ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # AP 321238

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

PIN # 4723 --26 --9893

APPLICANT/OWNER: Jeffrey Balthaser

APPLICANT ADDRESS: P.O. Box 154 Mount Mourne NC 28123

SITE ADDRESS: 161 Sandtrap Drive. Statesville NC 28677

PHONE: 980-275-2096 ALT. PHONE –

SITE DIRECTIONS: Old Airport Rd. Sandtrap Drive, 161 Sandtrap will be on left

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Brittian Hills

SECTION: LOT # 11 LOT AREA: .603 AC

DESIGN FLOW: 360 L.T.A.R.: .30

Septic Tank 1000 (gal) STB Shoal Tech Date 9/16

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 4 Linear Ft 300

Trench Width 36 in Trench Bottom Depth(Low side) 33 in Gravel Depth –

☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

System Description: Gravity - 25% Reduction

Repair System Description: CP - 50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☒ GRAVITY ☐ PRESSURE

☒ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees

☐ Slab ☐ Crawl Space

☒ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply

☐ Private

☒ Public

☐ Community

Comments / Conditions:

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 NC/Carolinas, PA

LSS # 1231 Dated 10/22/21

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.

- Must restake pool to meet 15' Setback to 98' line 11/10/21 DW

As Built Attached

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.*

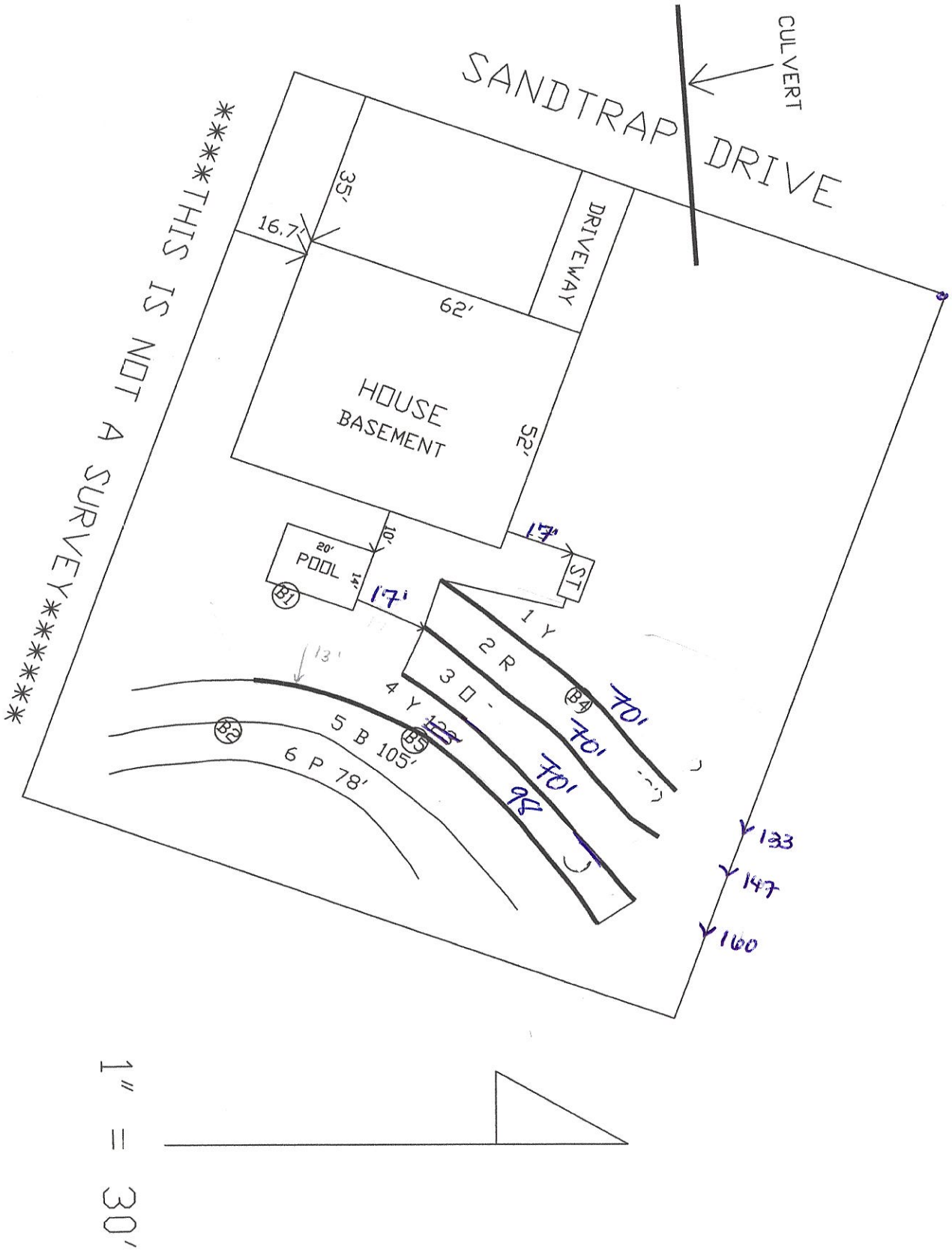
Owner / Applicant Signature: Date: 11/1/21 Installed by: (Ryan Byers) Hager Trailer Rentals

