ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 HS Mooresville Office (704) 660-3625 PERMIT # 3101810

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

PIN # 4629 -66 -6216

APPLICANT/OWNER: Piedmont Design/ John Karant APPLICANT ADDRESS: 135 Coventry Hills Ln, Trathman

SITE ADDRESS: 135 Coventry Hills Ln. Trathman PHONE: 704-664-7888 ALT. PHONE 704-506-0100

SITE DIRECTIONS: State Park Rd & L Morrison Farm → R Abington → L Coventry Hills → @ end on L SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: CL+T SECTION: 17 LOT # 169 LOT AREA: 1.16 ac DESIGN FLOW: ext L.T.A.R.: ext

Septic Tank	(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:				☐ Business	No. Persons
Pump Make	Model		Serial #	Repair System Description: drip + ext bed				☐ Other	No. Employees
# Nitrification Fields	# Lines		Linear Ft.	Maintenance Agreement Required:	☒ YES	☐ NO		☐ Slab	☐ Crawl Space
Trench Width	Trench Bottom Depth(Low side)		Gravel Depth		☐ GRAVITY	☒ PRESSURE		☒ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Pre construction meeting required

INITIAL SITE SKETCH

See attached design from Piedmont Design Associates

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.

INSTALLED AS PERMITTED

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: John Karant Date: 9-23-20 Installed by: SID GASKINS

IMPROVEMENT PERMIT by: Carla C. Nicks Date: 9-16-20 OPERATION PERMIT by: Burt C. Whitley Date: 11-6-2020

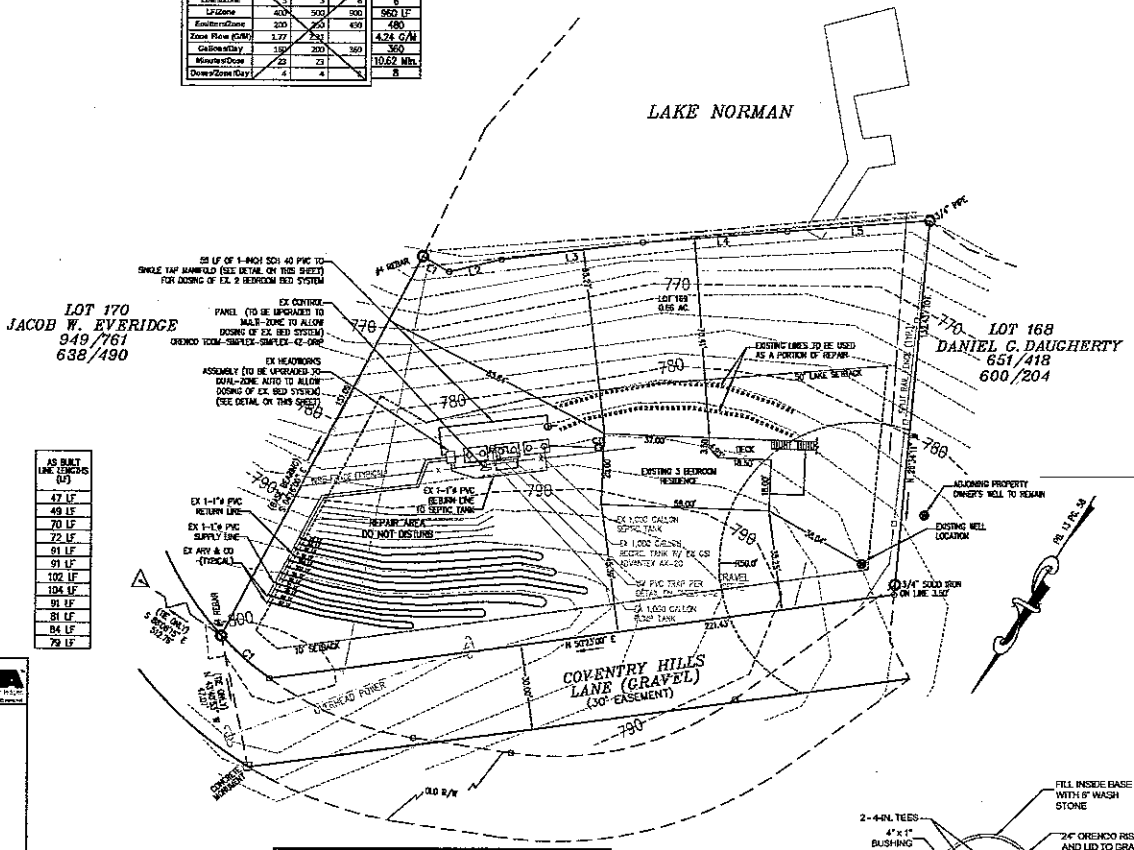
AUTHORIZATION TO CONSTRUCT by: Carla C. Nicks Date: 9-16-20 Existing System Inspected by: Date:

