IREDELL COUNTY HEALTH DEPARTMENT

KW Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 246508

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

PIN # 4646-77-3006

APPLICANT/OWNER: Loi Tan Ngo APPLICANT ADDRESS: 204 Hickory Hill Rd. Mooresville, NC 28117

SITE ADDRESS: 204 Hickory Hill Rd. PHONE: ALT. PHONE

SITE DIRECTIONS: BSR towards LKN → L on Silver Hook → R on S Gibbs Rd → @ end (intersection w/ Hickory Hill) SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Gibbs Cove SECTION: — LOT # 16+17 LOT AREA: 1.374 acres DESIGN FLOW: 480GPD L.T.A.R.: 0.275

Septic Tank	1000 (gal)	STB	Infiltrator	Date	1060	☒ New System ☐ Repair ☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank	1000 (gal)	PT	Infiltrator	Date	1060	System Description: LP-PPBFS (Horizontal) 50% Reduction		☐ Business	No. Persons 8	☒ Private
Pump Make	Gould	Model	5HP	Serial #	PE 5114	Repair System Description: Drip Irrigation		☐ Other	No. Employees	☐ Public
# Nitrification Fields	1	# Lines	3	Linear Ft	290	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab	☒ Crawl Space	☐ Community
Trench Width	36"	Trench Bottom Depth(Low side)	20"	Gravel Depth	—	☐ GRAVITY ☒ PRESSURE		☐ Basement w/ plumbing	☐ Basement w/o plumbing	

Comments / Conditions: Recommend setting floats to dose system ≈ 170 gallons per pumping event. See attached plot plan from Athens - Furman Inc. dated 1-17-19 (approved 9/10/19)

* No stockpiling of equipment/soil/materials atop primary or repair septic areas *

INITIAL SITE SKETCH

See attached plans from Michael Athanas + Associates.

Dated: 6/7/2019 Michael Athanas LSS # 1252

AS BUILT SKETCH

	Date	Initials
Drain Lines Checked	1/23/2020	
Tanks Checked	1/23/2020	
Pressure Manifold or Valve Box Checked	6/4/2020	SR
~~Pressure Head Set~~	6/4/2020	SR
Electrical Checked	6/4/2020	SR
Floats Set	6/4/2020	SR
Alarm Checked	6/4/2020	SR
Maintenance Contract (Y) N	Cole CWA	
Comments: Supply Checked 1/23/2020	1/23/2020	

6/4/2020: Breakers ok
- 6" tether for on/off float 170 gallons/dose
- 2' of pressure ok

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

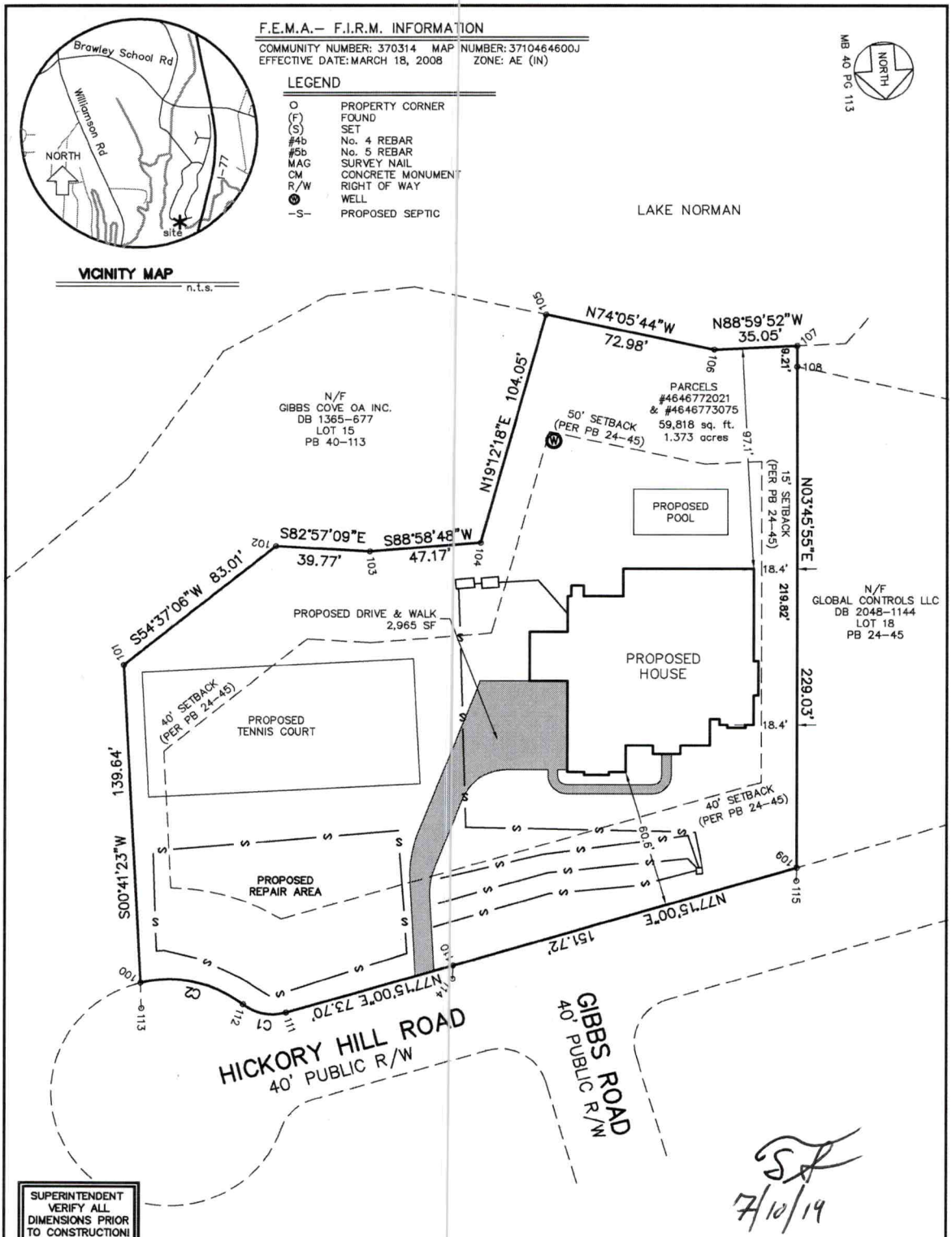
☐ IMPROVEMENT PERMIT *with plat valid without expiration.* ☒ IMPROVEMENT PERMIT *with site plan valid for 60 mcs.* ☒ AUTHORIZATION TO CONSTRUCT *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Loi Tan Ngo Date: 7/19/19 Installed by: Sensibility Septic

