# ICHD - ENVIRONMENTAL HEALTH DIVISION

BLDR-2024-58577 SW

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

PERMIT: OSWP 2024-51350

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

PIN # 4779-93-0223

APPLICANT/OWNER: Eagle Mills Investments | APPLICANT ADDRESS: 275 Dutchman Rd, Harmony 28634

SITE ADDRESS: 123 Arrowood Rd, Harmony NC 28634 | PHONE: 704-902-0937 | ALT. PHONE: —

SITE DIRECTIONS: Mt. Bethel - R Rimrock - L Arrowood - Lot on L | SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Archers Ridge | SECTION: — | LOT # 4 | LOT AREA: .46 | DESIGN FLOW: 480 gpd | L.T.A.R.(Initial): .3 | L.T.A.R (Repair): .3

Septic Tank 1000 (gal) STB 7608 Date —

Pump Tank (gal) PT Date

Pump Make Model Serial #

# Nitrification Fields 1 # Lines 4 Linear Ft 267'

Trench Width 24" *Max. Trench Depth(Initial) 33" *Max. Trench Depth(Repair) 33" Gravel Depth —

* Measured on the downhill side of the trench

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

System Description: 50% Reduction - VPPBPS

Repair System Description: 50% Reduction

Maintenance Agreement Required: ☐ YES ☑ NO

☑ GRAVITY ☐ PRESSURE

Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40

Usable Depth to LC (Initial): 48" | Usable Depth to LC (Repair): 48" *Limiting Condition*

☑ Residence No. Bedrooms 4

☐ Business No. Persons 8

☐ Other No. Employees

☐ Slab ☑ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

**Water Supply**

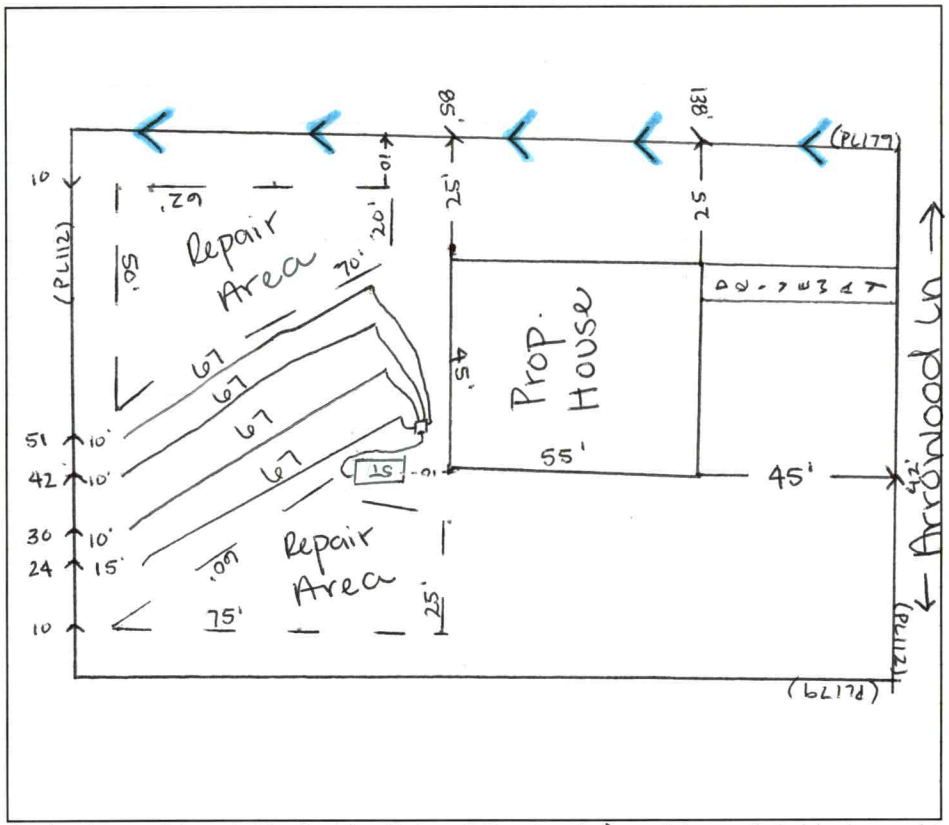
☐ Private

☑ Public

☐ Community

Comments / Conditions: Do not pave, grade, park, drive, or bury utilities in drainfield. Keep 10' off storm water ditch.

