ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # 308508

PIN # 4659 -56 -4521

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

APPLICANT/OWNER: Sunset Homes LLC

APPLICANT ADDRESS: 19701 Bethel Church Rd #103-167 Cornelius NC 28031

SITE ADDRESS: 135 Sheep Path Drive Mooresville NC 28115

PHONE: 704-785 6405 ALT. PHONE -

SITE DIRECTIONS: Shepherd Rd to Shepherd Bluff @ on Bluff Meadow Sheep Path Drive

SAP CONTROLLED: [X] YES [ ] NO

SUBDIVISION: Shepherds Bluff

SECTION: 5 LOT # 34 LOT AREA: .58 Acres.

DESIGN FLOW: 360 L.T.A.R.: .325

Septic Tank 1000 (gal) STB 1012 Date 2-5-22

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 4 Linear Ft: 185

Trench Width 24in Trench Bottom Depth(Low side) 40in Gravel Depth

[X] New System [ ] Repair [ ] Expansion System Type: I II (III) IV V VI

System Description: Gravity PP BPS - 50% Reduction

Repair System Description: PP BPS - 50% Reduction

Maintenance Agreement Required: [ ] YES [X] NO

[X] GRAVITY [ ] PRESSURE

[X] Residence [ ] Business [ ] Other [ ] Slab [ ] Basement w/plumbing

No. Bedrooms 3 No. Persons 6 No. Employees

[ ] Crawl Space [X] Basement w/o plumbing

Water Supply: [X] Private [ ] Public [ ] Community

Comments / Conditions: See notes and information

ST - 18 1/2 ft, Yellow filter
D-box 12ft to deck post, 10ft to upper ditch

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Soil & Forestry Services of the Carolinas PA

LSS # 1231

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 PPBPS as shown

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.* [X] **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* [X] **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 2-16-22

IMPROVEMENT PERMIT by: Benjamin A Bolkin Date: 2-8-2021

AUTHORIZATION TO CONSTRUCT by: Benjamin A Bolkin Date: 2-8-2021

Installed by: Dellinger

OPERATION PERMIT by: Marian Dobson Date: 3/15/22

Existing System Inspected by: Date:

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

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

PROPERTY ID #: 4659564591
COUNTY: Iredell

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

OWNER: Sunset Homes LLC
ADDRESS: 19701 Bethel Church Rd #103-167, Cornelius NC 28031
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 135 Sheep Path Dr Mooresville NC 28115 Lot 34
APPLICATION DATE
DATE EVALUATED: 11/2020
PROPERTY SIZE: 0.58AC
PROPERTY RECORDED: Yes
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ 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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P1	L/13%	0-3	Fill			67"			PS .3
		3-33	BRC wmsbk	Fr SS SP					
		33-67	RBCL wfsbk	Fr SS SP					
P2	L/8%	0-5	BCL wfsbk	Fr SS SP SExP	C. to Many SAP Incls.	40"			PS .325
		5-18	BRC wmsbk/ABK	Fr SS SP					
		18-40	RBCL wfsbk	Fr SS SP					
		40-82	VAR L/FSL MASS	Fr SS SP					
P3	L/7%	0-5	RBCL wfsbk	Fr SS SP SExP	Few to C. SAP	28"			PS .325-.4
		5-28	BRCL wfsbk	Fr SS SP					
		28-81	VAR SL MASS	Fr SS SP					
P4	L/10%	0-5	RBSCL wfsbk	Fr SS SP SExP	Few SAP Incls. Few WHRock Incls ~8-10%	36"			PS .3-.325
		5-20	RBC wmsbk/ABK	Fr SS SP					
		20-36	RBCL wmsbk/ABK	Fr SS SP					
		36-80	VARL/SL MASS	Fr SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Mod. Conv.	PP BPS
Site LTAR	.325	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
OTHER(S) PRESENT: Chad Wagner

COMMENTS:

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 #: 4659564521
DATE OF EVALUATION: 11/2020
COUNTY: Iredell

