ICHD–ENVIRONMENTAL HEALTH DIVISION

PJB

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

PERMIT # 303214

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

PIN # 4760586798

APPLICANT/OWNER: Ashley Peters / CS&SC | APPLICANT ADDRESS: 171 Gabriel Dr. Mooresville, NC 28115

SITE ADDRESS: 122 Pleasant Creek Dr. Cleveland, NC | PHONE: 321-223-7626 | ALT. PHONE —

SITE DIRECTIONS: Hwy 801 N TL Triplett Rd TL Winthrow Creek TR Shinnville Rd TL Brawley Rd TR Pleasant Creek

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Brawley Acres | SECTION: — | LOT # 3-4 | LOT AREA: 1.899Ac | DESIGN FLOW: 360gpd | L.T.A.R.: .3

Septic Tank	1000 (gal)	STB 760	Date 2-17-20	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank	1000 (gal)	PT 363	Date 3-20-20	System Description:	Deep High Capacity Chambers			☐ Business	No. Persons 6
Pump Make	Zoeller	Model BN152	Serial #	Repair System Description:	TSF II Drip Irrigation			☐ Other	No. Employees
# Nitrification Fields	1	# Lines 5	Linear Ft 400	Maintenance Agreement Required:	☐ YES	☒ NO		☐ Slab	☒ Crawl Space
Trench Width	36"	Trench Bottom Depth(Low side)	55"	Gravel Depth		☐ GRAVITY	☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Divert Storm/Surface water away from Septic System

Note: No reduction for using Chambers due to Installation depth.

Note: PM Design lines 1 & 2 on 1 tap - sch 40 1/2" Lines 3, 4 & 5 each on sch 80 1/2" tap.

INITIAL SITE SKETCH

See attached, approved Septic plan by Carolina Soil & Septic Consulting, PLLC (dated 12/9/19)

AS BUILT SKETCH

22ft from HC to PT
Supply line 30" under drive
4/28/20 mS

	Date	Initials
Drain Lines Checked	4/28	mS
Tanks Checked	4/28	mS
Pressure Manifold or Valve Box Checked	7/16/2020	PJB
Pressure Head Set	7/16/2020	PJB
Electrical Checked	7/16/2020	PJB
Floats Set	7/16/2020	PJB
Alarm Checked	7/16/2020	PJB
Maintenance Contract Y / N	7/16/2020	PJB

Supply line 4/28/20 mS

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: Ashley Peters | Date: 1/28/2020 | Installed by: Ground Breakers

IMPROVEMENT PERMIT by: Maria Salazar | Date: 1/6/2020 | OPERATION PERMIT by: Patrick Triplett | Date: 7/16/2020

AUTHORIZATION TO CONSTRUCT by: Maria Salazar | Date: 1/28/2020 | Existing System Inspected by: | Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inpsector to confirm your inspection time.


PLEASANT CREEK
100'
TERRACE
1 R 48'
2 B 76'
3 P 92'
4 B 92'
5 O 92'
DRIVEWAY
TBM
P3
P4
P5
Supply line must be minimum 30" under drive
281.63'
222.85'
246.11'
173.43'
406'
156.96'
25'
87'
70'
47'
75'
HOUSE BOX
SHOP
30'
40'
OHC
P1
P2
ST
380G+ SQFT DRIP AREA
TS II
PROPERTY LINE TO BE REMOVED
SILT POND
WELL
100'
100'
Approved
Updated
SCALE
1"=50'

INFORMATION FOR INSTALLER:

- The permit should be read very carefully prior to submitting bid. 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 when requested.
- All tanks shall be properly back filled and compacted to prevent slumping at a later date.
- The installer is responsible for final grades and returning that grade to original, with exception of added structural features.
- The supply trench shall be compacted to eliminate any 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 has no more than 1/4"fall in 10 feet with no high or low areas within. If high or low areas do exist after trench excavation, high areas should be removed rather than filling in low areas. Do not over excavate trenches! Any fine grading should be completed by hand with a rake and shovel, leaving no loose material.
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral to prevent unwanted lateral water movement.
- Elevations at pin flag locations should be checked by the installer prior to beginning trenches to insure accuracy.
- Pump tank riser should be 6" above grade, control panel should be 12" above grade.
- If septic tank riser is used it should be a minimum of 6" above finished grade or within 6" below finished grade.
- Design precludes use of foundation drains on the residence and assumes back filling for positive drainage unless other wise noted.
- Trench walls should be raked, limed and installed at the depth specified by this design.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **System is specified as a Deep High Capacity Chamber Pressure Manifold installation.**
- **Repair is specified as a TS-1 Drip Irrigation installation.**
- **If grading for slab foundation is utilized do not grade/create greater than 2 ft of elevation difference within 15 ft of any component of the septic or repair. If back filling do not backfill over any initial or repair septic line.**