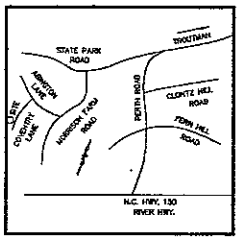
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Site Plan & Boundary Survey Info Provided By:
Don Allen and Associates, PA
111-B Raceway Drive
Mooresville, NC 28117
704.664.7029
Soils Information Provided By:
S&ME, Inc. – Paul Pennington, LSS
385 Timber Road, Suite 104
Mooresville, NC 28115
704.662.8625
Revised Site Plan Info Provided By:
John Richard Howard Surveying
PO Box 275
Advance, NC 27006
336.998.5396
Site Plan Dated: August 20, 2009

Drip Field Data				
Zone Number	1	2	Total	As Built
Lines/Zone	3	3	6	6
LF/Zone	400	500	900	960 LF
Emitters/Zone	200	250	450	480
Zone Flow (GPM)	1.77	2.21		4.24 G/M
Gal/Day/Day	180	200	380	360
Minutes/Dose	23	23		10.62 Min.
Doses/Zone/Day	4	4	8	8

AS BUILT LINE LENGTHS (LF)
47 LF
49 LF
70 LF
72 LF
91 LF
91 LF
102 LF
104 LF
91 LF
81 LF
84 LF
79 LF





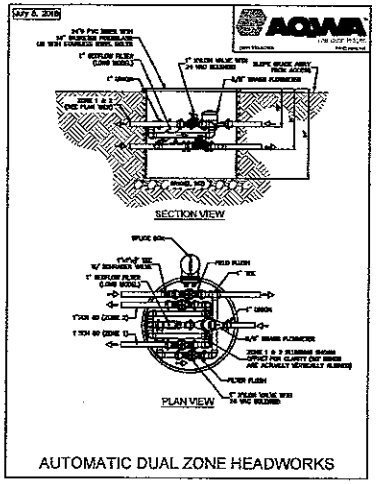
VICINITY MAP
NO SCALE

Design Flow
Bedrooms: 3 Bedrooms
Flow per Day per Bed room: 120 Gal./Day/Bedroom
Drip Design Flow (DDF): 360 Gal./Day
LP Pump USGP: 120 Gal./Day

Pressure Manifold Design
Est. System Size: 120.00 Ft. of Bed
Silt Volume: 99.12 Gallons
Dist Volume: 77.00 Gallons
Dose Volume: 90.80 Gallons
Pipe I.D.: 0.85 In. 1/2" SCH 80
Operating Head: 2.00 Ft
Lin. Supply Line Length: 55.00 Ft
Friction Head: 1.39 Ft
Static Head: 5.00 Ft
Flow per Orifice: 0.49 GPM
Time Run Time: 12.53 Minutes
Doses per Day: 3.00
Pump Capacity: 0.42 GPM at 6.39 TDH

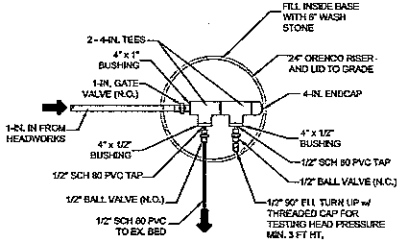
Daily Flow to Bed System = 240 Gallons
Daily Flow to Drip System = 120 Gallons

Dose Volumes/Regime:
1) 80 Gallons - Bed System
2) 40 Gallons - Drip System
3) 90 Gallons - Bed System
4) 40 Gallons - Drip System
5) 90 Gallons - Bed System
6) 40 Gallons - Drip System
Total Flow to System = 360 Gallons per Day



AUTOMATIC DUAL ZONE HEADWORKS

Note:
Contractor to Fill All Washed Areas of Primary and Repair Drainfield Areas with a Sandy Clay Loam Soil, Over Seed with Tall Fescue, Fertilize & Mulch with a Biodegradable Straw Matting.