IMPROVEMENT PERMIT by: Benjamin A. Brittain Date: 10-29-2021 OPERATION PERMIT by: James Boggs Date: 11-12-2021

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Brittain Date: 10-29-2021 Existing System Inspected by: Date:

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

161 Sandtrap Dr.
As Built



Item	Date	Initials
Drain Lines Checked	11/10/21	DW
Tanks Checked	11/10/21	DW
Pressure Manifold or Valve Box Checked	—	
Pressure Head Set	—	
Electrical Checked	—	
Floats Set	—	
Alarm Checked	—	
Maintenance Contract Needed? Y / (N)		
Comments:		
Restake post		

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? _____	

161 Sandtrap Dr.

GRAVITY ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Jeff Balthaser
Address:	P.O. Box 154 Mt. Morn, NC 28123
Phone:	980.275.2096
County:	Iredell
Location:	161 Sandtrap Drive Statesville NC 28677
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	300	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth:	33 in. Low side	Repair Trench Bottom 33 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	30
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	19.59
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, PA

161 Sandtrap Drive

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	900
TOTAL LATERAL LENGTH:	300
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	30
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications - 161 Sandtrap Drive

Project #: 21-0089

LAYOUT FOR 3 BEDROOM HOME — October 22, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	*YELLOW*					*70*	*68*
2	*RED*					*70*	*68*
3	*ORANGE*					*72*	*68*
4	*YELLOW*					*123*	*96*
5	BLUE					105	105
6	PINK					78	78
					Total	518	483

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*300*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*GRAVITY*
Repair	210	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE

Notes: **All measures in feet

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

**Nitrification lines were located by GPS.

CALCULATIONS

Location	161 Sandtrap Drive Statesville, NC 28677	
Project Number	21-0089	
Lot No:	11	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.300	$^{gal}/_{ft^2\,day}$
PPBPS? (YES OR NO)	NO	
Supply Line Length	30	ft.
Supply Line Volume	19.59	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	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.
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.

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

PROPERTY ID #: 4722326 9893
COUNTY: Iredell

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

OWNER: Joel J Shelby Best
ADDRESS: 127 Bess Rd Statesville NC 28625
PROPOSED FACILITY: 3 BR
PROPOSED DESIGN FLOW (.1949): 300 gpd
LOCATION OF SITE: 161 Sandtrap Dr., Statesville NC 28677
APPLICATION DATE
DATE EVALUATED: 9/23/21
PROPERTY SIZE: 0.603 Ac
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
B 1	L/7%	0-15	BSL Gr	Fr SS SP		50"	—	—	PS 0.3
		15-27	RBSCL wfsbk	Fr SS SP"					
		27-40	BRC wmsbk/Abk	Fr SS SP	Few WH. Rock				
		40-50	RBSCL wfsbk	Fr SS SP'	C.SAP				
B 2	L/3%	0-3	BSL Gr	Fr SS SP		50"	—	—	PS 0.3-.325
		3-7	RBSCL wfsbk	Fr SS SP'					
		7-32	BRC wmsbk	Fr SS SP'					
		32-50	RBCL wfsbk	Fr SS SP'					
B 3	L/6%	0-12	BSL Gr	Fr SS SP		50"	—	—	PS 0.325
		12-50	RBSCL wfsbk	Fr SS SP'					
B 4	L/5%	0-24	BSCL wfsbk	Fr SS SP		50"	—	—	PS 0.3
		24-40	BRSC wmsbk	Fr SS SP"					
		40-50	RBCL wfsbk	Fr SS SP'	Few SAP				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25% Red. w/Gravity	PPBPS w/Gravity
Site LTAR	0.3	0.3

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

COMMENTS:

Updated February 2014

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 #: Same
DATE OF EVALUATION: Same
COUNTY: Same

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
B5	L/6%	0-13	BSCL wfsbk	Fr SS SP		50"	—	—	PS 0,3
		13-50	BRC wmsbk	Fr SS SP					

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0089
October 22nd, 2021

JEFFREY BALTHASER
Attn: *Jeffrey Balthaser*
Email: bgci19665@yahoo.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence (Basement) Brittian Hills Subdivision, Lot 11, 0.603 ac Parcel, PIN# 4723269893, 161 Sandtrap Drive, Statesville, NC 28677.

Mr. Balthaser:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly wooded. Topography within the evaluated area was gentle to moderate slope near the house site and proposed drainfield area. Property lines and corners were marked before the evaluation. An Autocad File of the survey metes & bounds was produced as a basemap. The proposed septic layout, house and borings were located via Trimble Submeter GPS and used to produce the attached *Site Plan*. The house envelope was located by the client. A plat of the original subdivision is attached to our design.

Methodology

We evaluated soil areas through the use of hand augers. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with five boring locations on the property flagged and located via GPS. Four of the five soil profiles described are located in the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each boring. The house envelope was located via GPS. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS. Detailed system & repair information is summarized in the following paragraph for this Lot.

