ICHD–ENVIRONMENTAL HEALTH DIVISION

PJP

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

AP

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

PERMIT # 308734

APPLICANT/OWNER: Wei Xin | APPLICANT ADDRESS: 132 Ensign Place Mooresville, NC 28117

SITE ADDRESS: 118 Driftwood Dr. Mooresville, NC 28117 | PHONE: 980 521 1393 | ALT. PHONE

PIN # 4636515546

SITE DIRECTIONS: Brawley School Rd TL Stotts Rd TR Cove View Dr TL Driftwood on Rt.

SUBDIVISION: Cove View Park | SAP CONTROLLED: [X] YES [ ] NO

SECTION: — | LOT # 21+LL | LOT AREA: .36 Acre | DESIGN FLOW: 360gpd | L.T.A.R.: .325

Septic Tank 1000 (gal) | STB 194 | Date 3-11-21

Pump Tank (gal) | PT | Date

Pump Make | Model | Serial #

Nitrification Fields 1 | # Lines 7 @ 27' | Linear Ft 189'

Trench Width min. 24" | Trench Bottom Depth (Low side) 36" MAX | Gravel Depth N/A

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

System Description: Gravity - PPBPS

Repair System Description: LP PPBPS

Maintenance Agreement Required: [ ] YES [X] NO

[X] GRAVITY [ ] PRESSURE

[X] Residence | No. Bedrooms 3

[ ] Business | No. Persons 6

[ ] Other | No. Employees

[ ] Slab | [X] Crawl Space

[ ] Basement w/plumbing | [ ] Basement w/o plumbing

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

Comments / Conditions:

Divert Storm/Surface water away from Septic

Note: Floor plans submitted will be flipped so drive comes in as shown on Septic plan.

* Must have drive as shown in approved plan.

INITIAL SITE SKETCH

See attached, approved Septic plan by Soil & Forestry Services. (dated 5/7/2020)

AS BUILT SKETCH

17 ft btw house & ST

Installed Panel lines as Shown.

leveled water in D-box

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:

IMPROVEMENT PERMIT by: Maria Dotson Date: 07/31/2020

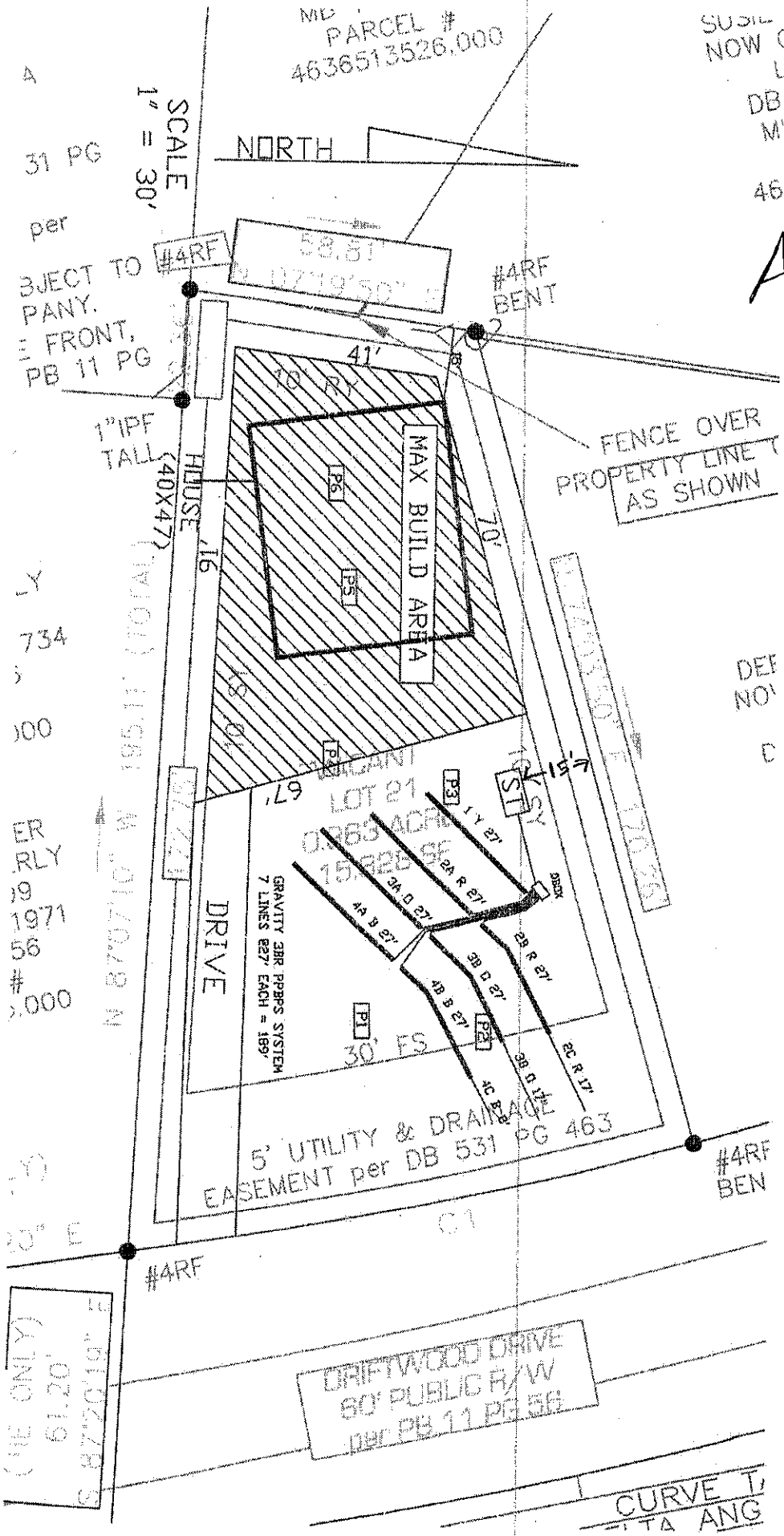
AUTHORIZATION TO CONSTRUCT by: Maria Dotson Date: 8/17/2020