135 Sheep Path Dr.

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
P5	L/12%	0-15	RBC wmsbk/MsIC	Fr SS SP	- Few fuc. SAP - C. Cl. Mo Colors	36"			PS .3-.325
		15-36	RBCL wmsbk/MsK	Fr SS SP					
		36-69	VAR L. MASS	Fr SS SP					
P6	L/15%	0-25	BRC wmsbk/MsIC	Fr SS SP	- Few Fe Dep/	42"			PS "
		25-42	RBCL wmMsK/sbK	Fr SS SP	- Clay Films				Drip
		42-75	VAR SL MASS	Fr SS SP	- Cl. R's				

COMMENTS:

RECEIVED FEB 0 8 2020

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

S.L. AP-308508 $500.00

Application For:
(X) Septic Improvement Permit (X) New Well Permit (X) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) 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: ( ) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Sunset Homes LLC Address: 19701 Bethel Church Rd #103-167 Cornelius Zip: 28031
Applicant Email: Sunsethomes.rick@gmail.com Phone: 704-785-6405 Alt. Phone:
Owner Name: Sunset Homes LLC Address: 19701 Bethel Church Rd #103-167 Cornelius NC Zip: 28031
Owner Email: Sunsethomes.rick@gmail.com Phone: 704-785-6405 Alt. Phone:

Property Information:

Street Address: 135 Sheep Path Dr., Mooresville NC 28115
Subdivision Name: Shepherds Bluff Section/Phase: 95 Lot Number: 34
Driving Directions: Shepherd Rd to Shepherd Bluff Dr, Left on Bluff Meadows Ln, Sheep Path Dr.

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: 3
Maximum Number of Occupants: 6
( ) Swimming Pool
( ) Other Addition/Structure:

CHECK FOUNDATION TYPE
( ) Crawl Space Foundation
( ) Basement with Plumbing
(X) 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:
(X) New Well ( ) 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: [redacted] 1/15/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

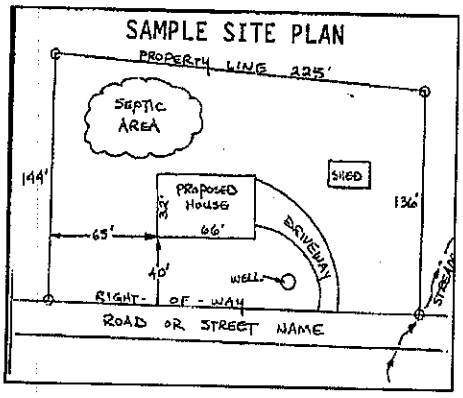
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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:

- (X) **Property Line measurements are clearly identified**
- (X) **All proposed structures are indicated**
- (X) **Front and side setbacks from property line**
- (X) **Preferred driveway location**
- (X) **Preferred well location**
- (X) **Preferred septic system location**
- (X) **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

Signature: _____ 1/15/21

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

Public Health
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
Iredell County Health Department

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, Rich Wojtalik/Sunset Homes/Daniel McNeil am the legal owner(s) of the property located at 135 Sheep Rock Dr. Mooresville NC 28115, identified as PIN (Parcel Identification Number) 4659564521, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SFS/Ashley Rollans, 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.

Signature of Owner(s) — 2/01/2021 (Date) — Rich Wojtalik (Signature of Witness) — 2-1-2021 (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

135 Sheep Path Dr. PIN 4659564521 (*See Attached Design*)
The septic layout for this lot (8' centers) yielded a total of 436 linear feet of line. The primary system is proposed as 185' of Modified Conventional (50% Reduction) drainfield with gravity distribution. Trench depth is specified at 40 inches. The repair system is proposed as 200' of Modified Conventional (50% Reduction) drainfield with gravity distribution. Trench depth is specified at 36 inches. There is 231 linear feet available for repair.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c).".

Owner Date

Print Name SUNSET HOMES LLC: RICHARD E. WOJTALIK

Signature 2/01/2021

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c)."