161 Sandtrap Drive (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 518 linear feet of line. The primary system is proposed as 300 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth is specified at 33 inches on the low side. **Plumbing for the basement must be stubbed out to allow gravity fall to the septic tank and drainfield. A pump system or grinder pump with additional septic tank will be required if gravity fall is not achieved from house plumbing.** The repair system is proposed as 200 linear feet of Mod. Conv. (PPBPS) drainfield with low pressure distribution. There is 210 linear feet available for repair. Trench depth is specified at 33 inches on the low side.

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 Jeffrey Bacheler
Signature _____ 10/22/21

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 161 Sandtrap Drive, Statesville, NC 28677 may nullify this design. 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,

LICENSED SOIL SCIENTIST Samuel A. Rollans 1237 STATE OF NORTH CAROLINA

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

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence at 161 Sandtrap Drive, Lot 11 Statesville 28677, Iredell County, NC.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
Site Plan/System Plan	5
Calculations	6
Profile Descriptions	7-8
Subdivision Plat	9-10
Zoning Permit & Receipt	11-13
Application	14-15
Green Sheet	16
Agent Authorization Form	17

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

October 22, 2021
Project #: 21-0089
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 25% reduction (Accepted) installation.
- Repair is specified as a PPBPS system with low pressure distribution.

RECEIVED OCT 2 5 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM AP-321238 Paid $500.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) Septic Improvement Permit ( ) 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: ( ) 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)

Applicant Name: Jeffrey Balthaser **Address:** P.O. Box 154, Mount Morn, NC 28123 **Zip:** 28123
Applicant Email: bgci1965@yahoo.com **Phone:** 980-225-2096 **Alt. Phone:**
Owner Name: Same **Address:** **Zip:**
Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 161 Sandtrap Drive, Statesville NC 28677
Subdivision Name: Brittian Hills **Section/Phase:** SHT2 **Lot Number:** 11
Driving Directions: Old Airport Rd, Sandtrap Drive, 161 Sandtrap will be on left.

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

(✓) 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
(✓) 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 ( ) 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 ( ) Modified Conventional (✓) Other: Accepted

Please answer the following to the best of your ability:

( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) 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: Samuel A Balthaser 10/22/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

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, Jeff Balthaser, am the legal owner(s) of the property located at 161 Sandtrap Drive, Statesville NC 28677, identified as PIN (Parcel Identification Number) 4723269893, 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] 10/22/21

(Signature of Owner(s)) Date

_____ _____

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

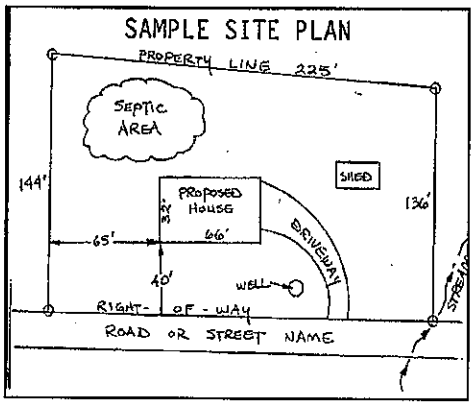
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