SINGLE TAP PRESSURE MANIFOLD
N.T.S.

811 Know what's below. Call before you dig.

GRAPHIC SCALE
1 inch = 20 feet

PIEDMONT DESIGN Associates, P.A.
Suite 101 Westfield Center, 125 East Plaza Drive
Mooresville, North Carolina 28115
Phone:(704) 664-7880 Fax:(704) 664-1178 www.pdapa.com

PREPARED FOR:
JOHN KARANT
136 COVENTRY HILLS LANE
TROUTMAN, NC 28166
704-651-8367

SEPTIC SYSTEM REPAIR SITE PLAN
3 BEDROOM RESIDENCE
136 COVENTRY HILLS LANE
TROUTMAN, IREDELL COUNTY, NORTH CAROLINA

REVISIONS	BY

Date: 9/11/2020
Scale: 1"=20 Ft
2' Contours
Drawn: GMD
Checked: DLM
Job: 09-01-08-EC
Sheet: U-1
of 1 Sheets

Location: PR-31

PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS WITHIN MUST BE WITH THE WRITTEN CONSENT OF PIEDMONT DESIGN ASSOCIATES, P.A.

Owner: _____ Approved: _____ Date of Issue: _____

N:\Engineering\1-Projects\2009\09009 - Misc Septic\dwg\09009-Un Dwy SSA\dwg\Coventry Hills Repair R-1 (20 dwg, 9/11/2020 11:24:55 AM, dlcearn

RECEIVED SEP 0 8 2020

HP-0100806 Repair Wal

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

(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)

Repair

1. **APPLICATION FOR:** ___Improvement Permit ___Authorization To Construct X Existing System Inspection

Paid $150.00 9/21/20

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application

The following optional attachments may also be submitted: ___Survey Plat, Scaled no more than 1 Inch = 60 Feet

Place check ( ) beside whichever is submitted if applicable X Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. **Applicant Information:**

Piedmont Design Assoc	125 E. Plaza Drive, Suite 101 Mooresville, NC 28115	704-664-7888	704-506-0700 (C)
Applicant Name	Mailing Address	Home Phone #	Alternate Phone #
John Karant	135 Coventry Hills Ln, Troutman, NC 28166	N/A	704-651-8367 (C)
Owner Name	Mailing Address	Home Phone #	Alternate Phone #

4. **Property Information:**

135 Coventry Hills Lane, Troutman	Crescent Land & Timber	S 17 Lot No. PT169
Street Address	Subdivision Name	Section/Phase and Lot Number

Driving Directions: State Park Rd., (L) on Morrison Farm Rd. (R) on Abinton Ln. (L) on Coventry Hills Ln. House at end of street on left. Drainfield on left side of residence.

5. **RESIDENTIAL Site Development Information:** *(Check or Complete ALL that apply)*

( ) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
(X) Repair To Failing Septic System due to failure, surfacing effluent
( ) Other

Maximum Number of Bedrooms 3
Maximum Number of Occupants ___
If Expansion, Current Number of Bedrooms ___

( ) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non-Residential Site Development: Type of Business ___
Square Footage of Building ___
Maximum Number of Employees ___
Maximum Number of Seats ___

6. **Proposed Water Supply:**

( ) New Well (X) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

7. **Desired Septic System Type:** *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed 2010 *Year*

( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other ___

8. **Please Answer The Following** ( ) Yes (X) No Does the site contain any jurisdictional wetlands?
To The Best of Your Ability: ( ) Yes (X) No Is any non-domestic sewage (i.e. industry) 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.

9. **Signature:** _____ August 31, 2020

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

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative:

Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:

Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form.