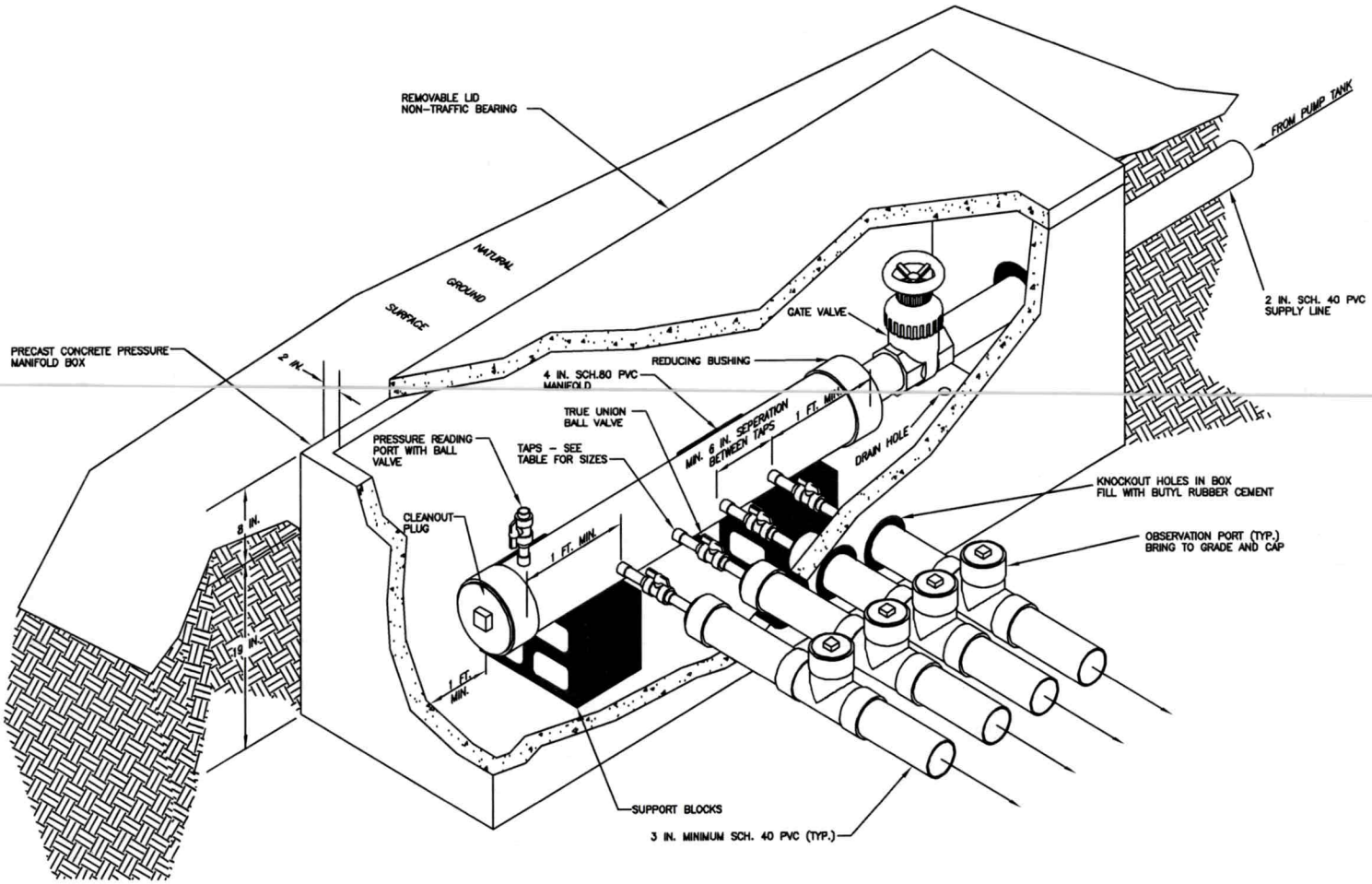
PRESSURE MANIFOLD SYSTEM
DESIGN SPECIFICATIONS

Owner:	Belk & Belk Construction
Address:	132 Ideal Dr. Mooresville, NC 28115
Client:	Ashley Peters
Phone:	321-223-7626
County:	Iredell
Location:	122 PLEASANT CREEK DRIVE
Drainfield Design Flow (gpd):	360
Loading/Soil Application Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Total Lateral Length From Layout:	400
Total Lateral Length Required:	400
Trench Depth:	55 in. Low side
Trench Width:	36 in.
Trench Spacing:	9 ft. on center
Trench Bottom Area:	1200
Repair Trench Spacing:	2 ft. on center
Repair Trench Depth:	6 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	155
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	26.97
Dosing Volume:	182.84
Pump Tank Draw Down:	8.7
Supply Manifold Size:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Dosing Controls:	Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	NEMA 4X Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	1.27
Elevation Head:	16.00
Total Dynamic Head:	23.96
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by CS&SC

Approved
1/16/2020

**Pump tank draw down based on an industry standard volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

TYPICAL PRESSURE MANIFOLD DETAIL



Approved
1/6/2020

PRESSURE MANIFOLD TAPSHEET - 122 PLEASANT CREEK DRIVE SYSTEM

Line #	Color	Elev	Length	Hole Size	Flow/Tap	gpd	Trench Area	Line LTAR
1 & 2	*R & B*		*124*	SCH 40 1/2	**7.11**	55.20	372	0.15
3	*PINK*		*92*	SCH 80 1/2	**5.48**	42.55	276	0.15
4	*BLUE*		*92*	SCH 80 1/2	**5.48**	42.55	276	0.15
5	*ORANGE*		*92*	SCH 80 1/2	**5.48**	42.55	276	0.15
	total	**feet =**	**400**	**gal/min =**	**23.55**			