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.**

Storm water ditch

1" = 40'

See attached GPS for AS BUILT SKETCH

*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 Date: —

IMPROVEMENT PERMIT by: Sydney Holland Date: 5-9-24

AUTHORIZATION TO CONSTRUCT by: Sydney Holland Date: 8-1-24

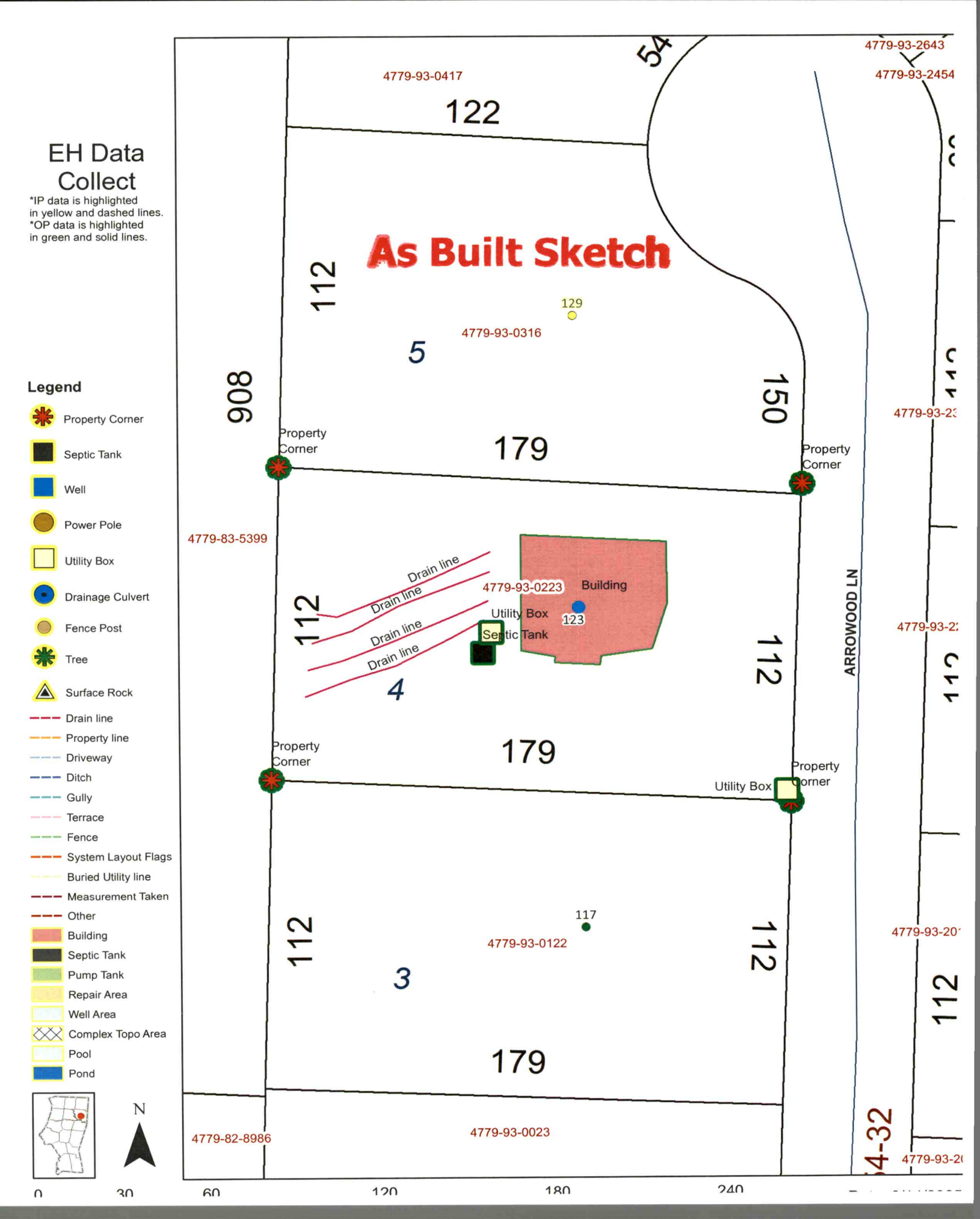
Installed by: A1 BACKHOE

OPERATION PERMIT by: Sarah Williams Date: 3/13/2025

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? _____ | |


EH Data Collect
*IP data is highlighted in yellow and dashed lines.
*OP data is highlighted in green and solid lines.
As Built Sketch
Legend
Property Corner
Septic Tank
Well
Power Pole
Utility Box
Drainage Culvert
Fence Post
Tree
Surface Rock
Drain line
Property line
Driveway
Ditch
Gully
Terrace
Fence
System Layout Flags
Buried Utility line
Measurement Taken
Other
Building
Septic Tank
Pump Tank
Repair Area
Well Area
Complex Topo Area
Pool
Pond
N
0
30
60
120
180
240
4779-93-0417
4779-93-2643
4779-93-2454
122
112
129
4779-93-0316
5
908
150
179
Property Corner
Property Corner
4779-83-5399
Drain line
Drain line
Drain line
Drain line
4779-93-0223
Building
Utility Box
123
Septic Tank
112
112
4
ARROWOOD LN
179
Property Corner
Property Corner
Utility Box
117
4779-93-0122
112
112
3
179
4779-82-8986
4779-93-0023
4779-93-23
4779-93-22
4779-93-20
4779-93-2(