IMPROVEMENT PERMIT by: Tom Shuck Date: 6/20/19 OPERATION PERMIT by: Tom Shuck Date: 6/4/2020

AUTHORIZATION TO CONSTRUCT by: Tom Shuck Date: 7/3/19 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 inspector to confirm your inspection time.



SUPERINTENDENT VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION!

7/10/19

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES

CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	20.00	19.26	18.52	N 75°10'30" W	55°09'42"
C2	50.00	45.96	44.36	S 73°56'11" E	52°40'03"

REV.	DATE		
REV. 2	07.08.19	BSH	NEW SEPTIC PLAN
REV. 1	06.13.19	BSH	MOVED HOUSE & NEW SEPTIC PLAN

THIS PROPERTY MAY BE SUBJECT TO EASEMENTS AND/OR RIGHTS-OF-WAY EITHER RECORDED OR IMPLIED.

0" 1" SCALE: 1" = 50 '

Lucas–Forman Incorporated
Land Surveying
Planning & Engineering
N.C. License C–1215
4000 Stuart Andrew Boulevard
Charlotte, North Carolina 28217
P.O. Box 11386 28220–1386
(704) 527–6626 Fax 527–9640

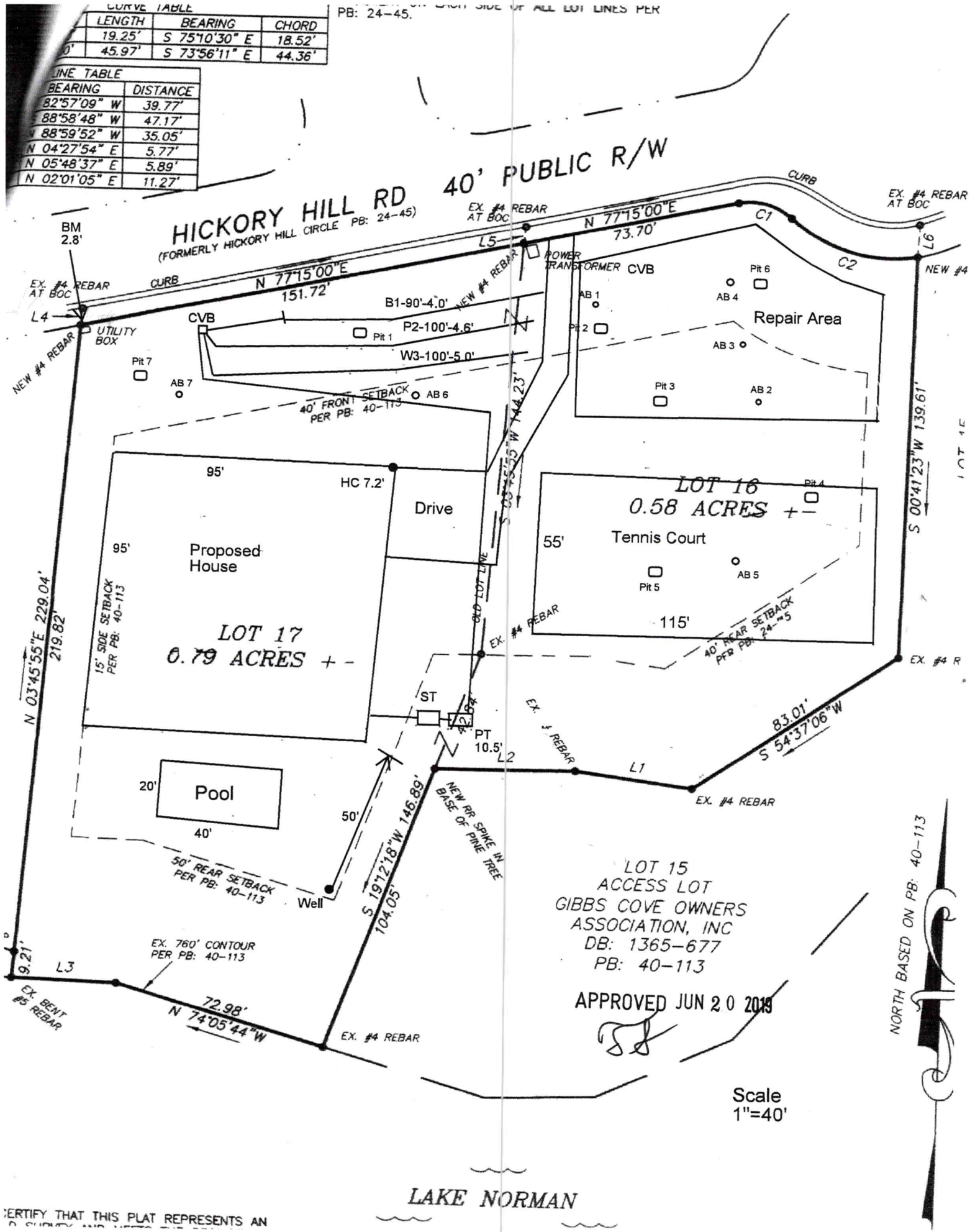
PLOT PLAN
of
204 HICKORY HILL ROAD
DAVIDSON TOWNSHIP, IREDELL COUNTY, NC

LOT 16 & 17 BLOCK -- MAPBOOK 40 PAGE 113
SUBDIVISION GIBBS COVE SUBDIVISION
DEED REFERENCE:
for
SHEA HOMES

REVIEWED J.T. EASTERWOOD | DATE: 01/17/2019 | REV.
DRAWN: B.S. HENSLEY | JOB# CUS0271

SEAL

ENVELOPE:



ERTIFY THAT THIS PLAT REPRESENTS AN

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 204 Hickory Hill Rd, Gibbs Cove Lot 16/17

House Footprint: See attached
Building Setbacks: 35' front/rear, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms/Daily Flow: 4/480 GPD
Proposed LTAR: 0.275 GPD/FT^2 (initial), 0.125 GPD/FT^2 (repair)
Proposed System Type: Horizontal PPBPS
Proposed Repair System Type: Drip Irrigation
Distribution: Low Pressure-CVB
Flow per Orifice: 0.59 GPM
Orifice Size: 3/16"
System Flow: 39.5 GPM
Dosing Volume: 241.2 gallons