			Des. Flow	**360**				
			Pump Run=	**7.76**				
			LTAR	**0.300**				

Some lines flagged longer in the field, shorten to lengths shown here.

Approved
1/6/2020
MP

Sheet 1 OF 1
PROP. ID #: 4760586664
COUNTY: IREDELL

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

OWNER: BELK CONSTUCTION INC
ADDRESS: 132 IDEAL DR MOORESVILLE NC 28115
PROPOSED FACILITY: SFR PROPOSED DESIGN FLOW (.1949): 360 GPD
LOCATION OF SITE: 122 PLEASANT CREEK DR CLEVELAND NC 27013

APPLICATION DATE:
DATE EVALUATED: 11/11/2019
PROPERTY SIZE: 1.899 AC
PROPERTY RECORDED: YES

WATER SUPPLY: PRIVATE PUBLIC X WELL SPRING OTHER:

EVAL. METHOD: A. BORING X PIT CUT **WASTEWATER TYPE** X SEWAGE INDUSTRIAL PROCESS MIXED

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE MINERALOGY	.1942 SOIL WETNESS/C OLOR	.1943 SOIL DEPTH	.1956 SAPROLITE CLASS	.1944 RESTR HORIZON	
1	LS 7%	0-7	BR SCL WSBK	FR SS SP SEXP	YB 28+ CHR2 28+	40"	N/A	28"	0.25
		7-49	R C WABK	FI S P SEXP					
2	LS 8%	0-8	BR SCL WSBK	FR SS SP SEXP	Y/BR 8-37" CHR2 28+	37"	N/A	28"	0.25
		8-37	R C WABK	FI S P SEXP					
3	LS 9%	0-9	BR SCL WSBK	FR SS SP SEXP	Y/BR IS LITHO	49"	FEW INC 9-43" MANY INC 43-49"	N/A	0.3
		9-43	R C MABK	FI S P SEXP					
		43-49	R CL WSBK	FI S SP SEXP					
		49-79	LSAP MASS	FI SS SP SEXP					
5	LS 8%	0-7	BR SCL WSBK	FR SS SP SEXP	Y/BR/CHR2 7-34"	52"	COM C VEINS 52-65" COM TO MANY SAP 41-52"	7-34"	.3 34-82"
		7-41	R C MABK	FI S P SEXP					
		41-52	R CL WABK	FR SS SP SEXP					
		52-82	LSAP MASS	FI SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
AVAILABLE SPACE (.1945)	PS	PS
SYSTEM TYPE(S)	PM HIGH CAPACITY CHAMBERS	DRIP IRRIGATION
SITE LTAR	0.3	0.1
COMMENTS		