Installed by: Adan Garcia Date: 7/16/2020

OPERATION PERMIT by: Maria Dotson Date: 5/27/21

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.



Approved
7/16/2021
MD

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for a PPBPS Septic System with gravity distribution for a 3 bedroom single family residence on Lot 21, Cove View Park (PIN: 4636515546), 118 Driftwood Drive, Mooresville NC 28117.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
System Tapsheet	5
Site Plan/System Plan	6
Calculations	7
Profile Descriptions	8-9
Isometric Drawing of 16" T & J Panel System Gravity Drainfield	10
Zoning Permit & Receipt	11-13
Application	14-15
Green Sheet	16
Expedited Review Checklist	17

Project No.20-0027
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 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.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a PPBPS installation with gravity distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 24" wide to be level but have no more than 1/4" fall in 10 feet.
- **Lot is Repair Exempt - see Attached Plat dated October 14th, 1974**
-

GRAVITY PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Ji Xinjia
Address:	132 Ensign Place Mooresville, NC 28177
Phone:	980.521.1393
County:	Iredell
Location:	118 Driftwood Drive

Approved
7/16/2020
MD

Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	N/A

Design Specifications

Drainfield Size:	189
Loading Rate:	0.325
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth:	36 in. Repair - 36 in.
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	15
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	5.70
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

118 Driftwood Drive
GRAVITY PPBPS

DESIGN FLOW:	360
SOIL APPLICATION RATE:	0.325
TOTAL AREA TRENCH BOTTOM:	378
TOTAL LATERAL LENGTH:	189
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	184.62
SUPPLY LINE LENGTH:	15
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

Approved
7/16/2020
MD

Approved
7/16/2020
MD

COVE VIEW PARK - LOT 21

Project #:20-0027

LAYOUT FOR 3 BEDROOM HOME

May 7, 2020

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
HOUSE CNR							
P. TANK							
1	*YELLOW*					*27*	*27*
2A	*RED*					*27*	*27*
2B	*RED*					*27*	*27*
2C	RED					17	17
3A	*ORANGE*					*27*	*27*
3B	*ORANGE*					*27*	*27*
3C	ORANGE					17	17
4A	*BLUE*					*27*	*27*
4B	*BLUE*					*27*	*27*
4C	BLUE					8	8
					Total	231	231

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*189*	*0.325*	*MOD. CONV.*	*0.325*	*PPBPS*	*GRAVITY*
Repair	42	0.325	MOD. CONV.	0.325	PPBPS	LOW PRESSURE

Notes: **Plat date of Lot is October 14, 1974

**All measures in feet

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

GRAVITY PPBPS SPECIFICATIONS - LOT 21

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	# of Panels
1	*YELLOW*	*N/A*	*27*	*N/A*	*N/A*	54	6
2A	*RED*	*N/A*	*27*	*N/A*	*N/A*	54	6
2B	*RED*	*N/A*	*27*	*N/A*	*N/A*	54	6
3A	*ORANGE*	*N/A*	*27*	*N/A*	*N/A*	54	6
3B	*ORANGE*	*N/A*	*27*	*N/A*	*N/A*	54	6
4A	*BLUE*	*N/A*	*27*	*N/A*	*N/A*	54	6
4B	*BLUE*	*N/A*	*27*	*N/A*	*N/A*	54	6
						378	42

total	feet =	189	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		

Approved
7/16/2020
MD

CALCULATIONS

Location 118 DRIFTWOOD DRIVE

Project Number 20-0027

Lot No: 21

Approved
7/16/2020
MD

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.325	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	15	ft.
Supply Line Volume	5.7	gal.
Required Feet of Line	184.62	ft.
Amount of Line from Layout	189	ft.
Gallons per Minute	N/A	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	42	
Dosing Volume	N/A	gal.
Tank Draw Down	N/A	
Pump Run Time	N/A	minutes
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
	0.86
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

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4636515546
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Approved 7/16/2020 MD

OWNER: Xi Xinxia
ADDRESS: Driftwood Drive, Mooresville NC 28117 Lot 21+22
PROPOSED FACILITY: SBK
LOCATION OF SITE: Driftwood Drive, Mooresville NC 28117
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☒ Other Community Well
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut

APPLICATION DATE
DATE EVALUATED: 3/4/20
PROPOSED DESIGN FLOW (.1949): 360gpd
PROPERTY SIZE: 0.36ac
PROPERTY RECORDED: Yes
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P1	L/5-7% Upper Side of Pit Lower Side 36" Fill	0-32	Fill			80"			PS .3-.35
		32-39	BRCL wfsbk	Fr SS SP					
		39-47	BRC wmsbk	Fr SS SP					
		47-80	RBCL wfsbk	Fr SS SP	-C.SAP				
P2	L/5-7%	0-3	BCL wfsbk	Fr SS SP		55"			PS .35+
		3-27	RBCL wfsbk	Fr SS SP	-Few to C.SAP				
		27-55	RBL vwfsbk	Fr SS SP	-Many SAP Inclusions				
		55-64	VAR.L MASS	Fr SS SP					
P3	L/5-7%	0-26	BRCL wfsbk	Fr SS SP	-C.SAP	36"			PS .35+
		26-36	RBL vwfsbk	Fr SS SP	-Many SAP Inclusions				
		36-62	VAR.L MASS	Fr SS SP					
P4	L/5-7%	0-11	Fill			62"			PS .3
		11-13	BL Gr	Fr SS SP					
		13-37	BRC wmsbk	Fr SS SP					
		37-62	RBCL wfsbk	Fr SS SP	-Few to C. SAP Inclusions				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	Exempt
System Type(s)	PPBPS	PP&PS
Site LTAR	0.325+	0.325+

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 #: 463651554 6
DATE OF EVALUATION: 3/4/20
COUNTY: Iredell

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
P5	4/5-7%	0-4	RBCL wfsbk	Fr SS SP	- C. Fe Depl. Ch. @ 25@11-20"	79"			PS .3 dep
		4-23	BRC wmsbk	Fr SS SP					
		23-41	BRC wmsbk/Abk	Fr SS SP					
		41-79	RBCL wfsbk	Fr SS SP	- Few SAP Inclusions				
P6	4/5-7%	0-10	BCL wfsbk	Fr SS SP	- C. Fe Depl. Ch. @ 20-30"	70"			PS .3 dep
		10-33	BRC wmAbk	Fr SS SP					
		33-48	RC wmsbk/Abk	Fr SS SP					
		48-70	RBCL wfsbk	Fr SS SP					

COMMENTS:

RECEIVED JUL 2 - 2020

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $350.00

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) 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

AP-308734

The following optional attachments may also be submitted:
Place an (X) beside whichever is submitted if applicable
(X) Survey Plat, scaled no more than 1 inch = 60 feet
( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

****

Applicant Information: (PRINT CLEARLY)

Applicant Name: Wei Xin Address: 132 Ensign Place Mooresville NC Zip: 28117
Applicant Email: whitewaxin@gmail.com Phone: 980 521 1393 Alt. Phone: _____
Owner Name: Ji Xinjia Address: same Zip: _____
Owner Email: same Phone: same Alt. Phone: _____

****

Property Information:

Street Address: 118 Driftwood Dr Mooresville NC 28117
Subdivision Name: Cove View Park Section/Phase: _____ Lot Number: 27
Driving Directions: Statts, Rt on Cove View Dr, Lt on Driftwood Dr, Lot on Rt

****

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
(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: _____

( ) New Well ( ) Existing Well (X) 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: Samuel A Tolle 5/7/20
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, Jixin Li, am the legal owner(s) of the property located at 118 Driftwood Dr Mooresville NC 28117, identified as PIN (Parcel Identification Number) 4636515546, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Samuel Ashley Rollans Rollans Soils Environmental Services, 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.

* Jixin Li 06/30/20 * Jixin Li 06/30/20

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

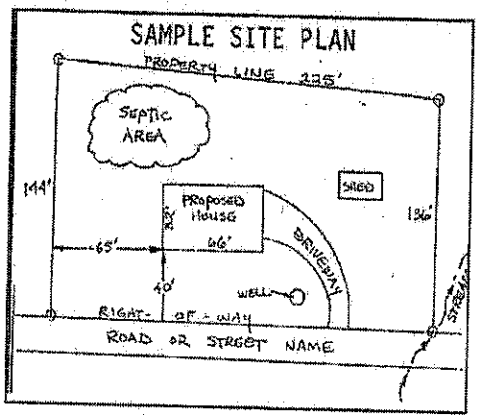
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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**