If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

I, **John Karant**, am the legal owner(s) of the property located at **135 Coventry Hills Lane, Troutman, NC**, identified as PIN (Parcel Identification Number) **4629-66-6216**, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) **David DeCaron Piedmont Design Associates, PA**, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

John K Karant 8/31/2020
Signature of Owner(s) Date

Heidi Karant 8/31/2020
Signature of Witness Date

Please return this signed form to the appropriate office:

Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*:

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 PERMIT!!!***

Place an (X) beside each item as you complete the site plan:

_____ Property Line measurements are clearly identified… **_____ All proposed structures are indicated…**

SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

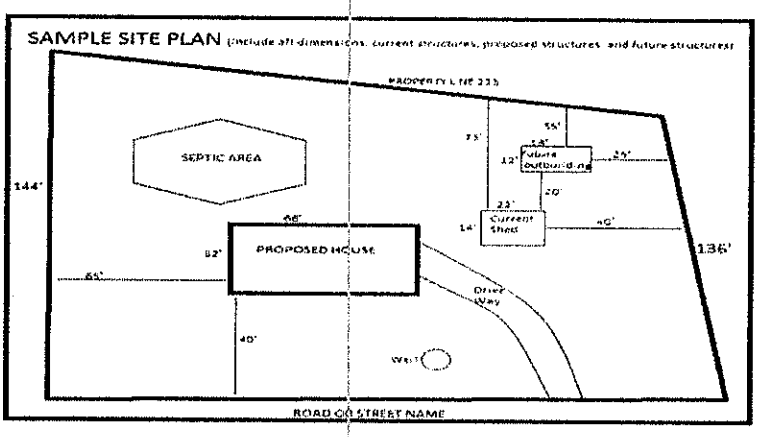
_____ Front and side setbacks from property line… **_____ Preferred driveway location and configuration, preferred well location…**

_____ Area you prefer your septic system to be placed… **_____ 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

See attached plan by PDAPA.