Disclaimer

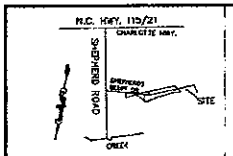
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas on the site may nullify this design. **This is a Saprolite System and the well must be installed where shown on the Site Plan. All parts of the system must be 100' from the well head.** System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,



S. Ashley Rollans, LSS
Attachment: *Septic Design*

Book 73 Page 20 Page 1 of 1



VICINITY MAP NO SCALE

LEGEND

- ⌀ = P.P. = POWER POLE
- OHE = OVERHEAD ELECTRIC
- R/W = RIGHT-OF-WAY
- PDUE = PUBLIC DRAINAGE & UTILITY EASEMENT
- I.P.S. = IRON PIN SET (#4 REBAR
- C.P. = COMPUTED POINT

SURVEYORS CERTIFICATION

I, WILLIAM M. ALLEN CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 2712 PAGE 1927) (OTHER); THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES IS 1:10000; (THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION FOUND IN BOOK ____ PAGE ____); THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30, AS AMENDED.

WITNESS MY HAND AND SEAL THIS 17 DAY OF Dec., A.D. 2020.

OFFICIAL SEAL

PROFESSIONAL LAND SURVEYOR

L-3499
REGISTRATION NUMBER

NORTH CAROLINA PROFESSIONAL SEAL L-3499 LAND SURVEYOR WILLIAM M. ALLEN

THIS SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

PROFESSIONAL LAND SURVEYOR

STATE OF NORTH CAROLINA
COUNTY OF IREDELL

I, William M. Allen, REVIEW OFFICER OF IREDELL COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

12-18-20
DATE

William M. Allen
REVIEW OFFICER

Doc ID: 017300280001 Type: GRP
Recorded: 12/18/2020 at 04:43:27 PM
Fee Amt: $21.00 Page 1 of 1
Iredell County, NC
Ronnie M. Wyatt Register of Deeds
BK 73 PG 20

OWNER CERTIFICATE FOR EXCEPTION PLATS

KNOW ALL MEN BY THESE PRESENTS, THAT I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I (WE) HEREBY ACKNOWLEDGE THIS PLAT AND ALLOTMENT TO BE MY FREE ACT AND DEED.

12/18/2020
DATE

Daniel W. McNeill
OWNER / Manager

DATE

OWNER

NORTH CAROLINA
IREDELL COUNTY

I, Courtney N. Cox
A NOTARY PUBLIC FOR SAID COUNTY AND STATE
DO HEREBY CERTIFY THAT Daniel W. McNeill

OWNER(S) PERSONALLY APPEARED BEFORE ME THIS DAY, AND ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT. WITNESS MY HAND AND OFFICIAL SEAL.

THIS 18 DAY OF Dec 2020.

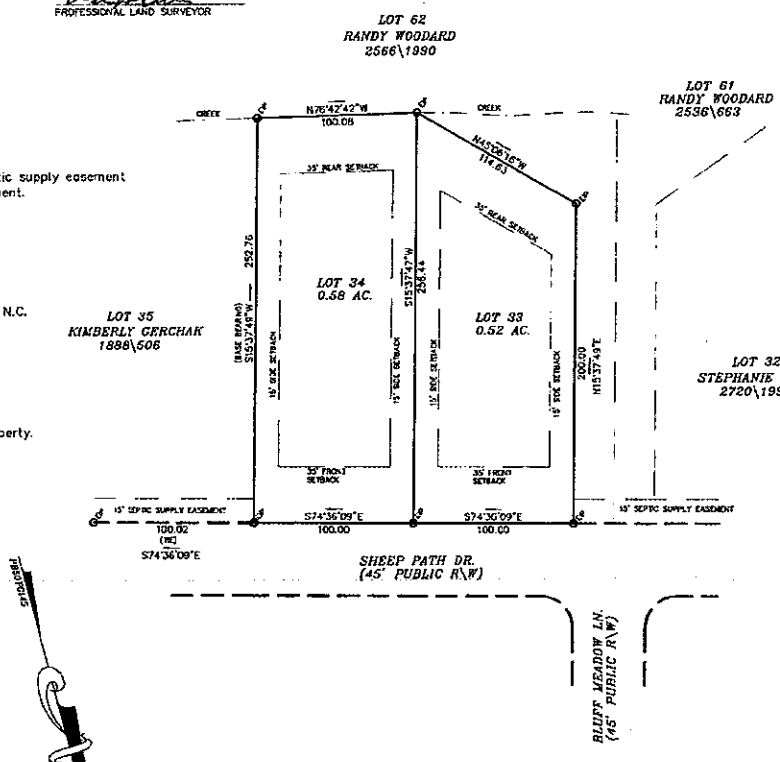
NOTARY PUBLIC

MY COMMISSION EXPIRES: 11/14/2022

COURTNEY N COX NOTARY PUBLIC IREDELL COUNTY, NC MY COMMISSION EXPIRES 11-14-22

NOTES:

1) This property may be subject to any easements and/or Rights-of-way of record.
2) The sole purpose of this plat is to remove the 15' septic supply easement
3) All lots are subject to a 10' Utility and Drainage Easement. 10 feet on each side of the property line.
4) Total acreage on this plat = 1.10 AC.
5) Total lots created: 2 existing lots on this plat.
6) Property zoned: RA , ADJOINING ZONING IS RA
7) Minimum Building Setback: 35' Front
   35' Rear
   15' Side
8) The property is located in BARRINGER Twsp., Iredell Co., N.C.
9) Individual wells & septic for each lot.
10) This property is not located in a special Flood hazard area.
11) Tax parcel #(pin number) = LOT 33 = 4659563536
    LOT 34 = 4659564521
12) Deed ref. = 2712\1927 and 2715\889
13) No geodetic monument located within 2000' of said property.
14) AS OF THE DATE OF THIS RECORDING, THE LOTS REPRESENTED ON THIS PLAT HAVE NOT BEEN INSPECTED OR APPROVED BY THE IREDELL COUNTY HEALTH DEPT. UNTIL INSPECTED THERE IS NO ASSURANCE THAT A BUILDING PERMIT WILL BE ISSUED.



I, HEREBY CERTIFY THAT THIS PLAT FOR RECORDATION IS AN EXCEPTION TO THE SUBDIVISION ORDINANCE OF IREDELL COUNTY, NORTH CAROLINA.

12-18-20

SUBDIVISION ADMINISTRATOR
IREDELL COUNTY, NORTH CAROLINA

EXCEPTION PLAT
OF

SHEPHERD'S BLUFF PHASE 5
LOTS 33 & 34
(PB 50 PG 145)

BARRINGER TWSP., IREDELL CO., N.C.