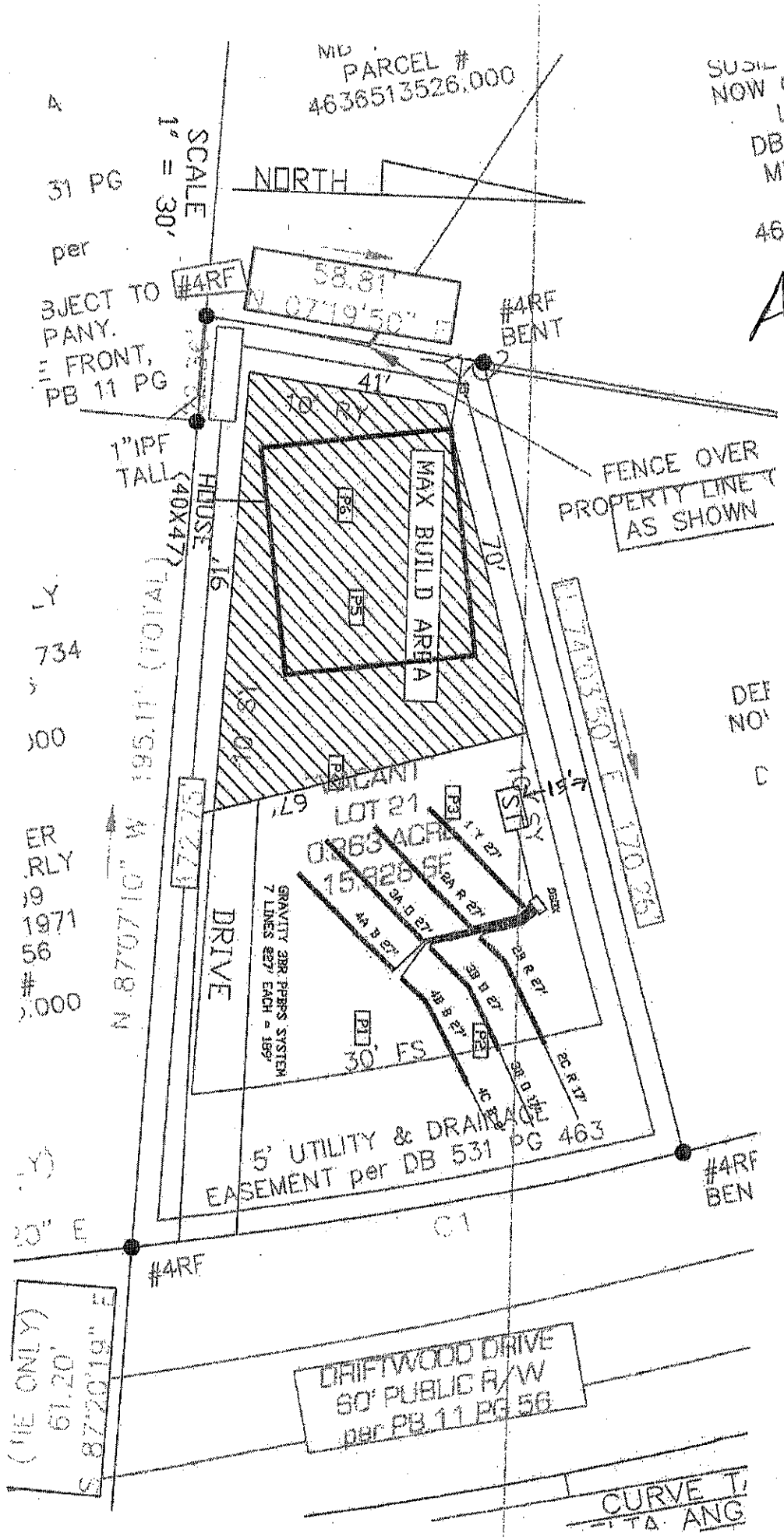
USE THIS SPACE TO DRAW YOUR SITE PLAN

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

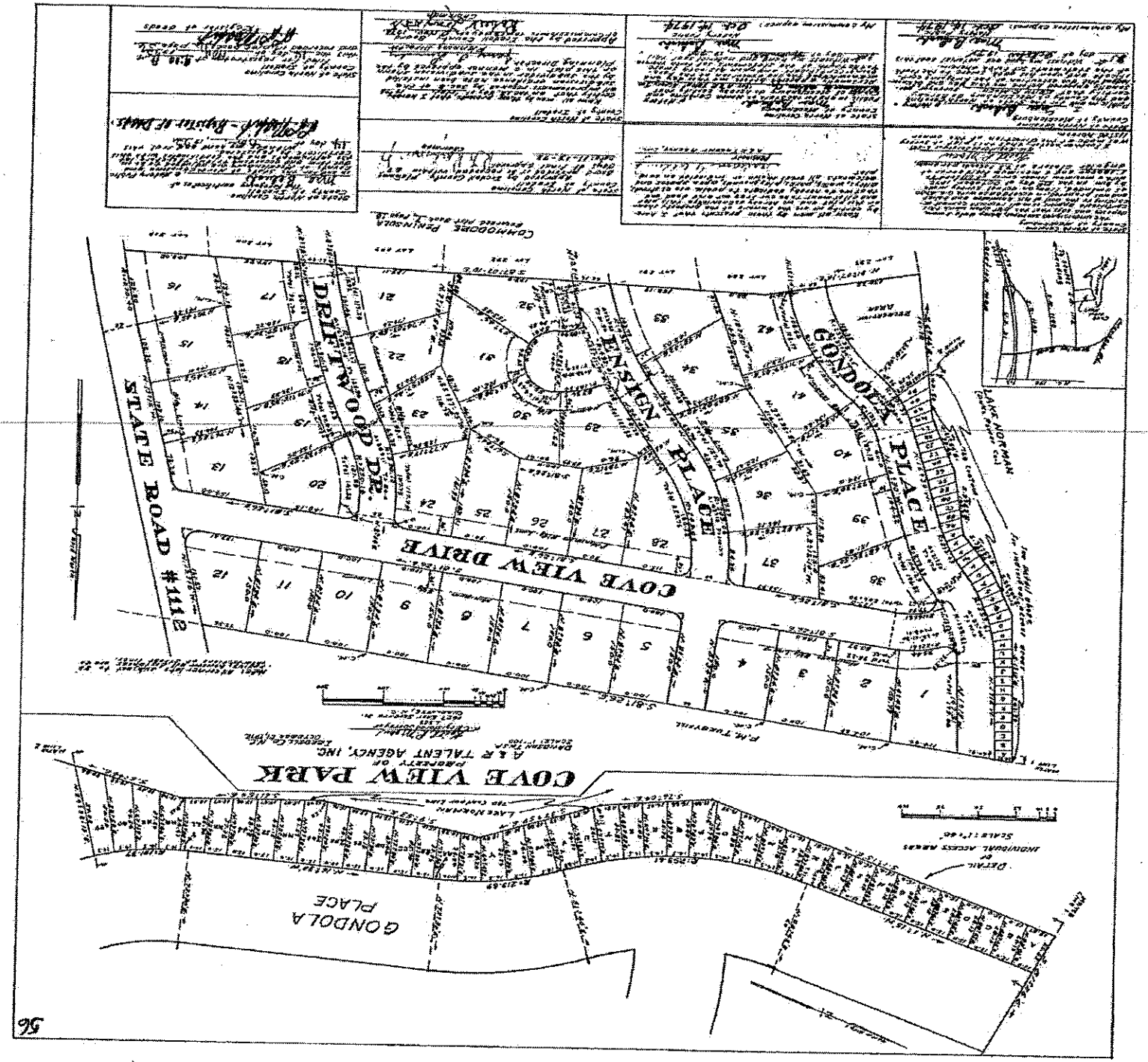
See Attached

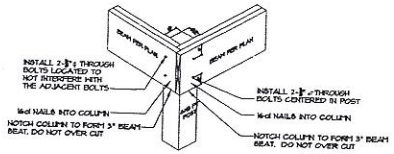
Signature: _____ 5/7/20

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