OTHER FACTORS (.1946):	N/A
SITE CLASSIFICATION (.1948):	PS
EVALUATED BY:	BEN ALDRIDGE
OTHER(S) PRESENT	JACOB CONRAD, RUSTY ORBISON

2100 $350/$50 12/17/19
AP-303214

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

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: ASHLEY PETERS/CS&SC **Address:** 171 GABRIEL DR. MOORESVILLE, NC. **Zip:** 28115

Applicant Email: _____ **Phone:** 321-223-7626 **Alt. Phone:** _____

Owner Name: BELK AND BELK CONSTRUCTION **Address:** 132 IDEAL DR. MOORESVILLE, NC 28115 **Zip:** _____

Owner Email: _____ **Phone:** 704-634-9349 **Alt. Phone:** _____

Property Information:

Street Address: 112 PLEASANT CREEK DR, CLEVELAND, NC 27013

Subdivision Name: BRAWLEY ACRES **Section/Phase:** _____ **Lot Number:** 4&5

Driving Directions: HWY 801, TL ON TRIPLETT RD, TL WINTHROW CREEK, TR ON SHINVILLE RD, TL ON BRAWLEY RD

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

CHECK FOUNDATION TYPE

(X) New Single Family Residence
( ) New Multi-Family Residence
(X) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

Maximum Number of Bedrooms: 1 3 AP
Maximum Number of Occupants: 8
( ) Swimming Pool
( ) Other Addition/Structure: _____

(X) 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: _____

(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: _____

(X) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) 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: BA Belk 12-16-19

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, BRUCE BELK, am the legal owner(s) of the property located at 122 & 118 PLEASANT CREEK DR. CLEVELAND, identified as PIN (Parcel Identification Number) 4760-58-6664 / 4760-58-7802, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) ADRIAN PRUETT, CS&SC, 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.