123 Arrowood Ln Harmony

SH - 8/1/24

PRINTER NOTE: DRAWINGS PRINTED TO SCALE ON 36" w X 24" l PAPER SIZE

PRELIMINARY
PRELIMINARY INFORMATION ONLY
NOT FOR CONSTRUCTION

## FLOOR PLAN NOTES

1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION
2. ALL DIMENSIONS ARE TO OUTSIDE OF CONCRETE WALL, C.M.U. WALL, VENEER OF PIER & CURTAIN WALL OR OUTSIDE FACE OF STUD.
   NO WALL FINISHES, SIDING OR VENEERS ARE ASSUMED
3. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL SITE CONDITIONS
4. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE AND MAY DIFFER FROM ACTUAL CONSTRUCTED RESIDENCE OR BUILDING
5. VERIFY ALL FINISHES (INTERIOR & EXTERIOR) TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION
6. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY ALL ROUGH OPENING SIZES.
7. CONTRACTOR TO LOCATE HVAC UNITS AND WATER HEATER AT SITE
8. ANGLES IN WALLS TO BE ASSUMED 45°, TYP. U.N.O.
9. VERIFY LOCAL CODE FOR LOCATION OF TEMPERED GLAZING REQUIREMENTS
10. EXTERIOR WALLS ARE TO BE 2X4 @ 16" O.C. TYP. UNLESS NOTED OTHERWISE
11. INTERIOR WALLS ARE TO BE 2X4 @ 16" O.C. TYP. UNLESS NOTED OTHERWISE
12. DOUBLE HUNG WINDOW STYLE IS TO BE TYPICAL UNLESS NOTED OTHERWISE COORDINATE COLORS AND SERIES TYPE WITH OWNER AND MANUFACTURER

## DOOR NOTES

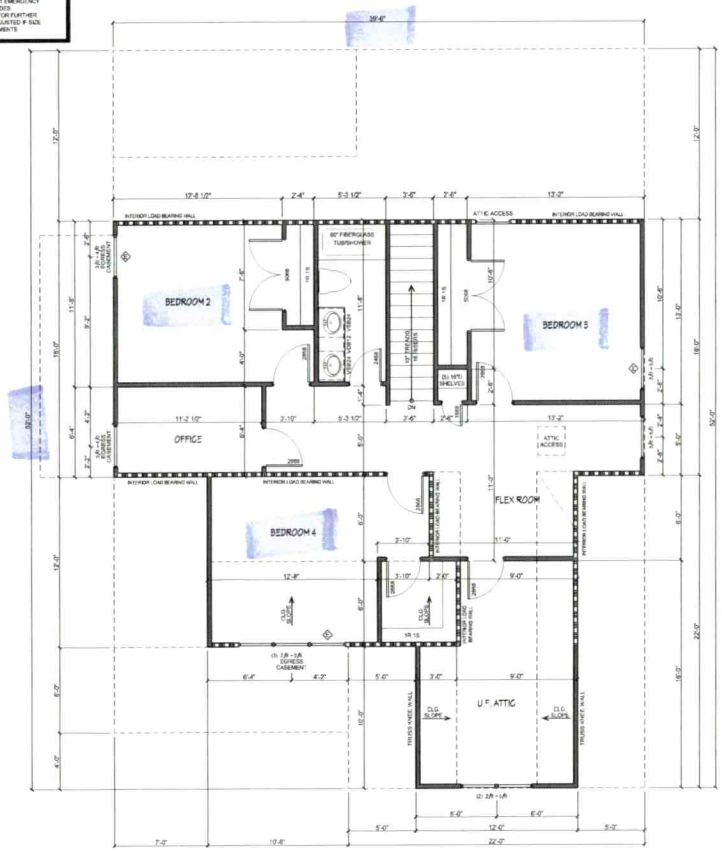
DOOR HEIGHT
FEET & INCHES (6'-8")

DOOR WIDTH
FEET & INCHES (2'-6")