Approved
7/16/20
MD


STATE ROAD #112
DRIFTWOOD DR.
COVE VIEW DRIVE
ELSIEN PLACE
GONDOLA PLACE
COVE VIEW PARK
GONDOLA PLACE
LAKE NORMAN



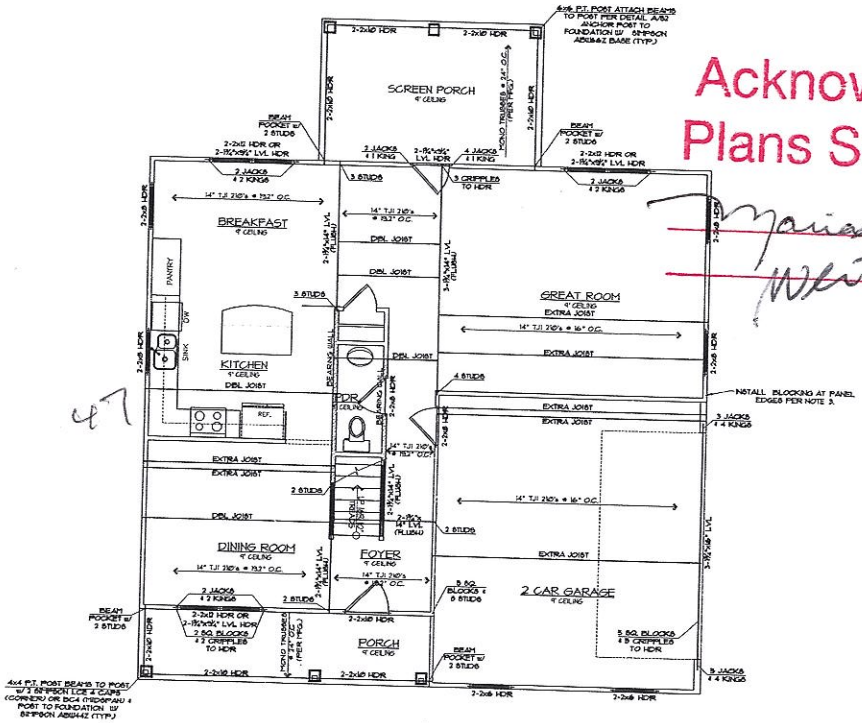
A POST TOP/BEAM CONNECTION DETAIL

Note: Floor plan will be flipped so garage is on other side.

Acknowledgement of Plans Submittal ONLY!