Bruce Belk / Sec 12/3/19
Signature of Owner(s) Date

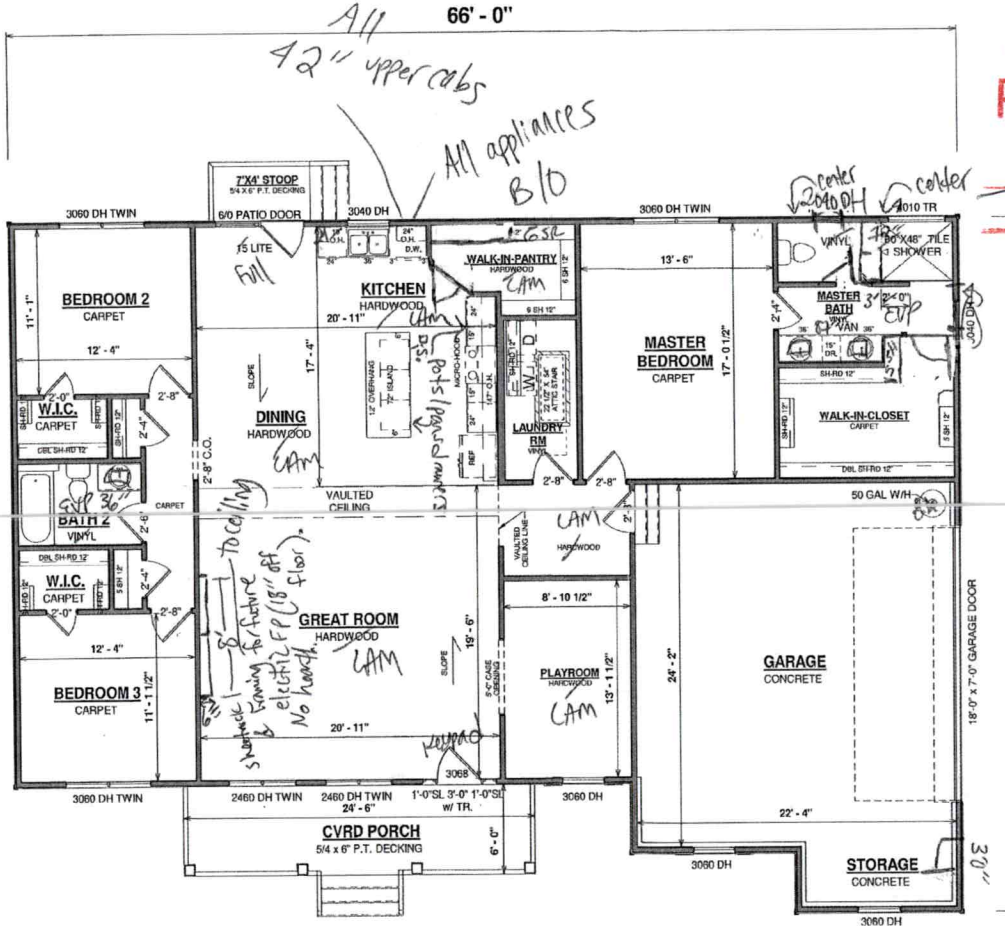
Signature of Witness Date

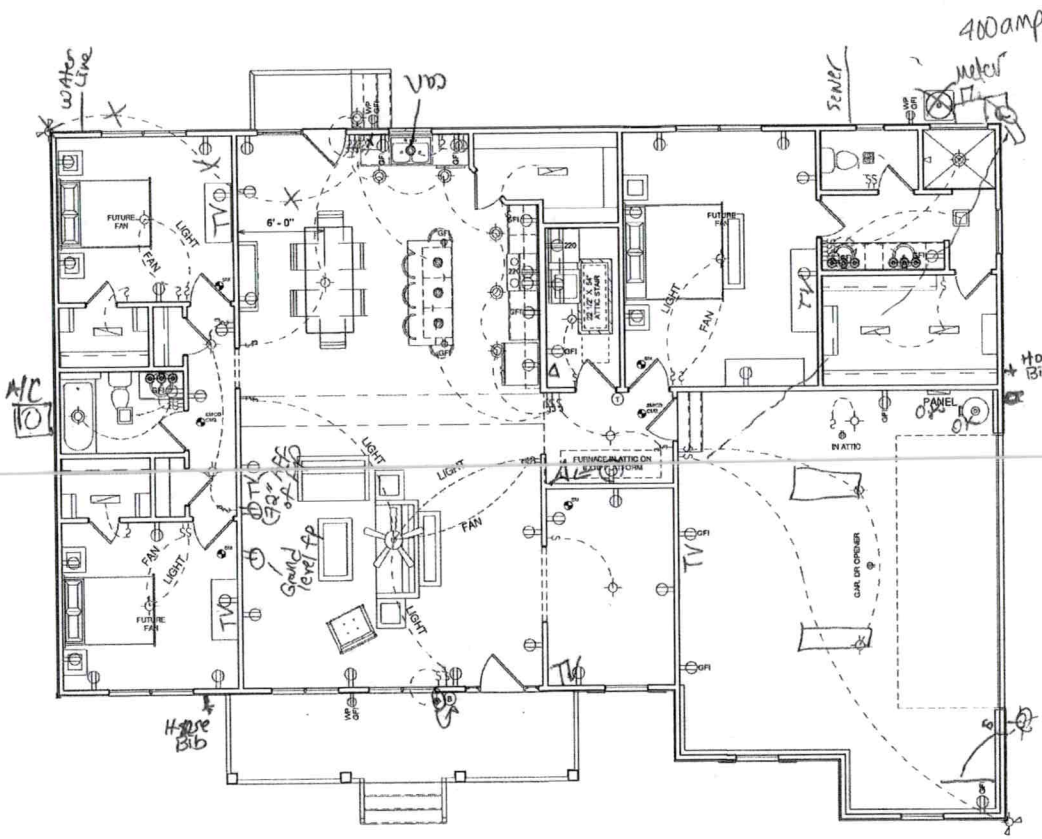
Belk and Belk Construction, Inc.