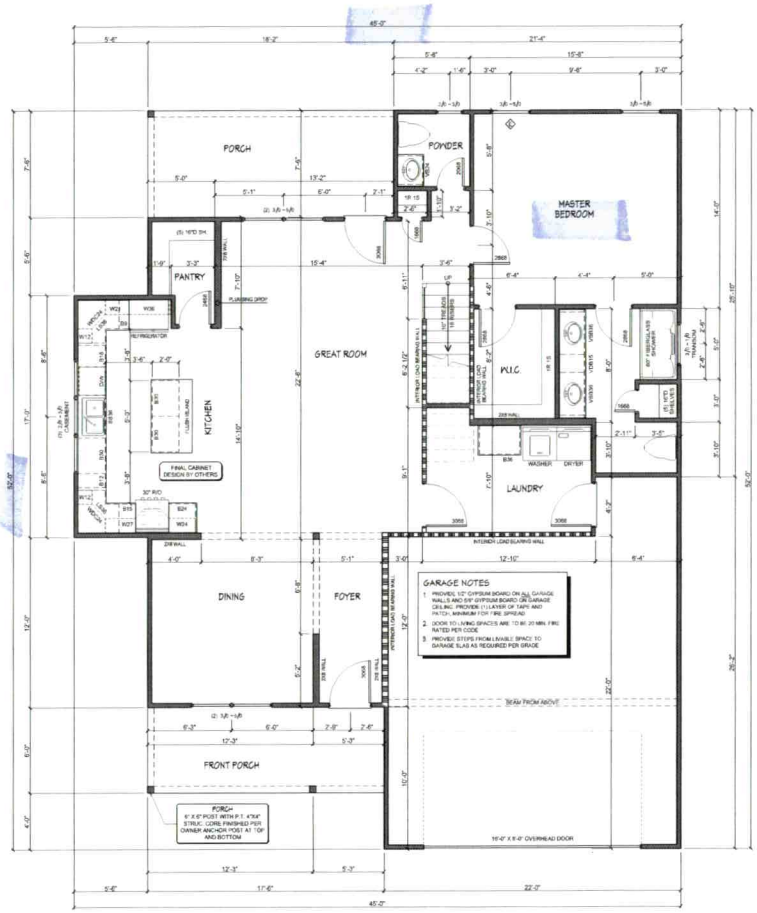
1. PROVIDE WEATHER STRIPPING ON ALL DOORS TO UNHEATED SPACE AND EXTERIOR DOORS
2. ALL GLAZING IN DOORS IS TO BE TEMPERED
3. COORDINATE DOOR PANEL STYLE WITH OWNER
4. COORDINATE HARDWARE STYLE WITH OWNER
5. SEE ELEVATIONS FOR ADDITIONAL DOOR INFORMATION

## EGRESS NOTE

(E) SYMBOL INDICATES THAT THE WINDOW MUST MEET EMERGENCY EGRESS REQUIREMENTS PER LOCAL BUILDING CODES
SEE WINDOW MANUFACTURERS DESIGN MANUAL FOR FURTHER DETAILS / INFORMATION. WINDOW SIZE MAY BE ADJUSTED IF SIZE SHOWN IS INADEQUATE TO MEET LOCAL REQUIREMENTS




UPPER LEVEL PLAN




MAIN LEVEL PLAN


D&T HOME DESIGNS
DESIGNER
Phone: (704)-253-8080
eMail: DTHomeDesigns@GMail.Com



THESE DRAWINGS ARE INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF D&T HOME DESIGNS, LLC. ALL RIGHTS RESERVED
THIS DRAWING IS NOT TO BE REPRODUCED OR USED TO CONTRACT ANY BUILDING WITHOUT THE WRITTEN AUTHORIZATION OF D&T HOME DESIGNS, LLC
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D&T HOME DESIGNS, LLC HAS TAKEN GREAT CARE IN THE PREPARATION OF THESE PLANS HOWEVER SINCE CODES ARE SUBJECT TO CHANGE AND INTERPRETATIONS VARY WE DO NOT GUARANTY COMPLIANCE WITH ANY SPECIFIC CODE OR ORDINANCE. CONTRACTOR IS TO VERIFY COMPLIANCE AND MAKE MODIFICATIONS AS NEEDED. THESE PLANS SHOULD BE REVIEWED BY A LOCAL ENGINEER OR ARCHITECT FOR STRUCTURAL DESIGN COMPLIANCE. D&T HOME DESIGNS, LLC ASSUMES NO RESPONSIBILITY FOR ANY HOME CONSTRUCTED USING THESE PLANS.


## SQUARE FOOTAGE

| | |
|---|---|
| Main Level - Heated | 1395 S.F. |
| Upper Level - Heated | 989 S.F. |
| Front Covered Porch | 105 S.F. |
| Rear Covered Porch | 136 S.F. |
| Garage | 557 S.F. |
| Un-Finished Bonus | 172 S.F. |
| Total Heated = | 2338 S.F. |
| Total Under Roof = | 3238 S.F. |

## REVISIONS

| No | Date | By | Description |
|---|---|---|---|

Drawn By: DRG | Issue Date: 07.25.24

Customer Name:
Eagle Mills Investments, LLC

PRELIMINARY

House Plan 24A

Plan Design Number:
R-2024-175

Sheet Title:
FLOOR PLANS
SCALE: 1/4" = 1'-0"

Sheet No:
B3.0

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


PROPERTY ID #: 4779930223
COUNTY: Iredell

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

(Complete all fields in full)