Date 8/17/2020

Date 08/18/2020



47

40

TYPICAL HANGERS FOR JOIST & BEAMS

MEMBERS	HANGER	HANGER
2x6	LUS26	JUS26
2x8	LUS28	JUS28
2x10	LUS210	JUS210
2-2x8	HUS28-2	JUS28-2
2-2x10	HUS210-2	JUS210-2
2-2x12	LUS212-2	JUS212-2
3-2x8	LUS28-3	JUS28-3
3-2x10	LUS210-3	JUS210-3
3-2x12	HU212-3 TIM.	JUS212-3 TIM.
2-1¾"x9¼" LVL	HGUS410	THDH410
2-1¾"x9½" LVL	HGUS410	THDH410
2-1¾"x11⅞" LVL	HGUS410	THDH410
2-1¾"x14" LVL	HGUS414	THDH414
2-1¾"x16" LVL	HGUS414	THDH414
2-1¾"x18" LVL	HGUS414	THDH414
2-1¾"x20" LVL	HGUS414	THDH414
3-1¾"x9¼" LVL	HGUS5.50/10	THDH4610
3-1¾"x9½" LVL	HGUS5.50/10	THDH4610
3-1¾"x11⅞" LVL	HGUS5.50/12	THDH4612
3-1¾"x14" LVL	HGUS5.50/14	THDH4614
3-1¾"x16" LVL	HGUS5.50/14	THDH4614
3-1¾"x18" LVL	HGUS5.50/14	THDH4614
3-1¾"x24" LVL	HGUS5.50/14	THDH4614
4-1¾"x9¼" LVL	HGUS7.25/10	THDH7210
4-1¾"x9½" LVL	HGUS7.25/10	THDH7210
4-1¾"x11⅞" LVL	HGUS7.25/12	THDH7212
4-1¾"x14" LVL	HGUS7.25/12	THDH7212
4-1¾"x16" LVL	HGUS7.25/14	THDH7214
4-1¾"x18" LVL	HGUS7.25/14	THDH7214
4-1¾"x24" LVL	HGUS7.25/14	THDH7214

NOTE: ALL HANGERS BY SIMPSON STRONG TIE CO., INC. (BRAND - NAME EQUIVALENTS ACCEPTABLE)

SHEATHING NOTES:

1. THE LATERAL BRACING REQUIREMENTS FOR THIS PLAN HAVE BEEN ACCOUNTED FOR UTILIZING AN ENGINEERED DESIGN AS PERMITTED IN SECTION R602.10.3 OF THE 2018 NCRC.
2. ALL PERIMETER WALLS ARE TO BE FULLY SHEATHED WITH A MINIMUM ½" OSB AND ATTACHED TO THE WALL FRAMING STUDS WITH 8d (2½"x0.131") NAILS @ 6" O.C. SPACING AT PANEL EDGES AND 12" O.C. SPACING AT INTERMEDIATE SUPPORTS.
3. INSTALL BLOCKING ALONG OSB PANEL EDGES. FASTEN PANEL EDGES AT BLOCKING @ 3" O.C. AND @ 6" O.C. AT INTERMEDIATE FRAMING WHEN LESS THAN 24" BUT GREATER THAN 12" OF WALL IS SHEATHED.
4. SHEATH ALL GABLE END WALLS WITH ½" OSB.

FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

SEAL FOR STRUCTURAL ONLY
NC Certificate of Licensure P-0713

PROJECT:
Wei Xin Residence
W&L Investment Properties
132 Ensign Place
Mooresville, NC 28117

Southern dynamic
Engineering and Design, PLLC
P.O. BOX 87, Waxhaw, NC 28173
Ph: (704) 900-4596 Fax: (704) 749-9439
Email: Scott@SouthernDynamic.com
Website: SouthernDynamic.com

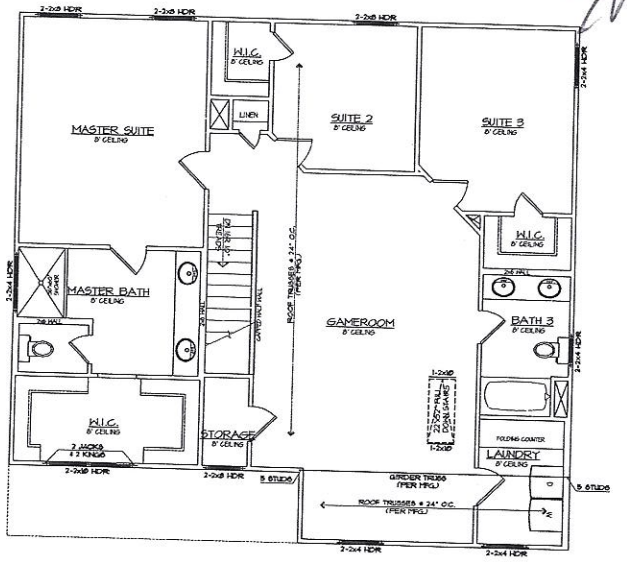
DRAWN BY: KATHY HARRIS
DATE: MARCH 5, 2019
REVISIONS:

SHEET
S2

Acknowledgement of
Plans Submittal ONLY!

Maria Dotson Date 5/17/2020

Date 08/18/20



SECOND FLOOR PLAN
SCALE 1/4" = 1'-0"