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


66' - 0"
All 42" upper cabs
All appliances B/O
7'X4' STOOP
5/4 X 6' P.T. DECKING
6/0 PATIO DOOR
3040 DH
3060 DH TWIN
3010 TR
15 LITE
Full
BEDROOM 2
CARPET
12' - 4"
11' - 1"
W.I.C.
CARPET
2'-0"
2'-8"
2'-4"
BATH 2
VINYL
KITCHEN
HARDWOOD
20' - 11"
WALK-IN-PANTRY
HARDWOOD
DINING
HARDWOOD
17' - 4"
VAULTED CEILING
LAUNDRY RM
VINYL
MASTER BEDROOM
CARPET
13' - 6"
17' - 0 1/2"
MASTER BATH
VINYL
60"X48" TILE SHOWER
WALK-IN-CLOSET
CARPET
50 GAL W/H
GREAT ROOM
HARDWOOD
19' - 6"
8' - 10 1/2"
PLAYROOM
HARDWOOD
13' - 1 1/2"
BEDROOM 3
CARPET
11' - 11 1/2"
GARAGE
CONCRETE
24' - 2"
22' - 4"
18'-0" x 7'-0" GARAGE DOOR
46' - 2"
STORAGE
CONCRETE
3068
2460 DH TWIN
24' - 6"
1'-0"SL 3'-0" 1'-0"SL w/ TR.
CVRD PORCH
5/4 x 6" P.T. DECKING
6' - 0"
2'-8" C.O.
SLOPE
12" OVERHANG
SHELVES
MUSHROOM
REF
SH-RD 12"
DBL SH-RD 12"
SGH 12"
DBL SGH 12"
5'-0" CASE OPENING
VAULTED CEILING LINE
HARDWOOD
Ceiling
Future Framing & electric
FP (18" off floor).
No hood.
Shelves
Pantry
Pocket door
Pocket door
Pocket door



1 F.F. ELEC & HVAC
1/8" = 1'-0"

OPT. PAPER SIZE: for 1/4" = 1'-0" on 24"x36" PAPER SIZE ENLARGE PRINTS TO 200%

PRELIM DESIGN PLANS

Revision Schedule		
Revision Number	Revision Description	Revision Date
1	PRELIMINARY PLAN	12/2/19

AREAS:	
FIRST FLOOR HEATED	2,025 SF
GARAGE	903 SF
FRONT PORCH	147 SF
TOTAL UNDER ROOF	2,775 SF
3'x4' STOOP	28 SF
TOTAL UNCOVERED	28 SF

THE: GLENRIDGE A

FOR: TERRY & ASHLEY PETERS

PLEASANT CREEK DRIVE LOTS 3 & 4 BRAWLEY ACRES CLEVELAND, NC

OFFICE: STATESVILLE SALES

SOLD BY: JILL SCHOOLEY

JOB#: 8719076

2x4 EXTERIOR WALLS UNLESS OTHERWISE NOTED

FOUNDATION TYPE: CRAWL SPACE

DRAWN BY: DJV

CHECKED BY: R.THOMPSON

PRINT DATE: 12/2/2019 10:26:53 AM

PROPERTY OF:

SHEET NUMBER: DP-4

F.F. ELECTRICAL DESIGN

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PAPER SIZE: 11" x 17" SCALE: 1/8" = 1'-0"

IREDELL COUNTY · NC

IREDELL COUNTY
PO Box 788
349 North Center St.
Statesville, NC 28677

APPLICATION NUMBER
303214
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4760586664.000	122 PLEASANT CREEK DR	Iredell County

Owner Information	Applicant Information
Name: BELK+BELK CONSTRUCTION INC	Name: CAROLINA SOIL SEPTIC CONSULTING, PLLC
Address:	Address: 162 WEST B ST KANNAPOLIS, NC 28081
Phone:	Phone: (704)202-5791

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.711	35	35	15	15	N/A	NO

Remarks
SFD

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

Signature of Owner/Contractor

Date: 12/06/2019

Permit Number	303214	TOTAL FEES	$77.25