded via CSS |
| 406 GRANT RD AUTHORIZATION FORM.pdf | 07/10/2023 10:57 | Sloan, Chrystal | | |
| 406 GRANT RD SITE PLAN WITH SETBACKS.pdf | 07/10/2023 10:59 | Sloan, Chrystal | | |

| Inspection Number | Status | Inspection Type | Request Date | Scheduled Start Date | Scheduled End Date | Actual Start Date | Actual End Date |
|---|---|---|---|---|---|---|---|
| 2023-121602 | Passed - Permit | OSWP Septic/Well Preliminary Site Visit | 08/01/2023 | 08/01/2023 0:00 | 08/01/2023 0:00 | 08/01/2023 15:15 | 08/01/2023 15:15 |

**Inspectors:** McLeod, Grace (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. 8/1 Applicants property in the back goes beyond the fenced in area but he will only be building within the fenced area. GM | Grace McLeod | 08/01/2023 15:15 |

| Invoice No. | Fee | Fee Amount | Amount Paid |
|---|---|---|---|
| INV-00017273 | Iredell Zoning Tech Fee | $2.25 | $2.25 |
| | Iredell Zoning Permit Fee | $75.00 | $75.00 |
| | New Gravity System | $500.00 | $500.00 |
| | Total for Invoice INV-00017273 | $577.25 | $577.25 |
| | **Grand Total for Permit** | **$577.25** | **$577.25** |

# PERMIT SNAPSHOT REPORT (OSWP-2023-30260)

| Workflow Step / Action Name | Action Type | Start Date | End Date |
|---|---|---|---|
| **Application Completeness Check v.1** | | 07/10/2023 15:20 | 07/10/2023 15:21 |
| Confirm application complete v.1 | Generic Action | | 07/10/2023 15:21 |
| **Fees v.1** | | 07/17/2023 9:08 | 07/28/2023 11:24 |
| Issue Invoice v.1 | Generic Action | | 07/17/2023 9:08 |
| Fees Paid v.1 | Generic Action | | 07/28/2023 11:24 |
| **Zoning Review v.1** | | 07/10/2023 15:20 | 07/28/2023 11:36 |
| ~~Floodplain Admin Overview v.1~~ | Task | | 07/11/2023 10:12 |
| Iredell County Zoning Approval v.1 | Task | 07/10/2023 15:20 | 07/28/2023 11:36 |
| Issue Invoice v.1 | Generic Action | | 07/11/2023 10:12 |
| Fees Paid v.1 | Generic Action | | 07/28/2023 11:24 |
| **Lot Readiness Verification v.1** | | 08/01/2023 15:14 | |
| OSWP Septic Preliminary Site Visit v.1 | Inspection | 08/01/2023 15:14 | 08/01/2023 15:16 |
| 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 | | |

1 | Plow 0-12 10yr 6/2
SCL 12-20 SBK at 20"
C 20-48 ABK

2 | SCL 0-18 10yr 6/2
C 18-48 ABK at 18"

3 | Plow 0-12 10yr 6/2
C 12-48 ABK at 20"

4 | PLOW 0-12 10yr/6/2
C 12-48 ABK at 19"

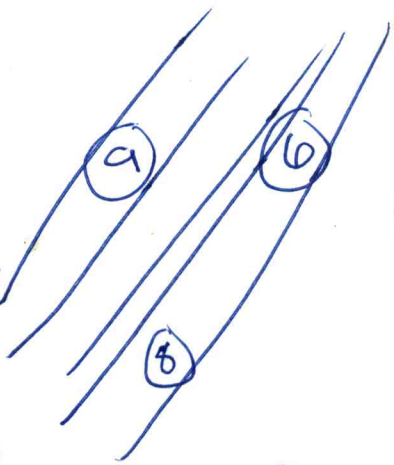
5 | Plow 0-12 10yr 6/2
C 12-28 ABK at 28"
CL 28-48 SBK