TYPICAL HANGERS
FOR JOIST & BEAMS

MEMBERS	HANGER	HANGER
2x8	LUS28	JUS28
2x10	LUS210	JUS210
2x12	LUS212	JUS212
2-2x8	HUS28-2	JUS28-2
2-2x10	HUS210-2	JUS210-2
2-2x12	HUS212-2	JUS212-2
3-2x8	LUS28-3	JUS28-3
3-2x10	LUS210-3	JUS210-3
3-2x12	HU212-3 MIN.	JUS212-3 MIN.
2-1¾"x9¼" LVL	HUS1.81/10	THD14.88/16
2-1¾"x9½" LVL	HUS1.81/10	THD14.88/16
2-1¾"x11¼" LVL	HUS1.81/12	THD14.88/12
2-1¾"x11⅞" LVL	HUS1.81/12	THD14.88/12
2-1¾"x14" LVL	HUS1.81/14	THD14.88/14
2-1¾"x16" LVL	HUS1.81/14	THD14.88/14
2-1¾"x18" LVL	HUS1.81/14	THD14.88/14
2-1¾"x24" LVL	HUS1.81/14	THD14.88/14
3-1¾"x9½" LVL	HUS1.81/10	THD14.88/16
3-1¾"x9¼" LVL	HUS1.81/10/10	THD14.88/16
3-1¾"x11¼" LVL	HUS1.81/10/12	THD14.88/16
3-1¾"x11⅞" LVL	HUS1.81/12/12	THD14.88/12
3-1¾"x14" LVL	HUS1.81/12/14	THD14.88/14
3-1¾"x16" LVL	HUS1.81/14/14	THD14.88/14
3-1¾"x18" LVL	HUS1.81/14/14	THD14.88/14
3-1¾"x24" LVL	HUS1.81/14/14	THD14.88/14
4-1¾"x9½" LVL	HUS1.81/12/10	THD14.88/16
4-1¾"x9¼" LVL	HUS1.81/12/10	THD14.88/16
4-1¾"x11¼" LVL	HUS1.81/12/12	THD14.88/12
4-1¾"x11⅞" LVL	HUS1.81/12/12	THD14.88/12
4-1¾"x14" LVL	HUS1.81/12/14	THD14.88/14
4-1¾"x16" LVL	HUS1.81/12/14	THD14.88/14
4-1¾"x18" LVL	HUS1.81/12/14	THD14.88/14

NOTE: ALL HANGERS BY SIMPSON STRONG TIE CO., INC. (BRAND - NAME EQUIVALENTS ACCEPTABLE)

SHEATHING NOTES:

1. THE LATERAL BRACING REQUIREMENTS FOR THIS PLAN HAVE BEEN ACCOUNTED FOR UTILIZING AN ENGINEERED DESIGN AS PERMITTED IN SECTION R602.10.9 OF THE 2018 NCRC.
2. ALL PERIMETER WALLS ARE TO BE FULLY SHEATHED WITH A MINIMUM ½" OSB AND ATTACHED TO THE WALL FRAMING STUDS WITH 8d (2½"x0.131") NAILS @ 6" O/C SPACING AT PANEL EDGES AND 12" O/C SPACING AT INTERMEDIATE SUPPORTS.
3. INSTALL BLOCKING ALONG OSB PANEL EDGES. FASTEN PANEL EDGES AT BLOCKING @ 3" O/C AND @ 6" O/C AT INTERMEDIATE FRAMING WHEN LESS THAN 50% BUT GREATER THAN 25% OF WALL IS SHEATHED.
4. SHEATH ALL GABLE END WALLS WITH ½" OSB.

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Wei Xin Residence
W&L Investment Properties
132 Ensign Place
Mooresville, NC 28117

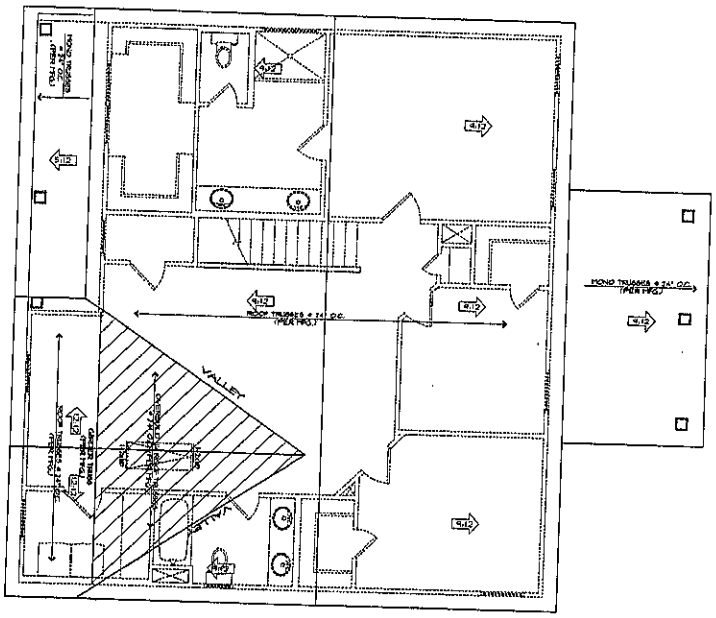
Southern dynamic
Engineering and Design, PLLC
P.O. BOX 87, Waxhaw, NC 28173
Ph: (704) 900-4596 Fax: (704) 749-9439
Email: Scott@SouthernDynamic.com
Website: SouthernDynamic.com

DRAWN BY: KATHY HARRIS

DATE: MARCH 5, 2019

REVISIONS:

SHEET
S3



ROOF PLAN
SCALE 1/4" = 1'-0"