SCALE: 1" = 50' DATE SURVEYED: DEC. 10, 2020
DATE PLATTED: DEC. 11, 2020

OWNER: SUNSET HOMES LLC
19701 BETHEL CHURCH RD. SUITE 103
CORNELIUS, NC 28031

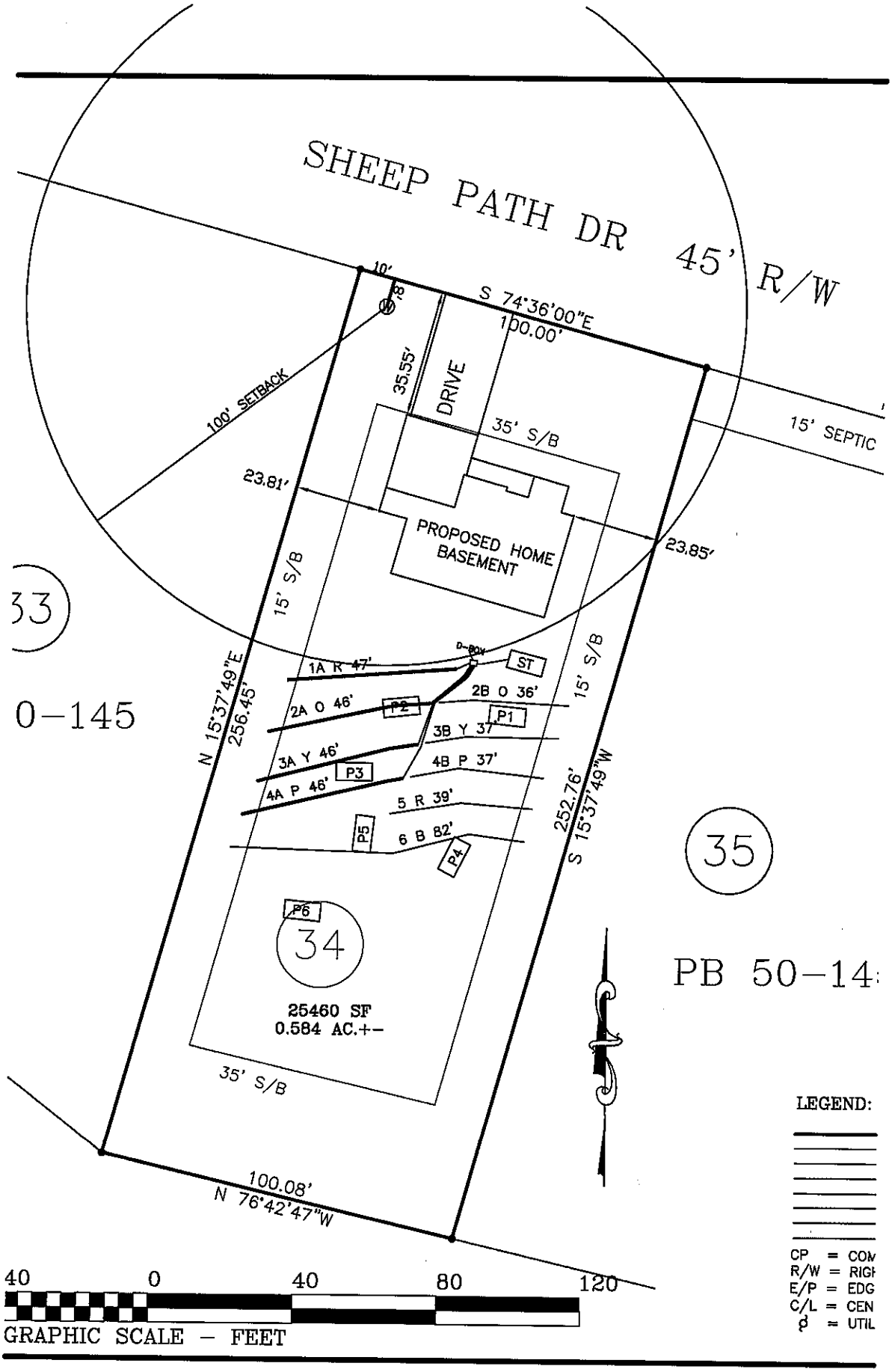
GRAPHIC SCALE



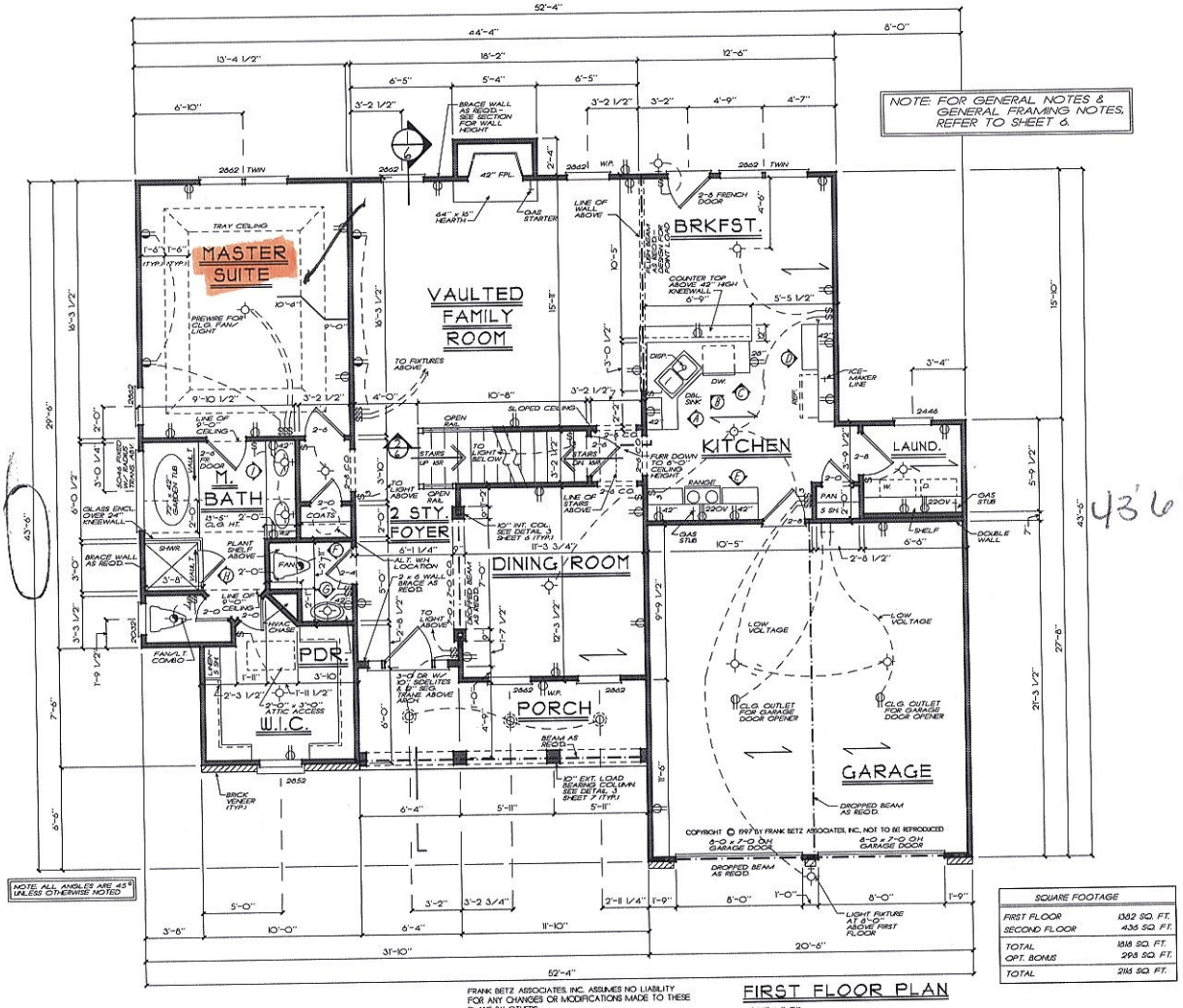
(IN FEET)
1 inch = 50 ft.