6 | PLOW 0-9 Rock inc .3
C 9-30 ABK at 30" PS
10yr CL 30-48 SBK

7 | Plow 0-8 2.5y 6/2
C 8-36 21"-28"
CL 30-48

8 | 0-8 PLOW .3
8-21 C SBK PS
21-52 CL SBK

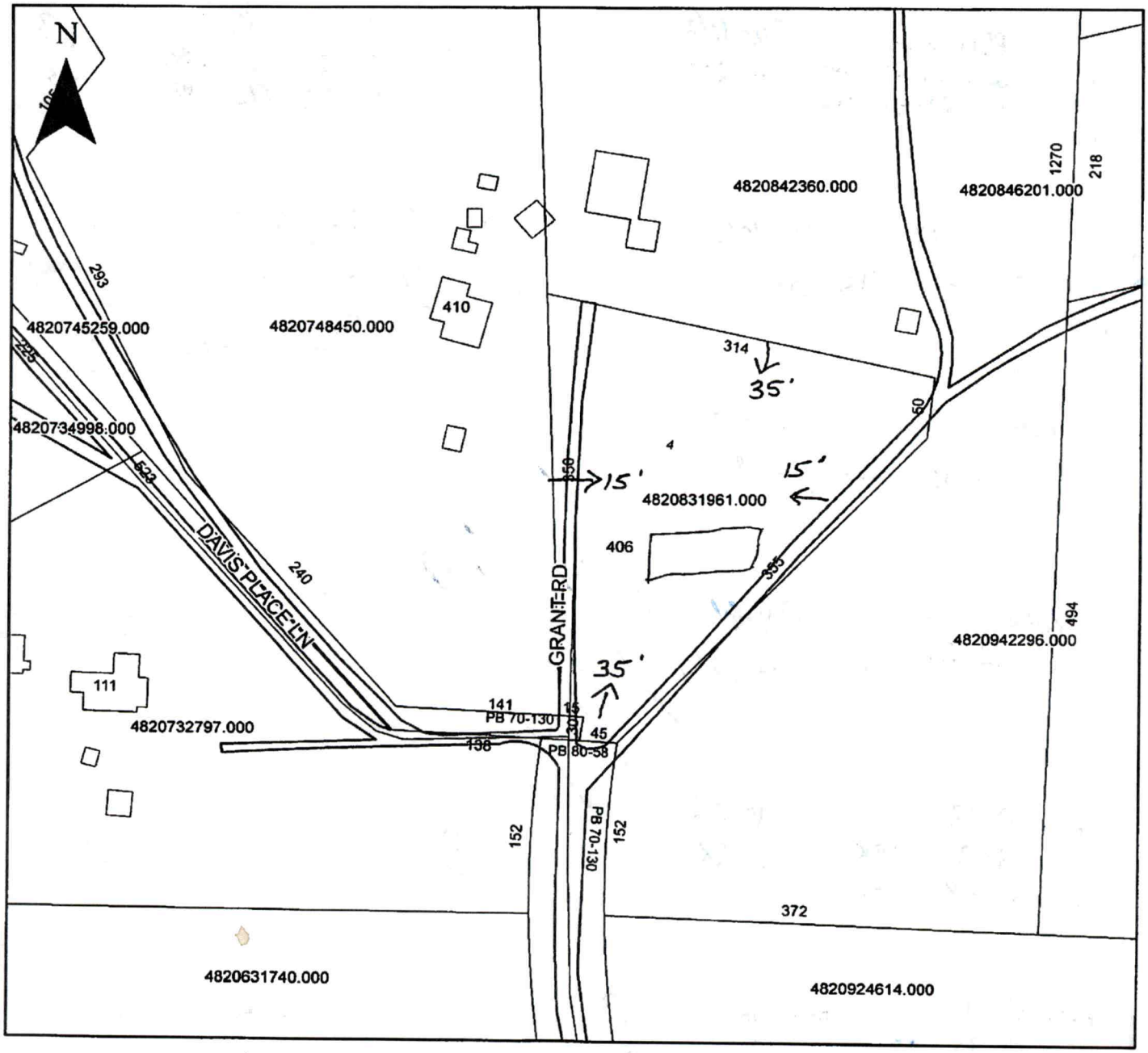
9 | 0-12 Plow Sup
12-31 C SBK including PS
15% 31-50 CL SBK Litho .3
at 33




5 4 3 2 1 1

House

# ZONING DISCLAIMER




Property Address 406 Grant Rd.

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions, plat conditions, and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Applicant

7/10/23
Date

Soil Map—Iredell County, North Carolina




Map Scale: 1:3,200 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Iredell County, North Carolina
Survey Area Data: Version 28, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 13, 2022—May 9, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| BaC | Bandana-Tate-Nikwasi complex, 0 to 15 percent slopes, frequently flooded | 2.2 | 9.8% |
| CmC2 | Clifford sandy clay loam, 6 to 10 percent slopes, moderately eroded | 1.0 | 4.3% |
| FrC2 | Fairview sandy clay loam, 6 to 10 percent slopes, moderately eroded | 3.8 | 17.0% |
| FrD2 | Fairview sandy clay loam, 10 to 15 percent slopes, moderately eroded | 1.0 | 4.6% |
| RhF | Rhodhiss-Stott Knob complex, 25 to 60 percent slopes, stony | 2.4 | 10.6% |
| WfD2 | Woolwine-Fairview-Westfield complex, 8 to 15 percent slopes, moderately eroded | 9.1 | 40.6% |
| WoE | Woolwine-Fairview-Westfield complex, 15 to 25 percent slopes, stony | 2.9 | 13.1% |
| **Totals for Area of Interest** | | **22.4** | **100.0%** |