Pump Run Time: 6.1 minutes
Elevation Head: 11.5'
Friction Head: 6.9'
Pressure Head: 2'
Total Dynamic Head: 20.4'
Supply Line Length: 220' 0f 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 22" maximum



Line	Design Length	# of Panels	Actual Length	Elevation
Blue 1	90'	21	135'	4.0'
Pink 2	100'	23	180'	4.6'
White 3	100'	23	180'	5.0'

Initial System: 290'
Pump Tank: 10.5'
Repair System: 3840+ FT^2
House Corner: 7.2'
Benchmark: 2.8'

Comments:

APPROVED JUN 20 2019

PROPERTY ID #: 4646772021___
COUNTY: _IREDELL____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Loi Ngo_____ APPLICATION DATE_____
ADDRESS: 11332 Fountaingrove Dr, Charlotte, NC 28262_____ DATE EVALUATED: _____
PROPOSED FACILITY: __4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: ____1.37 AC_____
LOCATION OF SITE: 204 Hickory Hill Rd, Gibbs Cove Lot 16/17_____ PROPERTY RECORDED: _____
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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
PIT 1	LS 4%	0-8	Br CL WSBK	FR SS SP SXP	N/A	48"	F-C SAP PS	N/A	PS 0.3
		8-32	R C SBK	FR SS SP SXP					
		32-48	R CL WSBK	FR SS SP SXP					
		48-65	VER L SAP M	FR SS SP SXP					
PIT 2	LS 4%	0-10	FILL		N/A	48"	F-C SAP PS	N/A	PS 0.3
		10-18	Br CL WSBK	FR SS SP SXP					
		18-48	R C SBK	FR SS SP SXP					
		48-55	VER L SAP M	FR SS SP SXP					
PIT 3	LS 6%	0-25	BR CL WSBK	FR SS SP SXP	YE CHR 2 @ 36"	36"	N/A	N/A	PS 0.25
		25-36	R C WSBK	FR SS SP SXP					
PIT 4	LS 6%	0-10	Br SCL WSBK	FR SS SP SXP	YB CHR 2 @ 23"	23"	N/A	N/A	PS 0.125 DRIP
		10-23	R C ABK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	810 FT^2	3840+ FT^2
System Type(s)	PPBPS	DRIP
Site LTAR	0.3	0.125

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: Tom Shuck 4/18/19

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: 4646772021____
DATE OF EVALUATION: _____
COUNTY: ___IREDELL___