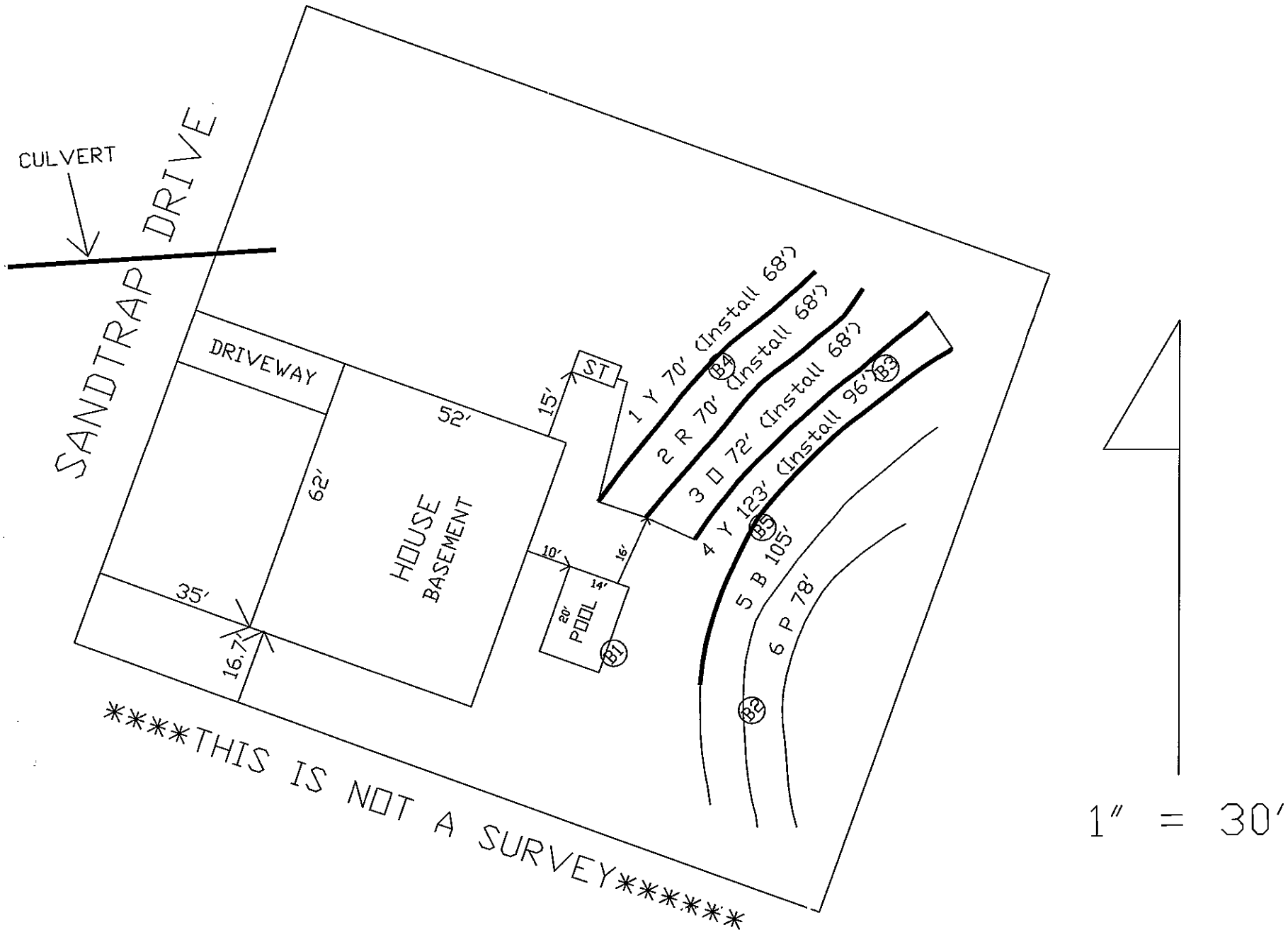
USE THIS SPACE TO DRAW YOUR SITE PLAN

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: X _____ X 10/22/21

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


CULVERT
SANDTRAP DRIVE
DRIVEWAY
52'
62'
HOUSE
BASEMENT
35'
16.7'
15'
ST
10'
16'
20'
14'
POOL
B1
1 Y 70' (Install 68')
B4
2 R 70' (Install 68')
3 □ 72' (Install 68')
B3
4 Y 123' (Install 96')
B5
5 B 105'
6 P 78'
B6
****THIS IS NOT A SURVEY******
1" = 30'

KNOW ALL MEN BY THESE PRESENTS, THAT KELLY B. LEFEVER DOES HEREBY CERTIFY THAT AS AGENT & AS A SHAREOWNER OF THE PROPERTY SHOWN ON THIS PLAT, THAT WE HEREBY ACKNOWLEDGE THIS PLAT AND ALLOTMENT TO BE A FREE ACT AND DO HEREBY DEDICATE TO PUBLIC USE ALL STREETS, ALLEYS, EASEMENTS AND OTHER PUBLIC AREAS SHOWN ON THIS PLAT. WE FURTHER CERTIFY THAT ROBERT J. LACKEY REGISTERED SURVEYOR, SURVEYED AND MADE THIS PLAT AT OUR DIRECTION, AND THAT THE ENTIRE SUBDIVISION IS WITHIN THE BOUNDARIES OF A TRACT CONVEYED TO ME BY A DEED RECORDED IN DEED BOOK 640 PAGE 748 COUNTY REGISTRY

SIGNATURE OF OWNER OR AGENT

NORTH CAROLINA Iredell COUNTY

I, Jay H. Allgood A NOTARY PUBLIC FOR SAID COUNTY AND STATE, DO HEREBY CERTIFY THAT Kelly B. Lefever PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE DUE EXECUTION OF THE FOREGOING INSTRUMENT. WITNESS MY HAND AND OFFICIAL SEAL THIS THE 19 DAY OF April 19 88.

SEAL STAMP

NOTARY PUBLIC

MY COMMISSION EXPIRES 4-23-19 91

NORTH CAROLINA, IREDELL COUNTY

I, ROBERT J. LACKEY, CERTIFY THAT THIS MAP WAS DRAWN FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, DEED AND DESCRIPTION RECORDED IN BOOK 640 PAGE 748, THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION FOUND IN BOOKS REFERENCED, THAT THIS MAP WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 16 DAY OF DECEMBER 19 87.

REGISTRATION NO L-1408, LAND SURVEYOR

NORTH CAROLINA REGISTERED SEAL L-1408 LAND SURVEYOR ROBERT J. LACKEY

STATE OF NORTH CAROLINA
COUNTY OF IREDELL

I, JANET H. LACKEY A NOTARY PUBLIC IN AND FOR THE COUNTY AFORESAID DO HEREBY CERTIFY THAT ROBERT J. LACKEY, A REGISTERED LAND SURVEYOR, PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT.

WITNESS MY HAND AND OFFICIAL STAMP OR SEAL, THIS 16 DAY OF DECEMBER 19 87.

MY COMMISSION EXPIRES MAY 17, 1989

NOTARY PUBLIC

JANET H. LACKEY NOTARY PUBLIC IREDELL COUNTY, N.C.