OWNER: Eagle Mills Investments LLC DATE EVALUATED: 5/8/24
ADDRESS: 275 Dutchman Rd Harmony 28634
PROPOSED FACILITY: 4BR PROPOSED DESIGN FLOW (.0400): 480gpd PROPERTY SIZE: .46
LOCATION OF SITE: 123 Arrowood Ln, Harmony 28637 PROPERTY RECORDED: yes
WATER SUPPLY: (Public) Single Family Well Shared Well Spring Other _____ WATER SUPPLY SETBACK: -
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 | LS 6% | 0-7 | SCL/SBK | SS-SP-FR-SE | — | 54" | - | - | P.S .3 | 1" |
| | | 7-30 | C/SBK | SS-SP-FR-SE | | | | | | |
| | | 30-54 | CL/SBK | SS-SP-FR-SE | | | | | | |
| | | | | | Few mica inc. in CL | | | | | |
| 2 | LS 7% | 0-32 | C/SBK | SS-SP-FR-SE | — | 50" | - | - | P.S .3 | 2" |
| | | 32-50 | CL/SBK | SS-SP-FR-SE | | | | | | |
| | | | | | Some mica inc. in CL Few sap inc. 47"+ | | | | | |
| 3 | LS 11% | 0-30 | C/SBK | SS-SP-FR-SE | — | 48" | - | - | P.S .3 | 3" |
| | | 30-48 | CL/SBK | SS-SP-FR-SE | | | | | | |
| 4 | LS 11% | 0-5 | SCL/SBK | SS-SP-FR-SE | — | 48" | - | - | P.S .3 | 3" |
| | | 5-29 | C/SBK/MBK | SS-SP-FR-SE | | | | | | |
| | | 29-48 | CL/SBK | SS-SP-FR-SE | | | | | | |
| | | | | | Few sap inc. 46"+ | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.0508) | 267' | 267' |
| System Type(s) | 50% | 50% |
| Site LTAR | .3 | .3 |
| Maximum Trench Depth | | |