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/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
AB 3	LS 5%	0-10	Br CL WSBK	FR SS SP SXP	YB CHR 2@ 20"	20"	N/A	N/A	DRIP 0.125
		10-20	R C SBK	FR SS SP SXP					
AB 4	LS 4%	0-5	Br CL WSBK	FR SS SP SXP	YB CHR 2 @ 34"	34"	N/A	N/A	PS 0.25
		5-34	R C SBK	FR SS SP SXP					
AB 5	LS 6%	0-5	Br CL WSBK	FR SS SP SXP	YB CHR 2 @ 23"	23"	N/A	N/A	DRIP 0.125
		5-23	R C SBK	FR SS SP SXP					
AB 6	LS 5%	0-24	Br CL WSBK	FR SS SP SXP	N/A	48"	N/A	N/A	PS 0.3
		24-36	R C SBK	FR SS SP SXP					
		36-48	R CL WSBK	FR SS SP SXP					
AB 7	LS 5%	0-16	Br CL WSBK	FR SS SP SXP	N/A	48"	N/A	N/A	PS 0.3
		16-30	R C SBK	FR SS SP SXP					
		30-48	R CL WSBK	FR SS SP SXP					

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: 4646772021_____
DATE OF EVALUATION: _____
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
PIT 5	LS 6%	0-10	Br CL WSBK	FR SS SP SXP	YB CHR2 @ 36"	36"	N/A	N/A	PS 0.25
		10-36	R C WSBK	FR SS SP SXP					
PIT 6	LS 4%	0-10	Br CL WSBK	FR SS SP SXP	YB CHR 2 @ 27"	27"	N/A	N/A	PS 0.25
		10-27	R C SBK	FR SS SP SXP					
PIT 7	LS 4%	0-12	Br CL WSBK	FR SS SP SXP	N/A	58"	N/A	N/A	PS 0.3
		12-41	R C SBK	FR SS SP SXP					
		41-58	R CL WSBK	FR SS SP SXP					
AB 1	LS 4%	0-12	FILL		N/A	48"	F-C SAP	N/A	PS 0.3
		12-30	R C SBK	FR SS SP SXP					
		30-48	R CL WSBK	FR SS SP SXP					
AB 2	LS 5%	0-12	Br CL WSBK	FR SS SP SXP	YB CHR 2 @ 23"	23"	N/A	N/A	DRIP 0.125
		12-23	R C SBK	FR SS SP SXP					

COMMENTS:_____

* SEPTIC *

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

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: SHEA CUSTOM Address: 8008 CORPORATE CENTER Zip 68244
Applicant Email: STAN@CORNERSTONE3P.COM Phone: 704.301.3229 Alt. Phone: x
Owner Name: Loi TAN NGO Address: 11332 FOUNTAIN GROVE DR. Zip: 28262
Owner Email: dtNGO3@NCSU.EDU Phone: 980-228-0774 Alt. Phone: x

Property Information:

Street Address: 204 HICKORY HILL ROAD
Subdivision Name: GIBBS COVE Section/Phase: _____ Lot Number: 16/17
Driving Directions: SOUTH on BRAWLEY SCHOOL ROAD

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: 4
Maximum Number of Occupants: 8
( ) Swimming Pool
( ) Other Addition/Structure: _____
Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

CHECK FOUNDATION TYPE
(✓) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

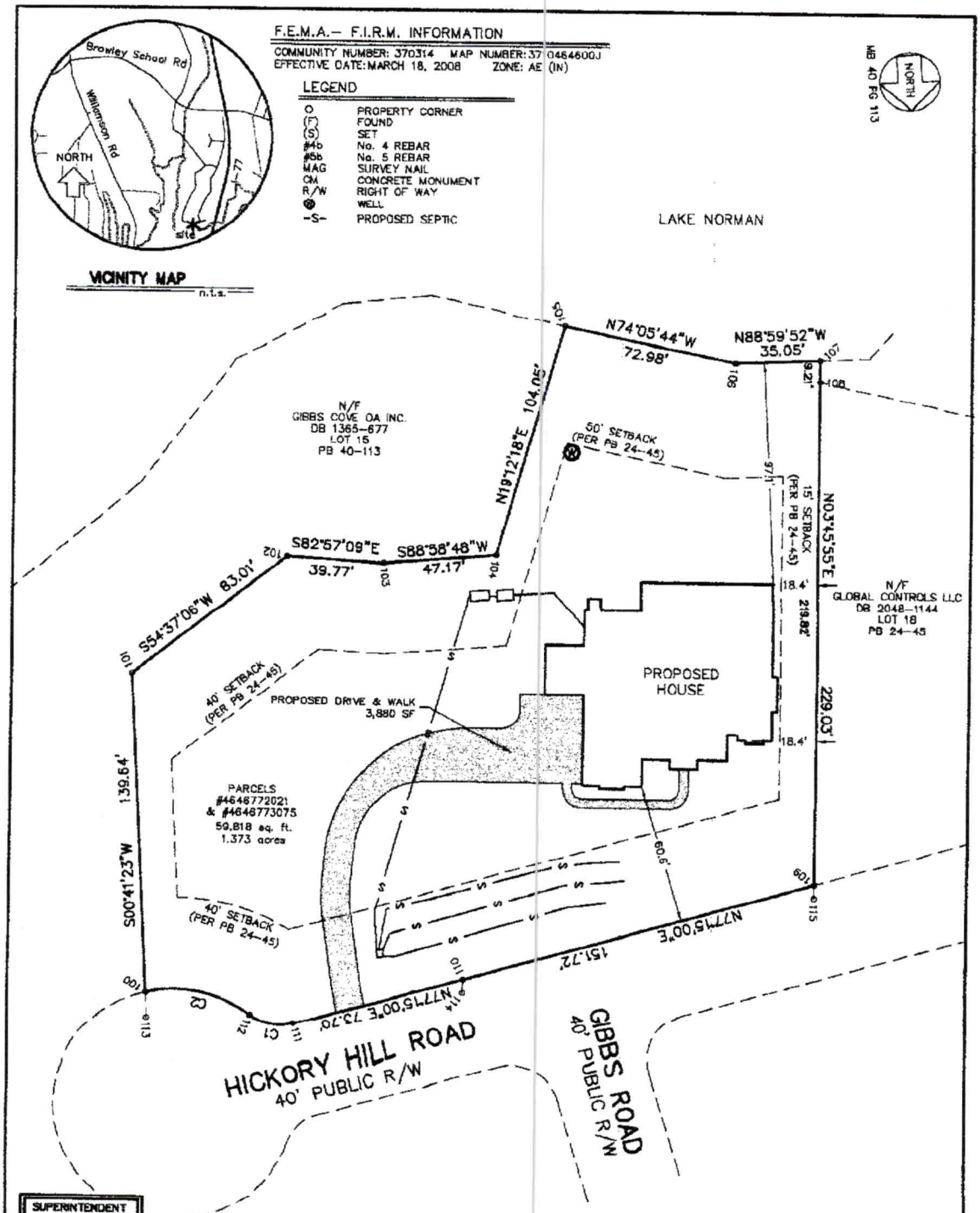
Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____
( ) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____
( ) No Preference ( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