NORTH CAROLINA, Iredell COUNTY

THE FOREGOING CERTIFICATE OF Jay H. Allgood & Janet H. Lackey NOTARY PUBLIC OF Iredell COUNTY, IS CERTIFIED TO BE CORRECT. PRESENTED FOR REGISTRATION AND DULY RECORDED IN THE OFFICE OF REGISTER OF DEEDS OF Iredell COUNTY IN PLAT BOOK 19 PAGE 97 THIS 13 DAY OF July AD 1988 AT 9:00 O'CLOCK A.M.

REGISTER OF DEEDS

PROVIDED THAT THIS PLAT IS RECORDED WITHIN SIXTY (60) DAYS OF FINAL APPROVAL IT IS RECOMMENDED BY THE

Planning Board

5-4-88 DATE

CHAIRMAN OR AGENT

PROVIDED THAT THIS PLAT IS RECORDED WITHIN SIXTY (60) DAYS OF FINAL APPROVAL IT IS RECOMMENDED BY THE

Iredell County Commissioners

7-5-88 DATE

CHAIRMAN OR AGENT

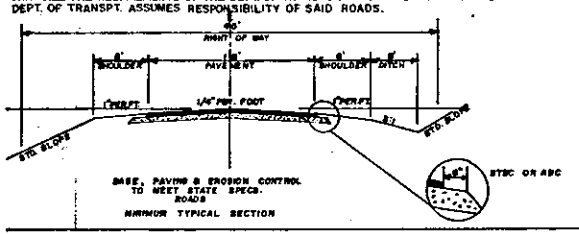
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

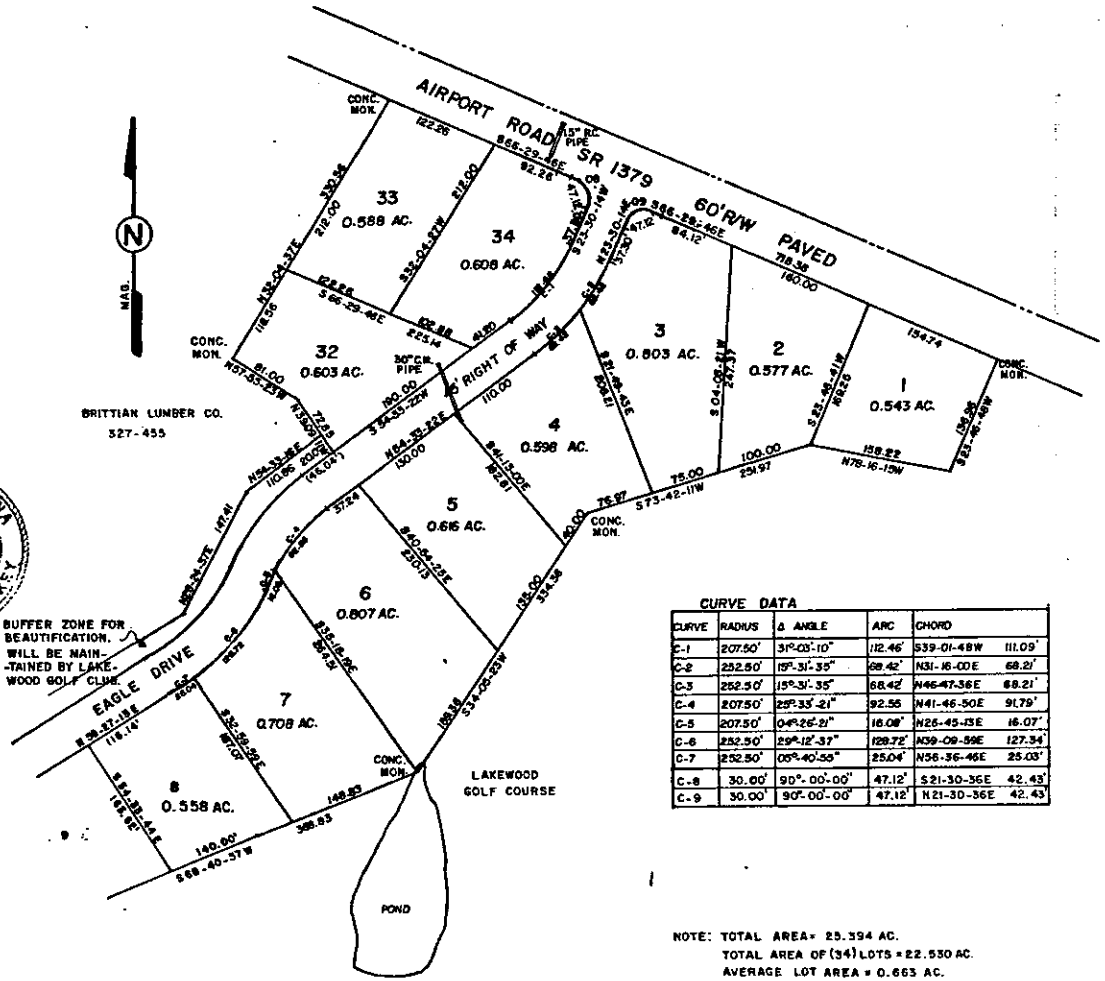
SUBDIVISION ROAD CONSTRUCTION STANDARDS CERTIFICATION

APPROVED: James W Rand
DISTRICT ENGINEER

DATE: April 8, 1988

ALL PRIVATE ROADS ARE THE RESPONSIBILITY OF THE DEVELOPER, UNTIL SUCH TIME THAT ALL THE REQUIREMENTS OF THE DEPT OF TRANSPORTATION ARE MET AND THE DEPT. OF TRANSPT. ASSUMES RESPONSIBILITY OF SAID ROADS.