DAS
DON ALLEN & ASSOCIATES P.A.
"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family Construction Staking * Subdivision Design * Topographical
131 Crestdale Park Drive – Suite 102 * Mooresville, N.C. 28117
(704) 664-7029 (704) 664-8041 Fax
donallensurvey@gmail.com

FILE NAME: SHEPHERDS BLUFF 33-34.DWG


SHEEP PATH DR 45' R/W
10'
S 74°36'00"E
100.00'
35.55'
DRIVE
35' S/B
15' SEPTIC
100' SETBACK
23.81'
PROPOSED HOME
BASEMENT
23.85'
15' S/B
33
0-145
N 15°37'49"E
256.45'
1A R 47'
2A O 46'
3A Y 46'
4A P 46'
2B O 36'
3B Y 37'
4B P 37'
5 R 39'
6 B 82'
P1
P2
P3
P4
P5
P6
ST
15' S/B
252.76'
S 15°37'49"W
35
PB 50-14
34
25460 SF
0.584 AC.+-
35' S/B
100.08'
N 76°42'47"W
LEGEND:
CP = COM
R/W = RIGH
E/P = EDG
C/L = CEN
℄ = UTIL
40 0 40 80 120
GRAPHIC SCALE - FEET

52'-4"



SQUARE FOOTAGE	
FIRST FLOOR	1382 SQ. FT.
SECOND FLOOR	435 SQ. FT.
TOTAL	1818 SQ. FT.
OPT. BONUS	298 SQ. FT.
TOTAL	2116 SQ. FT.

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HOMEPLANS Designed for Today's Market www.frankbetz.com

FIRST FLOOR PLAN
THE WILLOW

FRANK BETZ ASSOCIATES, INC.
DESIGNERS OF CUSTOM AND STOCK HOMEPLANS
3350 CENCE BURGESS PARKWAY SUITE 190 KENNESAW, GEORGIA 30144 770-421-0888 800-717-3035