Signature: _____

REQUIRED **property owner or owner's legal representative signature.**

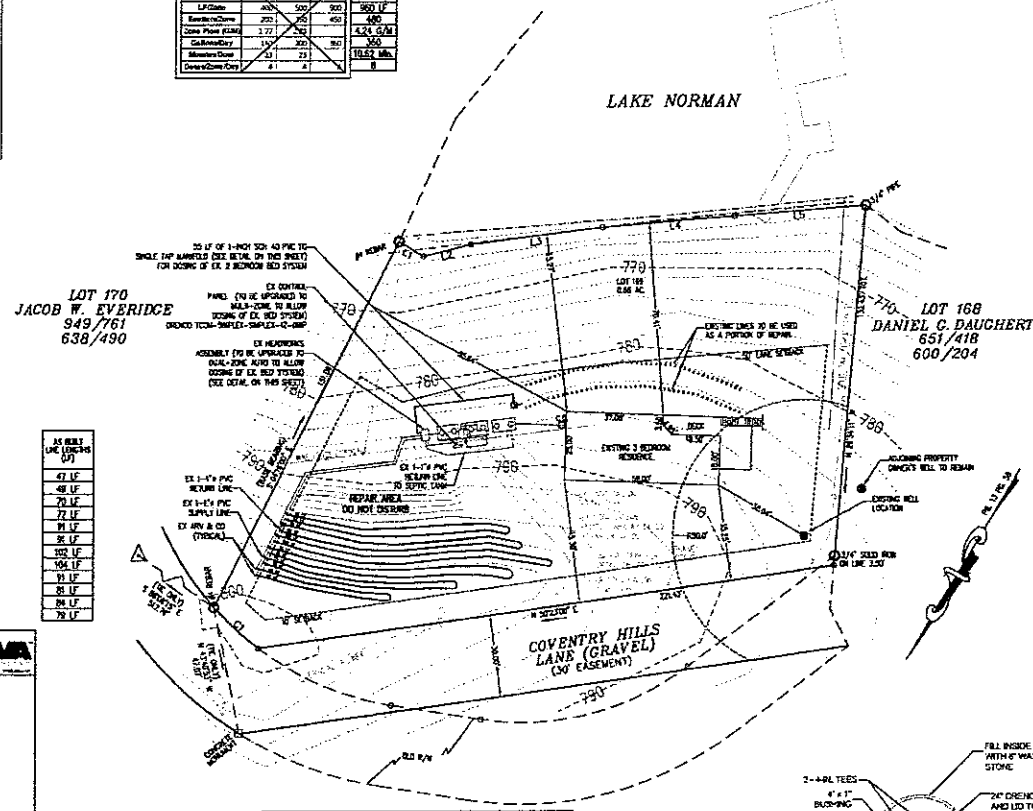
August 31, 2020

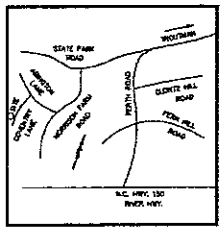
DATE

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Mooresville, NC 28117
704.664.7029
Soils Information Provided By:
SAME, Inc. – Paul Pennington, LSS
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Moorsville, NC 28115
704.662.8625
Revised Site Plan Info Provided By:
John Richard Howard Surveying
PO Box 276
Advance, NC 27006
336.998.5396
Site Plan Dated: August 20, 2009

Drip Field Data				
Zone Number	1	2	Total	As Built
Lines/Zone	3	3	6	6
LF/Zone	480	500	980	960 LF
Emitters/Zone	240	240	480	480
Zone Flow (GPM)	2.22	2.22		4.24 GPM
GPM/Emitter	1.9	1.9	1.9	1.9
Minutes/Zone	53	53		110.52 Min.
Zones/Zone Day	2	2	4	8

As Built Line Lengths (LF)
42 LF
48 LF
70 LF
72 LF
91 LF
96 LF
102 LF
104 LF
91 LF
86 LF
94 LF
79 LF



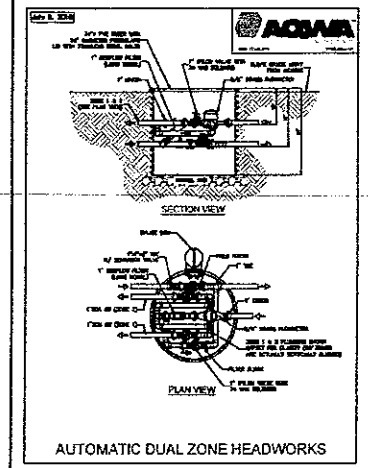


VICINITY MAP
NO SCALE

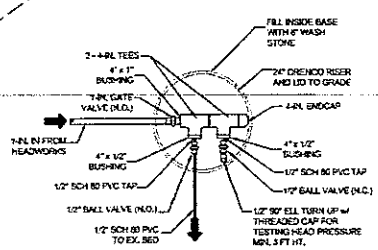
Daily Flow to Bed System = 360 Gallons
Daily Flow to Drip System = 138 Gallons

Zone Volume Rating:
3 | 1 | 60 Gallons - Bed System
3 | 2 | 60 Gallons - Drip System
3 | 3 | 90 Gallons - Bed System
4 | 4 | 80 Gallons - Drip System
4 | 5 | 80 Gallons - Bed System
4 | 6 | 80 Gallons - Drip System
Total Flow to System = 360 Gallons per Day

Note:
Contractor to Fill All Washed Areas of Primary and Repair Drainfield Areas with a Sandy Clay Loam Soil, Over Seed with Tall Fescue, Fertilize & Mulch with a Biodegradable Straw Matting.



AUTOMATIC DUAL ZONE HEADWORKS



SINGLE TAP PRESSURE MANIFOLD
N.T.S.

811 Know what's below. Call before you dig.

GRAPHIC SCALE
1 inch = 20 feet

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Suite 101 Westfield Corner, 125 East Plank Drive
Mooresville, North Carolina 28115
Phone: (704) 660-0818 FAX: (704) 664-1776 www.pdpa.com

PREPARED FOR:
JOHN KARANT
136 COVENTRY HILLS LANE
TROUTMAN, NC 28166
704-651-8367

SEPTIC SYSTEM REPAIR SITE PLAN
3 BEDROOM RESIDENCE
136 COVENTRY HILLS LANE
TROUTMAN, IREDELL COUNTY, NORTH CAROLINA

REVISIONS	BY

Date: 9/11/2020
Scale: 1"=20 Ft.
2' Contours
Drawn: GMD
Checked: DLM
Job: 09-01-08-CC
Sheet: U-1

Location: P8-31

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Owner: _____ Approved: _____ Date of Issue: _____