CURVE DATA

CURVE	RADIUS	Δ ANGLE	ARC	CHORD	
C-1	207.50'	31°-03-10"	112.46'	S39-01-48W	111.09'
C-2	252.50'	15°-31-35"	68.42'	N31-16-00E	68.21'
C-3	252.50'	15°-31-35"	68.42'	N46-47-36E	68.21'
C-4	207.50'	25°-35-21"	92.56	N41-46-50E	91.79'
C-5	207.50'	04°-26-21"	16.08'	N26-45-13E	16.07'
C-6	252.50'	29°-12-37"	128.72'	N39-09-59E	127.34'
C-7	252.50'	05°-40-55"	25.04'	N56-36-46E	25.03'
C-8	30.00'	90°-00-00"	47.12'	S21-30-36E	42.43'
C-9	30.00'	90°-00-00"	47.12'	N21-30-36E	42.43'

NOTE: TOTAL AREA= 25.394 AC.
TOTAL AREA OF (34) LOTS = 22.530 AC.
AVERAGE LOT AREA = 0.663 AC.
IRON PINS AT ALL LOT CORNERS UNLESS OTHERWISE STATED.

NOTE: BUILDING SET-BACK LINES

35' FRONT AND REAR (ALL LOTS)
15' FOR SIDE LINES EXCEPT LOTS 3 & 34 (CORNER LOTS) SET-BACK LINES OF 25'

PAGE ONE (1)

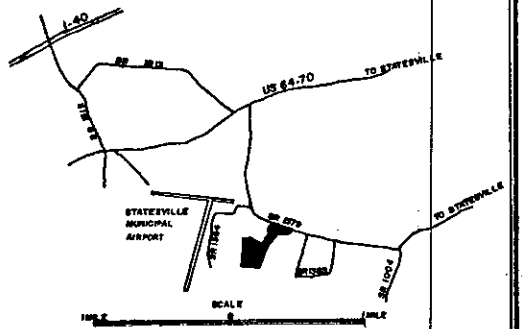
BRITTIAN HILLS

STATESVILLE OUTSIDE TOWNSHIP, IREDELL COUNTY, NORTH CAROLINA
REF: BK. 640 PG. 748 TAX MAP 6D-A-4
PROPERTY OF BRITTIAN HILLS INC.
DWG. NO. 87146

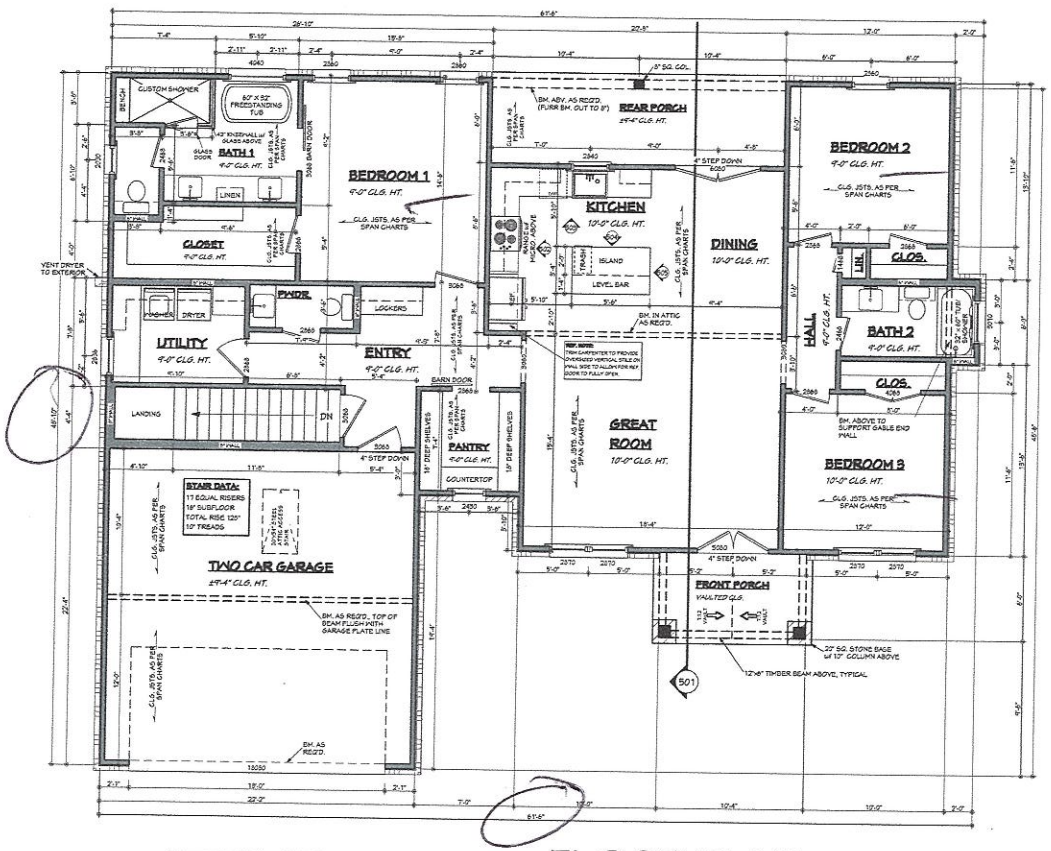
SCALE 1" = 100'