SITE CLASSIFICATION (.0509): P.S
EVALUATED BY: S. Holland
OTHER(S) PRESENT: _____

Comments: _____

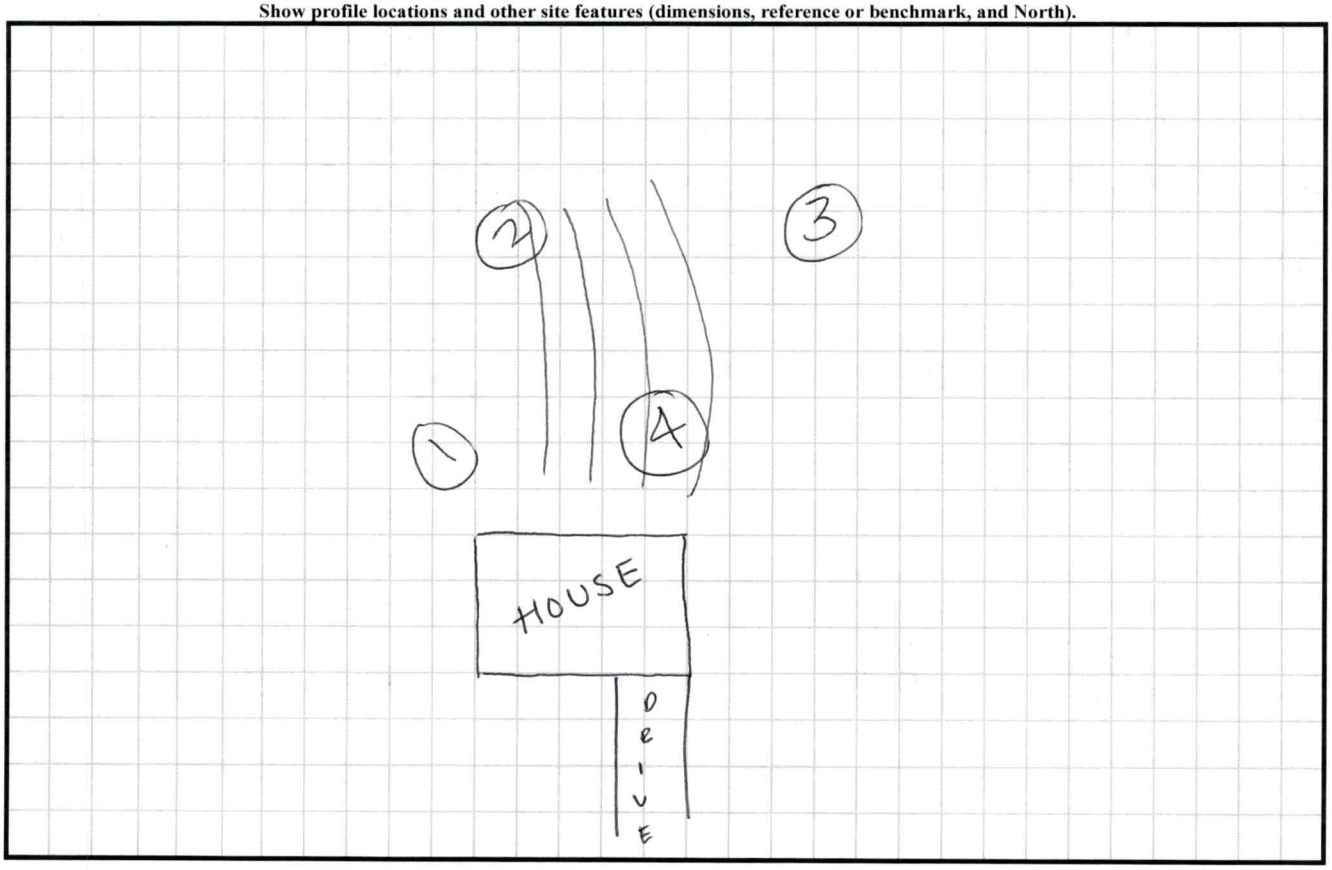
# LEGEND

| 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).**



# PERMIT SNAPSHOT REPORT OSWP-2024-51350 FOR IREDELL COUNTY

| | | | | | |
|---|---|---|---|---|---|
| **Permit Type** | Environmental Health OSWP | **Project:** | | **App Date:** | 04/15/2024 |
| **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:** | Holland, Sydney | **Approval Expire Date:** | |
| **Description:** | New Single Family Residence. Site ready 4/24/24 -BM | | | | |

| | | |
|---|---|---|
| **Parcel:** 4779930223.000 Main | **Address:** 123 Arrowood Ln Harmony, NC 28634 Main | **Zone:** RA(Residential Agricultural District) |

| Property Owner | Applicant/Authorized Agent | Applicant/Authorized Agent |
|---|---|---|
| Eagle Mills Investments LLC<br>275 Dutchman Road 275 Dutchman Road<br>Harmony, NC 28634<br>Business: (704) 546-3336<br>Mobile: (704) 902-0937 | Eagle Mills Investments LLC<br>275 Dutchman Road 275 Dutchman Road<br>Harmony, NC 28634<br>Business: (704) 546-3336<br>Mobile: (704) 902-0937 | BENJAMIN L+AMANDA P LOFTIS |

**Permit Custom Fields**

| | | | | | |
|---|---|---|---|---|---|
| How is your site plan being submitted | Custom Site Plan | 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 | 45' Wide by 55' Deep |
| What are the proposed structures | New Single-Family Residence - Stick Built | Type of New Single-Family Residence | Stick Built | Maximum Number of Bedrooms | 4 |
| If other Addition/Structure, please explain | | Number of Occupants | 8 | Foundation Type | Crawl Space Foundation |
| Residential/Business/Other | Residential | Number of Employees | 0 | Water Supply | Municipal Water |
| Desired Septic System Type | Conventional (most common) | Lot Acreage | 0.46 | Front Setback | 35 |
| Back Setback | 35 | Left Setback | 15 | Right Setback | 15 |
| Zoning Permit Issued Date | Apr 17 2024 12:00AM | Zoning Permit Expiration Date | Oct 14 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 | NOT IN A WATERSHED | | | | |

| Attachment File Name | Added On | Added By | Attachment Group | Notes |
|---|---|---|---|---|
| Signature_Benjamin_Loftis_4/15/2024.jpg | 04/15/2024 17:46 | Loftis, Benjamin | | Uploaded via CSS |
| DOC TO AUTHORIZE AN OWNER 3_18_v1.pdf | 04/16/2024 15:56 | Loftis, Benjamin | Available Online | |
| Septic Sketch 123 Arrowood_v1.pdf | 04/17/2024 8:48 | Loftis, Benjamin | Available Online | |

| Inspection Number | Status | Inspection Type | Request Date | Scheduled Start Date | Scheduled End Date | Actual Start Date | Actual End Date |
|---|---|---|---|---|---|---|---|
| 2024-208571 | Passed - Permit | OSWP Septic/Well Preliminary Site Visit | 04/24/2024 | 04/23/2024 0:00 | 04/23/2024 0:00 | 04/24/2024 7:51 | 04/24/2024 7:51 |