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: Stan W. Presley 6/29/19
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE



SUPERINTENDENT VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION!

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES

CURVE TABLE					
CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA
C1	20.00	19.26	18.52	N 75°10'30" W	55°09'42"
C2	50.00	45.96	44.36	S 73°56'11" E	52°40'03"

THIS PROPERTY MAY BE SUBJECT TO EASEMENTS AND/OR RIGHTS-OF-WAY EITHER RECORDED OR IMPLIED.

REV. 1	08.13.19	BSH	MOVED HOUSE & NEW SEPTIC PLAN

SCALE: 1" = 50 '

Lucas–Forman Incorporated
Land Surveying
Planning & Engineering
N.C. License C-1215
4000 Stuart Andrew Boulevard
Charlotte, North Carolina 28217
P.O. Box 11386 28220–1386
(704) 527–6626 Fax 527–9640

PLOT PLAN
of
204 HICKORY HILL ROAD
DAVIDSON TOWNSHIP, IREDELL COUNTY, NC

LOT 18 & 17 BLOCK — MAPBOOK 40 PAGE 113
SUBDIVISION GIBBS COVE SUBDIVISION
DEED REFERENCE:
for
SHEA HOMES

REVIEWED J.T. EASTERWOOD	DATE: 01/17/2019	REV.
DRAWN: B.S. HENSLEY	JOB: CUS0271	

ENVELOPE:

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

1. *** APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

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.

2. I, Lori Tan Noe, am the legal owner(s) of the property located at 204 Hickory Hill Road, identified as PIN (Parcel Identification Number) 4646 77 20 21 COMBINED 2 LOTS 4646 77 30 75 located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SHEA / STAN PRESSLEY, 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.

Lori Tan Noe
Signature of Owner(s)

6/29/19
Date

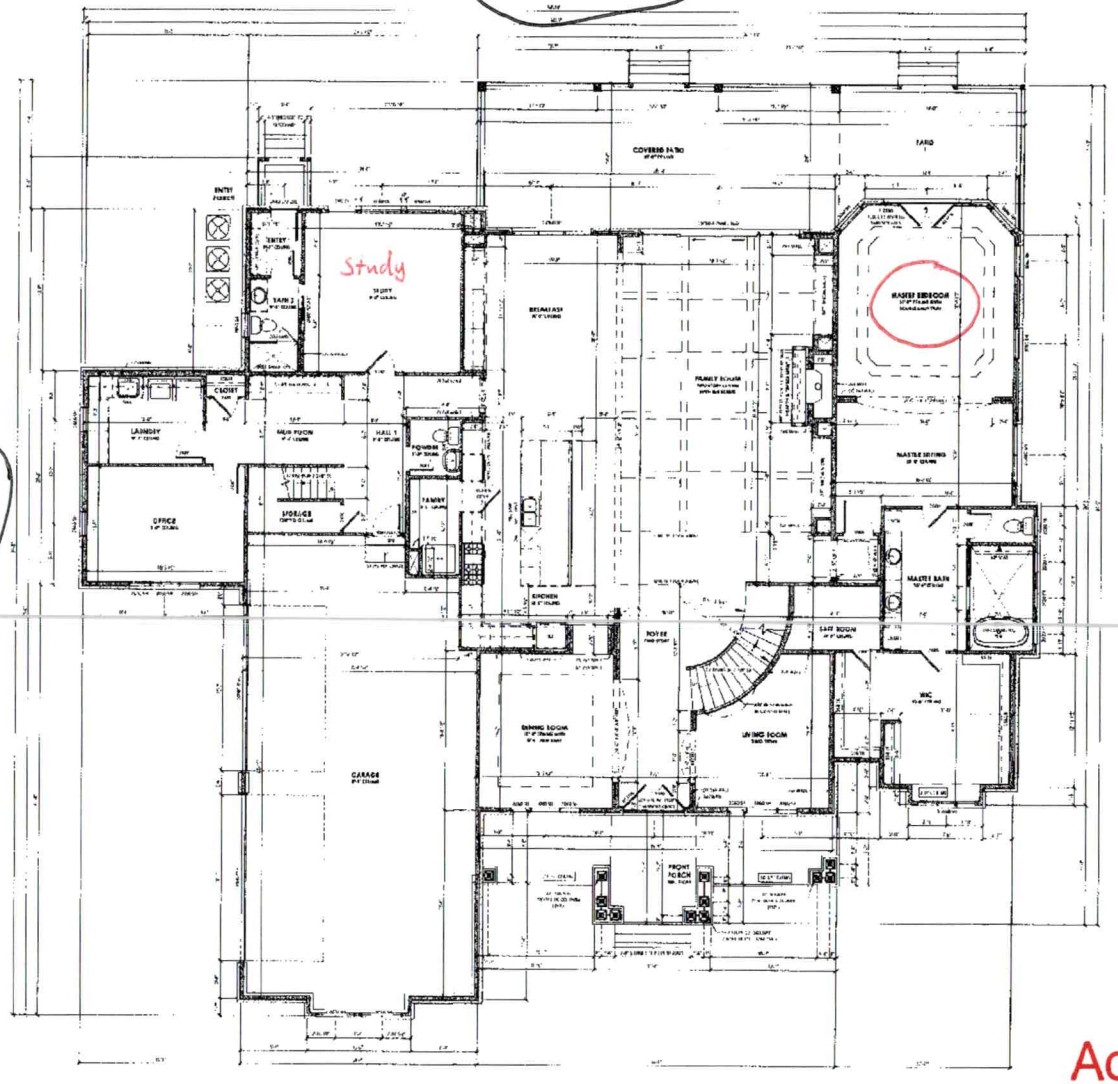
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