100 75 50 25 0 100 200

VICINITY MAP



ROBERT J. LACKEY SURVEYING INC.			
201 NORTHMONT DRIVE STATESVILLE, NORTH CAROLINA 28677 Ph. (704) 872-4504 ROBERT J. LACKEY R.L.S. N.C. No. L-1408			
SCALE 1in. = 100 ft.		DATE DEC. 23, 1987	
SURVEY BY- DCM	DRAWN BY- J.E.H.	APPROVED BY-	
ORIENTED TO MAG NORTH *	PRECISION 1 PART IN 0.F. '50		
AREA= 25.394 AC.	FILE No.-	DISC. No.-	



FLOOR PLAN

SCALE: 1/4" ========== 1'-0"

WALL FRAMING NOTE: ALL WALLS TO BE 2x4 @ 16" O.C. UNLESS OTHERWISE NOTED.

MECHANICAL NOTE: WATER HEATER & HVAC UNIT TO BE LOCATED IN ATTIC SPACE BY CONTRACTOR.

GARAGE SEPARATION REQUIREMENT:
- CONTRACTOR TO PROVIDE 5/8" TYPE X GYPSUM WALL BOARD ON GARAGE CEILING AND 1/2" GYPSUM WALL BOARD ON INTERIOR SIDE OF GARAGE WALLS AS PER IRC 2018 SECTION AND TABLE R302.6.
- OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE SOLID WOOD DOORS OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8" THICK, OR 20 MINUTE FIRE RATED DOORS, WITH A SELF CLOSING OR AUTOMATIC CLOSING DOOR AS PER IRC 302.5 R302.5.1.

DOOR LABEL/ SIZE: 3068 IS A DOOR THAT IS 3 FT 0 INCHES WIDE BY 6 FEET 8 INCHES TALL. TO FURTHER CLARIFY, THE 3068 LABEL IS TO BE READ AS FEET AND INCHES (WIDTH) AND FEET AND INCHES (HEIGHT). THE DOOR LABEL IS THE ACTUAL SIZE OF THE DOOR ITSELF, NOT THE ROUGH OPENING SIZE. VERIFY THE ROUGH OPENING SIZE WITH THE DOOR MANUFACTURER CHOSEN AT SITE.

WINDOW LABEL/ SIZE: 5050 IS A WINDOW THAT IS 5 FT 0 INCHES WIDE BY 5 FEET 0 INCHES TALL. TO FURTHER CLARIFY, THE 5050 LABEL IS TO BE READ AS FEET AND INCHES (WIDTH) AND FEET AND INCHES (HEIGHT) THE WINDOW LABEL IS THE ACTUAL SIZE OF THE WINDOW ITSELF, NOT THE ROUGH OPENING SIZE. VERIFY THE ROUGH OPENING SIZE WITH THE WINDOW MANUFACTURER CHOSEN AT SITE.

AREAS (FRAME):

1623	S.F. HEATED TOTAL WITHOUT MASONRY
62	S.F. UNHEATED - FRONT PORCH
124	S.F. UNHEATED - REAR PORCH
72	S.F. UNHEATED - BASEMENT STAIRS
494	S.F. UNHEATED - TWO CAR GARAGE
752	S.F. TOTAL UNHEATED
2375	S.F. TOTAL UNDER ROOF

SQUARE FOOTAGE CALCULATION NOTES:
1. SQUARE FOOTAGE OF HEATED AREA IS FIGURED TO THE OUTSIDE OF THE STUDWALL OF THE EXTERIOR WALLS (DOES NOT INCLUDE MASONRY OR OTHER EXTERIOR MATERIALS).
2. FIREPLACES THAT PROTRUDE FROM THE EXTERIOR FOOTPRINT ARE NOT INCLUDED IN THE HEATED AREA.
3. STAIRWELLS ARE ONLY INCLUDED IN THE FIRST FLOOR CALCULATIONS AND NOT THE SECOND FLOOR CALCULATIONS (IF APPLICABLE).

FLOOR PLAN NOTES: (2018 IRC)