BY WMB CHK KKW

DATE 7-25-97

SHEET 4 OF 7

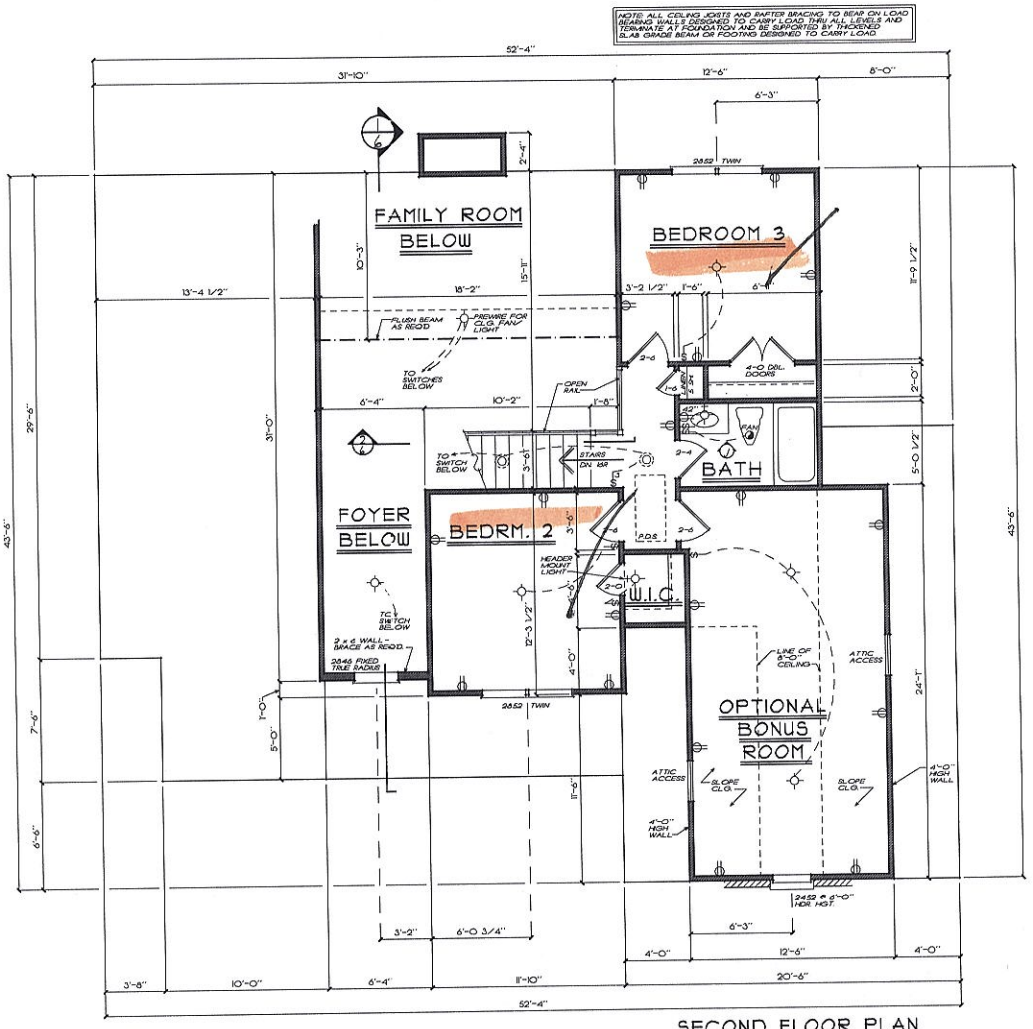
10-22-2003 9:12 AM I:\WORK\WILLOW\BOOK\Print

52'-4"

43'6"

Brian A Betz 2-9-2021

2-16-2021



FRANK BETZ ASSOCIATES, INC. ASSUMES NO LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS BY OTHERS.

SECOND FLOOR PLAN

1/4" = 1'-0"

DATE	BY	DATE	BY
4-4-96	CLAR	3-3-97	CLAR
3-28-97	CLAR	5-4-97	CLAR

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HOMEPLANS
Designed for Today's Market
www.frankbetz.com

SECOND FLOOR PLAN
THE WILLOW

FRANK BETZ ASSOCIATES, INC.
DESIGNERS OF CUSTOM AND STOCK HOMEPLANS
3350 GEORGE BUSBEE PARKWAY
SUITE 190
KENNESAW, GEORGIA 30144
770-421-1888 800-777-0303

BY WMB CK KKW

DATE 7-25-97

SHEET 5 OF 7

10/29/2013 9:8 AM I:\BDOC\THE_WILLOW\WDOC05.DWG

Benjamin Betz 2-8-2021.