94-10

90-5

81-2



1 1ST FLOOR PLAN

FLOOR PLAN NOTES

1. DESIGN LOADS ARE AS DELAILED AS PER:
   A. FOOTINGS ARE BASED ON SOIL BEARING CAPACITY OF 3000 PSF
   B. MAIN LIVING FLOOR LIVE LOAD = 40 PSF
   C. UPPER FLOOR LIVE LOAD = 30 PSF
      EXCEPT BEDROOMS = 30 PSF
   D. CEILING JOISTS UNDER ATTIC WITH LESS THAN 6'-0" CLEAR HEIGHT = 10 PSF
   E. CEILING JOISTS UNDER ATTIC w/ OVER 6'-0" CLEAR HEIGHT BUT w/o PERMANENT STAIR = 20 PSF
   F. ROOF LIVE LOAD (COMP. SHINGLES) = 20 PSF
      ROOF LIVE LOAD (TILE) = 30 PSF
   G. SNOW LOAD WHERE APPLICABLE = 30 PSF
   H. WIND SPEED IS 90 MPH EQUIVALENT TO 142 MPH
2. DIMENSIONS ON FOUNDATION PLANS ARE FROM FACE OF MASONRY, UNLESS NOTED OTHERWISE
3. DIMENSIONS FROM TOP OF FOOTING TO TOP OF GARAGE FLOOR SLAB MAY VARY ACCORDING TO FIELD GRADE CONDITIONS, U.N.O.
4. DETAILS TAKE PRECEDENCE OVER PLANS AND ELEVATIONS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALED DRAWINGS
5. WATER AND MOISTURE PROTECTION
   A. ALL FLASHING TO MEET THE REQUIREMENTS OF R703.8 OF THE 2014 NCRC
   B. ALL DISSIMILAR EXTERIOR SURFACE PENETRATIONS WITH POTENTIAL EXPOSURE TO WEATHER SHALL BE FLASHED AND/OR CAULKED AS PER CODE AND/OR INDUSTRY RECOMMENDED WATER CONSTRUCTION TECHNIQUES
   C. ALL FLASHING SHALL BE TURNED OUT AT A LOWER EDGE TO DIRECT WATER OUT OF STRUCTURE
   D. ALL FLASHING SHALL BE COPPER, ALUMINUM OR PVC UNLESS NOTED OTHERWISE. ALUMINUM FLASHING SHALL NOT BE USED IN CONTACT WITH CEMENTITIOUS MATERIAL, EXCEPT AT CHIMNEY FLASHING, AND SHALL NOT BE USED IN DECK CONSTRUCTION
   E. IF ANY TYPE OF LAP SIDING OTHER THAN VINYL IS USED, PROVIDE A SEALED WATERPROOF BARRIER BEHIND ANY VERTICAL OR SILL TRIM WITH BARRIER TURNED OUT AT FIRST SIDING COURSE BELOW TRIM
   F. IF ANY TYPE OF LAP SIDING OTHER THAN VINYL IS USED, WRAP ALL CORNERS W/ A SEALED WATERPROOF BARRIER EXTENDING 12" HORIZONTALLY BEYOND VERTICAL JOINTS AND TURNED OUT OVER FLASHING OR FLASHING AT BOTTOM OF JOINT
6. WINDOWS AND DOORS
   A. WINDOW SIZES SHOWN ARE NOMINAL FRAME SIZES, UNLESS NOTED OR SPECIFIED OTHERWISE, AND MAY VARY SLIGHTLY ACCORDING TO MANUFACTURER
   B. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING WINDOWS THAT MEET EGRESS AND TEMPERED GLASS REQUIREMENTS
   C. ALL HUMAN DOORS, SLIDING GLASS DOORS AND SHOWER ENCLOSURES SHALL BE TEMPERED
   D. IF ANY PART OF THE CLEAR OPENING OF THE OPERABLE PORTION OF A WINDOW IS LOCATED MORE THAN 72" ABOVE THE EXTERIOR GRADE, THEN THE LOWEST PART OF THE CLEAR OPENING MUST BE AT LEAST 24" ABOVE THE FLOOR OF THE ROOM IN WHICH IT IS LOCATED OR BE EQUIPPED WITH A WINDOW FALL PROTECTION DEVICE PER R312 AND ASTM F2090
7. GARAGE SEPARATION
   A. WALL BETWEEN HOUSE AND GARAGE SHALL BE A MINIMUM OF 1/2" GYPSUM BOARD. CEILING BETWEEN GARAGE AND ALL HABITABLE ROOMS ABOVE GARAGE SHALL BE NOT LESS THAN SHEET TYPE 'X' GYPSUM BOARD AT CEILING AND 1/2" GYPSUM BOARD ON WALLS
   B. DOORS FROM HOUSE TO GARAGE SHALL BE 1-3/8" THICK SOLID WOOD OR 20 MIN. RATED
8. GUARDRAILS OPENING LIMITATIONS AND CLIMBING BARRIERS
   A. REQUIRED GUARDRAILS (MIN. HEIGHT 36") ON OPEN SIDES OF STAIRWAYS, RAISED FLOOR AREAS, BALCONIES AND PORCHES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES WHICH DO NOT ALLOW PASSAGE OF AN OBJECT 4" OR MORE IN DIAMETER. HORIZONTAL SPACING BETWEEN THE VERTICAL MEMBERS IN REQUIRED GUARDRAILS SHALL NOT ALLOW PASSAGE OF AN OBJECT 4" OR MORE IN DIAMETER
      EXCEPTION: THE TRIANGULAR OPENINGS FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY MAY BE OF SUCH SIZE THAT A 6" SPHERE CAN NOT PASS THROUGH
   B. STEPS WITH OPEN RISERS SHALL HAVE AN OPENING BETWEEN TREADS THAT DOES NOT ALLOW A 4" DIAMETER SPHERE TO PASS THROUGH