NOTES

1) ALL ROOF PITCHES PER PLAN
2) DEN. = RIDER BELOW
3) RFA. = RAFTER BEARING
4) OVERHANG ALL SHADED AREAS
5) USE SIMPSON H2SA HURRICANE TIES AT EVERY RAFTER AT SHADED AREAS
6) RAFTERS BEARING ON WALL
7) RADIUS RAFTERS (IF APPLICABLE)
8) PROVIDE ATTIC ACCESS OPENING (MIN. 22" X 30") AT LOCATION SHOWN ON PLAN
9) PROVIDED FOR ASPHALT SHINGLES

SHEET
S4

ISSUES

DATE
MARCH 5, 2018

DRAWN BY
KATHY MASSEI

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Engineering and Design, PLLC
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PROJECT:

Wei Xin Residence

W&L Investment Properties
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IREDELL COUNTY · NC

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

APPLICATION NUMBER
308734
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4636515546.000	118 DRIFTWOOD DR	Iredell County

Owner Information	Applicant Information
Name: JI XINJIA	Name: same
Address:	Address:
Phone:	Phone:

Use Requested	Zone Code
Single Family Dwelling	RR

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.36	35	35	15	15	WSIV-CA Catawba/Lake Norman	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.

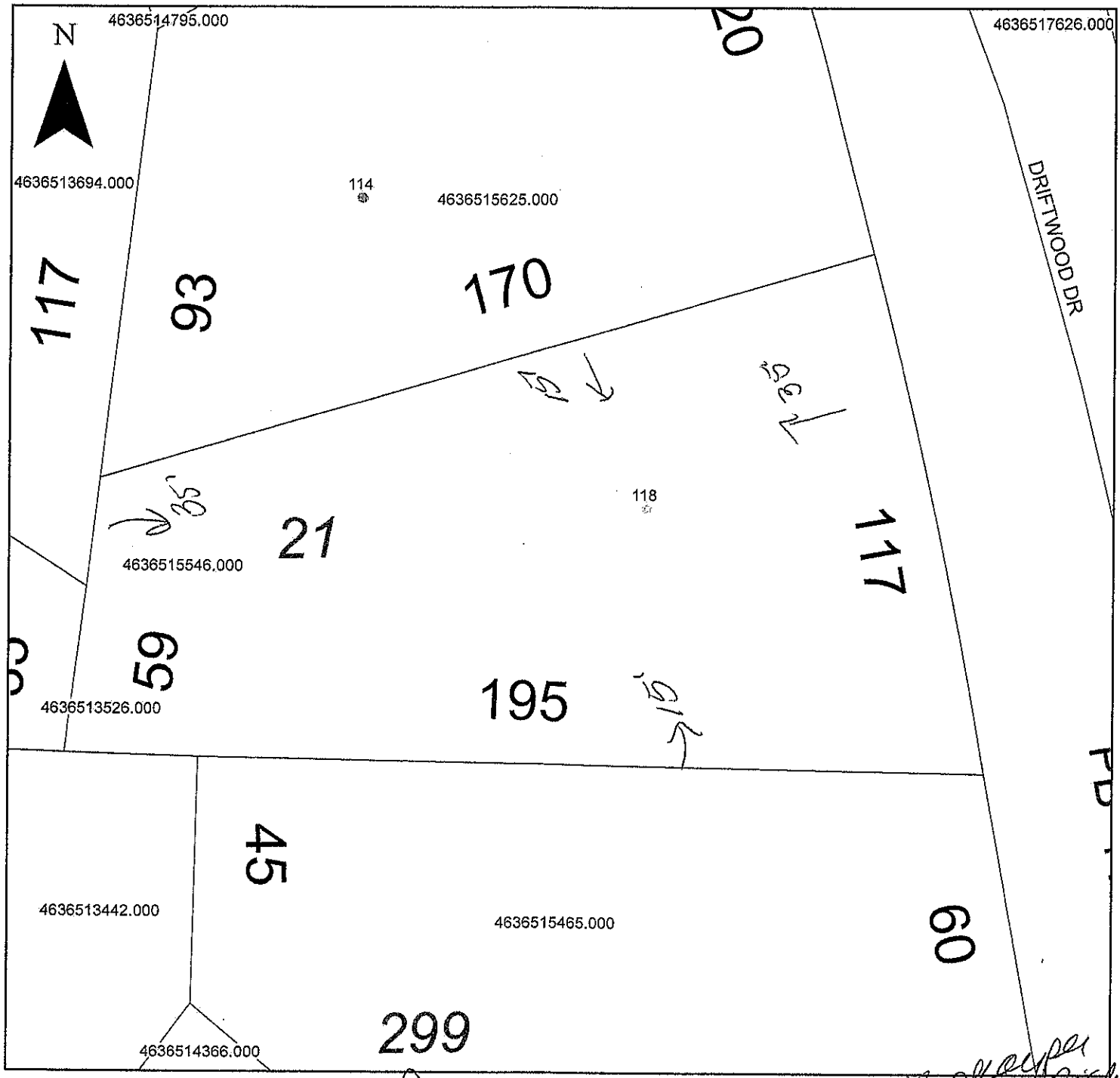
Signature of Owner/Contractor

Date: 07/02/2020

Permit Number	308734

TOTAL FEES:	$77.25

ZONING DISCLAIMER



Property Address 118 Driftwood

RK overlay Rock
IVCA Cat N

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. Applicant further acknowledges that the 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.

Applicant

07/02/2020
Date