**Inspectors:** Moore, Bradley (Primary)

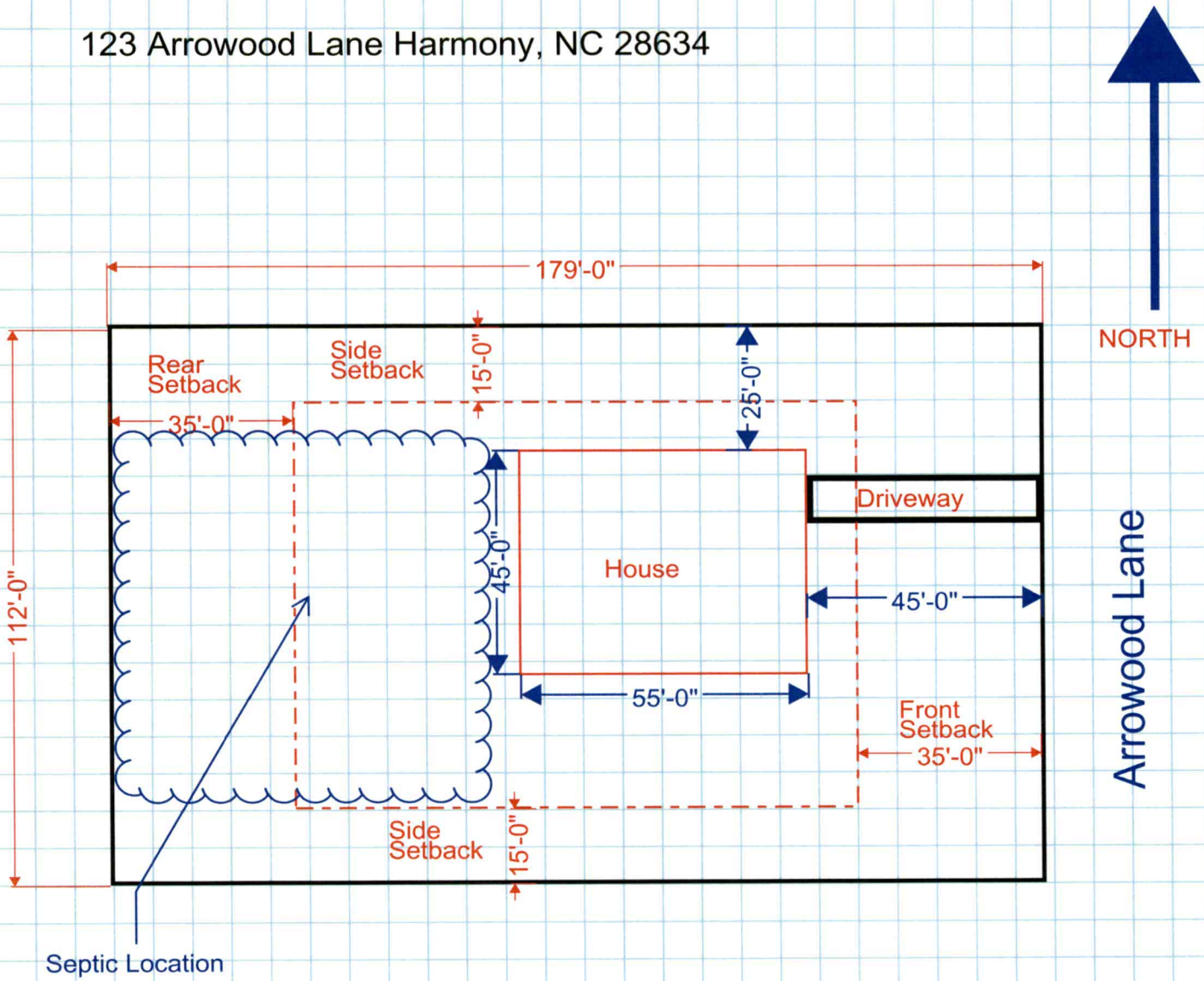
| Checklist Item | Description | Passed | Comments |
|---|---|---|---|
| General Comments | Checklist item used to track general comments, not specific to any other checklist item | No | |