Acknowledgement of Plans Submittal ONLY!

Date 7/19

Date 7/3/19

Shea CUSTOM

ADDRESS: 204 Hickory Hill Road, Mooresville, NC 28117

CLIENT: David Ngo

SUBDIVISION:

LOT NO:

JOB NO: CUS0271-151AD-LH

SERIES: 150 Series

PLAN: 151 Grayson

SHEET: FIRST FLOOR PLAN

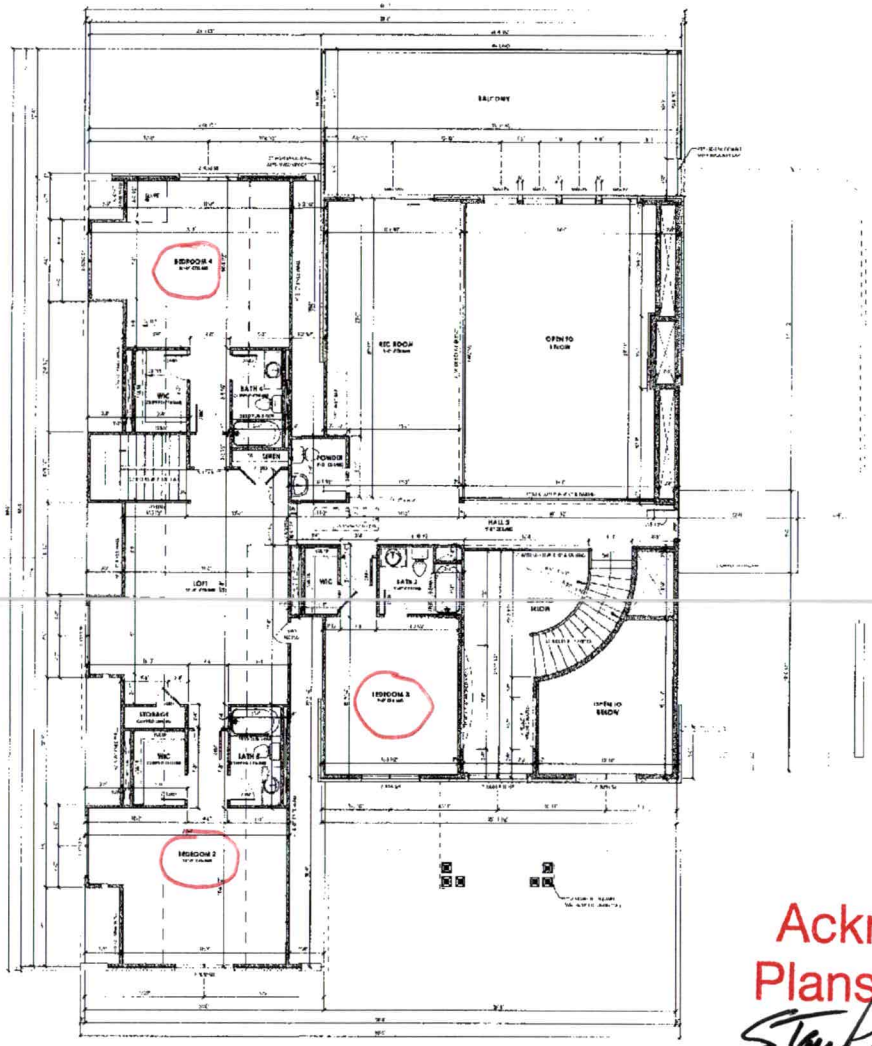
ISSUE DATE: 05/21/2019

DRAWN BY: SKC

SHEET NUMBER: 2.10

PRINTED: 7/2/2019 4:33:56 PM

* 204 Hickory *



1 2ND FLOOR PLAN

FLOOR PLAN NOTES

1. DESIGN LOADS ARE ALL DEAD LOADS PLUS
   A. FOOTINGS ARE BASED ON SOIL BEARING CAPACITY OF 2000 PSF
   B. MAIN LIVING FLOOR LIVE LOAD = 40 PSF
   C. UPPER FLOOR LIVE LOAD = 30 PSF
   EXCEPT BALCONIES = 60 PSF
   D. CEILING JOISTS UNDER ATTIC w/ LESS THAN 6'-0" CLEAR HEIGHT 10 PSF
   E. CEILING JOISTS UNDER ATTIC w/ OVER 6'-0" CLEAR HEIGHT BUT w/o PERMANENT STAIR = 20 PSF
   F. ROOF DEAD LOAD (STAIR, SKYLIGHTS) = 20 PSF
   ROOF LIVE LOAD (TILE) 20 PSF
   G. SNOW LOAD WHERE APPLICABLE = 30 PSF
   H. WIND SPEED IS 90 MPH EQUIVALENT TO = 72 MPH
2. DIMENSIONS ON FOUNDATION PLAN ARE FOR FACE OF MASONRY OR MASONRY LINE UNLESS NOTED OTHERWISE
3. DIMENSIONS FROM 1ST FLOOR TO TOP OF GARAGE FLOOR SLAB MAY VARY ACCORDING TO THE GARAGE CONDITIONS, U.N.O.
4. DETAILS ARE REFERENCED OVER PLANS AND ELEVATIONS. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALED DRAWINGS
5. WATER AND MOISTURE PROTECTION
   A. ALL FLASHING TO MEET THE REQUIREMENTS OF R703.8 OF THE 2015 NCRC
   B. ALL BUILDING EXTERIOR SURFACE PENETRATIONS WITH POTENTIAL EXPOSURE TO WEATHER SHALL BE FLASHED AND/OR CAULKED AS PER CODE AND/OR INDUSTRY RECOGNIZED POPULAR CONSTRUCTION TECHNIQUES