2-16-2021

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Modified Conventional Septic System with gravity dist. for a 3 bedroom single family residence at 135 Sheep Path Dr., Lot 34, PIN#(4659564521) Mooresville 28115, Iredell County, NC.

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LICENSED SOIL SCIENTIST Samuel A. Pollard 1231 STATE OF NORTH CAROLINA

January 29, 2021
Project #: 20-0124
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity PPBPS installation.
- Repair is specified as a PPBPS with low pressure distribution installation.
- **100' Setback from well to any part of the system is required (Saprolite System).**

GRAVITY PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Sunset Homes LLC
Address:	19701 Bethel Church Rd #103-167 Cornelius, NC 28031
Phone:	704.785.6405
County:	Iredell
Location:	135 Sheep Path Drive Mooresville, NC 28115
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	185	
Loading Rate (gpd/ft.^{2}):	0.325	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth (LOW SIDE):	40 in.	Repair Trench Bottom 36 in.
Trench Width:	24 in.	
Septic Tank Size:	1000	
Estimated Supply Line Length:	9	
Supply Line Diameter:	4 in. SCH 40 PVC	
Supply Line Volume:	1.31	
Dosing Volume:	N/A	
Supply Manifold:	N/A	
Supply Manifold Length:	N/A	
Supply Manifold Volume:	N/A	
Recommended Float Controls:	N/A	
Recommended Control Panel:	N/A	
Pressure Head:	N/A	
Friction Head:	N/A	
Elevation Head:	N/A	
Total Dynamic Head:	N/A	
Threaded Union:	N/A	
Gate Valves:	N/A	
Check Valves:	N/A	
Anti-Siphon Hole:	N/A	
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas	

135 Sheep Path Drive

PPBPS SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.325
TOTAL AREA TRENCH BOTTOM:	370
TOTAL LATERAL LENGTH:	185
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	185
SUPPLY LINE LENGTH:	9
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

Layout Specifications - 135 Sheep Path Drive-Lot 34

Project #: 20-0124

LAYOUT FOR 3 BEDROOM HOME 1/29/2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1A	***RED***					***47***	***47***
2A	***ORANGE***					***46***	***46***
2B	ORANGE					36	36
3A	***YELLOW***					***46***	***46***
3B	YELLOW					37	37
4A	***PINK***					***46***	***46***
4B	PINK					37	37
5	RED					39	39
6	BLUE					82	82
					Total	416	416

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	TRENCH DEPTH
** System*	*185*	*0.325*	**MOD. CONV**	*0.325*	***PPBPS***	***GRAVITY***	40"
Repair	231	0.300	MOD. CONV	0.300	PPBPS	GRAVITY	36"

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**Nitrification lines were survey located

GRAVITY PPBPS SPECIFICATIONS - 135 Sheep Path Dr.

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	# of Panels
1	***RED***	*N/A*	*47*	*N/A*	*N/A*	94	11
2A	***ORANGE***	*N/A*	*46*	*N/A*	*N/A*	92	11
3A	**YELLOW**	*N/A*	*46*	*N/A*	*N/A*	92	11
4A	**PINK**	*N/A*	*46*	*N/A*	*N/A*	92	11
						370	44

total	**feet =**	**185**	**gal/min =**	**N/A**	
		Des. Flow	**360**		
		Pump Run=	**N/A**		
		soil LTAR	**0.325**		
		LTAR +5%	**0.34125**		
		LTAR with mod.	**0.65**		
		LTAR with mod.. + 5%	**0.6825**		

CALCULATIONS

Location 135 Sheep Path Drive
Mooresville, NC 28115
Project Number 20-0124

Lot No: 34

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.325 $^{gal}/_{ft^2\,day}$

PPBPS? (YES OR NO) YES

Supply Line Length 9 ft.

Supply Line Volume 5.877 ga.

Required Feet of Line 184.6154 ft.
Amount of Line from Layout 185 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Septic Tank Size 1000 gal.

Panel Volume N/A gal.
# of Panels N/A
Dosing Volume N/A gal.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Tank Draw Down N/A

Pump Run Time

Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

Total Dynamic Head (+15%) N/A ft.