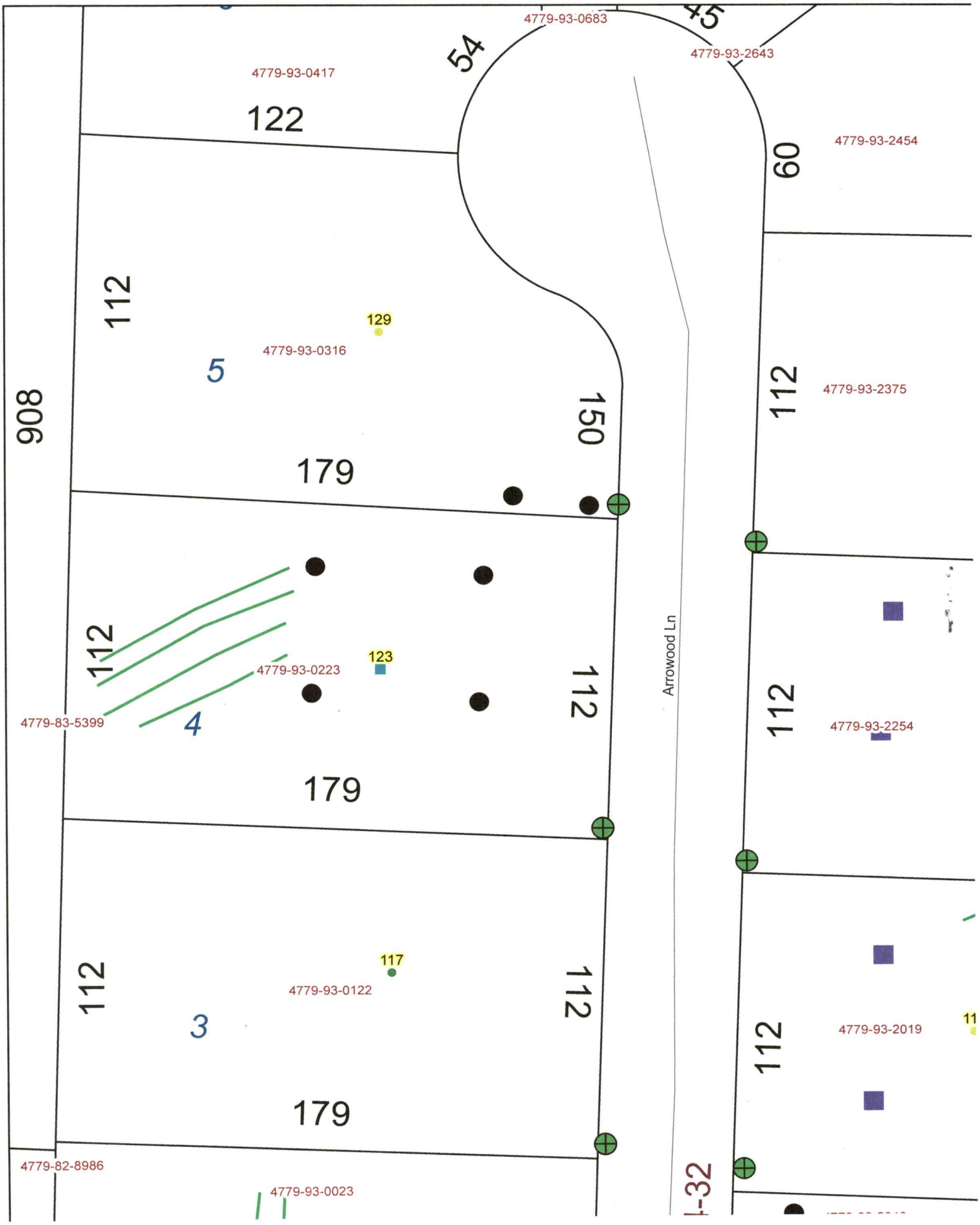
# PERMIT SNAPSHOT REPORT (OSWP-2024-51350)

| Invoice No. | Fee | | Fee Amount | Amount Paid |
|---|---|---|---|---|
| INV-00029743 | Iredell Zoning Tech Fee | | $2.25 | $2.25 |
| | New Gravity System | | $500.00 | $500.00 |
| | Iredell Zoning Permit Fee | | $75.00 | $75.00 |
| | | Total for Invoice INV-00029743 | $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** | | 04/16/2024 15:56 | 04/16/2024 15:56 |
| Confirm application complete v.1 | Generic Action | | 04/16/2024 15:56 |
| **Fees v.1** | | 04/23/2024 7:34 | 04/23/2024 7:34 |
| Issue Invoice v.1 | Generic Action | | 04/23/2024 7:34 |
| Fees Paid v.1 | Generic Action | | 04/23/2024 7:34 |
| **Zoning Review v.1** | | 04/17/2024 9:01 | 04/23/2024 7:34 |
| ~~Floodplain Admin Overview v.1~~ | Task | | 04/17/2024 9:01 |
| Iredell County Zoning Approval v.1 | Task | 04/17/2024 9:01 | 04/17/2024 9:01 |
| Issue Invoice v.1 | Generic Action | | 04/17/2024 9:01 |
| Fees Paid v.1 | Generic Action | | 04/23/2024 7:34 |
| **Lot Readiness Verification v.1** | | 04/24/2024 7:51 | |
| OSWP Septic Preliminary Site Visit v.1 | Inspection | 04/24/2024 7:51 | 04/24/2024 7:51 |
| 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 | | |

123 Arrowood Lane Harmony, NC 28634




4779-93-0683
4779-93-2643
4779-93-0417
54
122
4779-93-2454
60
112
129
4779-93-0316
5
908
150
179
4779-93-2375
112
112
123
4779-93-0223
4779-83-5399
4
Arrowood Ln
112
4779-93-2254
179
112
117
4779-93-0122
3
112
4779-93-2019
179
4779-82-8986
4779-93-0023