1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
2. ALL EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF THE STUD AND DO NOT INCLUDE EXTERIOR FINISHES SUCH AS SIDING, BRICK, STUCCO, ETC.
3. ALL FINISHES (INTERIOR & EXTERIOR) TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
4. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY ALL ROUGH OPENING SIZES.
5. CONTRACTOR TO VERIFY ALL CLEARANCES OF ALL DOORS, WINDOWS AND OTHER ITEMS THAT ARE CRITICAL, PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE.
7. ALL BEAMS TO BE SIZED BY A LICENSED STRUCTURAL ENGINEER.
8. PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD. IRC 2018, R312.1.1 & R312.1.2
9. M1305.1.2 APPLIANCES IN ATTICS. ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES HIGH AND 22 INCHES WIDE AND NOT MORE THAN 20 FEET LONG MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING IN ACCORDANCE WITH CHAPTER 5 NOT LESS THAN 24 INCHES WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES, AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE. EXCEPTIONS: (A) THE PASSAGEWAY AND LEVEL SERVICE SPACE ARE NOT REQUIRED WHERE THE APPLIANCE CAN BE SERVICED AND REMOVED THROUGH THE REQUIRED OPENING. (B) WHERE THE PASSAGEWAY IS UNOBSTRUCTED AND NOT LESS THAN 6 FEET HIGH AND 22 INCHES WIDE FOR ITS ENTIRE LENGTH, THE PASSAGEWAY SHALL BE NOT MORE THAN 50 FEET LONG.
10. APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT. APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. M1305.1.1
11. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. WINDOW OPENING CONTROL DEVICES COMPLYING WITH ASTM F 2090 SHALL BE PERMITTED FOR USE ON WINDOWS SERVING AS A REQUIRED EMERGENCY ESCAPE AND RESCUE OPENING. ALL SLEEPING ROOMS TO HAVE AN EXTERIOR ACCESS THROUGH A DOOR OR WINDOW WITH A MINIMUM OF 5.7 SQUARE FEET NET CLEAR OPENING AS PER IRC 2018 R310.2.1. EXCEPTION: GRADE FLOOR OR BELOW GRADE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET. MAXIMUM SILL HEIGHT TO BE 44 INCHES. MINIMUM NET CLEAR OPENING HEIGHT TO BE 24 INCHES. MINIMUM NET CLEAR OPENING WIDTH TO BE 20 INCHES.
12. ALL RETURN AIR GRILLS ARE TO BE LOCATED TO COMPLY WITH SECTION M1602 OF THE IRC 2018.
13. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE AND MAY DIFFER FROM ACTUAL CONSTRUCTED RESIDENCE OR BUILDING. FOOTAGES SHOWN ARE TO THE OUTSIDE OF THE STUDWALL AND DO NOT INCLUDE THE EXTERIOR FINISH MATERIAL SUCH AS SIDING, BRICK, STONE ETC.
14. FIRE SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED (IF REQUIRED BY LOCAL CODES) AS PER THE IRC 2018 AND BY A LICENSED PROFESSIONAL IN THE AREA OF CONSTRUCTION.
15. ALL BATHROOM EXHAUST VENTS SHALL BE VENTED DIRECTLY TO THE EXTERIOR OF THE HOME AND NOT INTO THE ATTIC. IRC 2018, M1505.2

Acknowledgement Of Plans Submittal ONLY!

_____ Date 6/22/21

_____ Date 11/1/21

HOUSE PLAN ZONE
Designing Home Building Relationships
Website: www.HPZplans.com
Email: sales@hpzplans.com
Phone: 601.336.3254
Fax: 1.800.574.1387
N·C·B·D·C NATIONAL COUNCIL OF BUILDING DESIGNERS CERTIFICATION
JONATHAN L. BOONE
CERTIFICATION NO. 25-137

Pre-Drawn Plan ID: 1599

House Plan Zone, LLC has exercised great care and effort in the development of these plans and the completion of these construction documents. However, we cannot guarantee against human error. House Plan Zone, LLC assumes no responsibility for any damages, including structural failures resulting from errors, omissions or deficiencies in the plans. House Plan Zone, LLC assumes no responsibility for any damages resulting from the use of these plans by anyone other than the original purchaser. In addition to your local building officials prior to construction. Additional engineering may be required for some local conditions. It is the responsibility of the owner and/or contractor to determine if any additional engineering is required and to obtain any such engineering prior to construction. If a foundation plan has been included in these plans, it is general in nature and shall be verified by a licensed engineer prior to construction.

Date: 01.21.21

Drawn By: J.A.L.

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SHEET NUMBER 3

CITY of Statesville NORTH CAROLINA

City of Statesville Jurisdiction
ZONING APPROVAL

For building permit application **704-878-3575**

General Information

Job Address	161 SANDTRAP DR	Permit Number	321238
Owner	BEST JOEL D+SHELBY L	Tax Map	4723269893.000
Owner		Zoning	R-20
Address			
		Flood Hazard Area	
Phone No.		Historic District	
Contractor	Jeffrey Balthaser	Architect	
Address	P.O. Box 154	Address	
	Mount Morn,NC 28123		
Phone No.	(980)275-2096	Phone No.	

Type of Application New single family

Utility Source

Electric

Water

Sewer

Required Information

0	Lot Dimensions		Required Parking	**Setbacks**	
	Structure Size &		Landscaping	35	Front Yard
	Location		Utility Clearance	35	Rear Yard
	Easements		TRC Review	12	Right Yard
	Flood Certification		Other	12	Left Yard
	Driveway Cuts				

Department Approval

Planning Department EA 9/7/2021 Public Works

Comments

I certify that all statements made in this application and any attached documents are true, complete, and correct to the best of my knowledge and belief and are made in good faith. I understand that false information may be grounds for rejection of this application. Authorized Health Department and Inspection Department Representatives are granted right of entry to make evaluations or inspections and to release information upon public request.

Applicant Signature

Date 9/7/2021