   C. ALL FLASHING SHALL BE TURNED OUT AT A PROPER EDGE TO DIRECT WATER OUT OF STRUCTURE
   D. ALL FLASHING SHALL BE COPPER, ALUMINUM OR PVC UNLESS NOTED OTHERWISE. ALUMINUM FLASHING SHALL NOT BE USED IN CONTACT WITH FOUNDATION MATERIAL, ENDGRAIN COUNTER FLASHING AND SHALL NOT BE USED IN MASONRY CONSTRUCTION
   E. IF ANY TYPE OF LAP SIDING OTHER THAN VINYL IS USED, PROVIDE A SEALED WATERPROOF BARRIER BEHIND ANY VERTICAL OR SLOPED TRIM WITH BARRIER TURNED OUT AT FIRST WORKABLE COURSE BELOW TRIM
   F. IF ANY TYPE OF LAP SIDING OTHER THAN VINYL IS USED, WRAP AT CORNERS w/ 4 SEALED WATERPROOF BARRIER EXTENDING 12" HORIZONTALLY BEYOND VERTICAL JOINTS AND TURNED OUT, LEAVE CLADDING UNFASTENED AT BOTTOM OF JOINT
6. WINDOWS AND DOORS
   A. WINDOW SIZES SHOWN ARE NOMINAL MASONRY SIZES, UNLESS NOTED OR SPECIFIED OTHERWISE, AND MAY VARY SLIGHTLY ACCORDING TO MANUFACTURER
   B. CONTRACTOR SHALL BE RESPONSIBLE FOR SPECIFYING WINDOWS THAT MEET EGRESS AND TEMPERED GLASS REQUIREMENTS
   C. ALL FRENCH DOORS, SOLID SLAB GLASS DOORS AND SHOWER ENCLOSURES SHALL BE TEMPERED
   D. IF ANY PART OF THE CLEAR OPENING OF AN OPERABLE PORTION OF A WINDOW IS LOCATED MORE THAN 72" ABOVE THE EXTERIOR GRADE, THEN THE LOWEST PART OF THE CLEAR OPENING MUST BE AT LEAST 24" ABOVE THE FLOOR OF THE ROOM IN WHICH IT IS LOCATED OR BE EQUIPPED WITH A WINDOW FALL PREVENTION DEVICE MEETING ASTM F 2090
7. GARAGE SEPARATION
   A. WALL BETWEEN HOUSE AND GARAGE SHALL BE A MINIMUM OF 1/2" GYPSUM BOARD, CEILING BE THEN GARAGE AND ALL HABITABLE ROOMS ABOVE GARAGE SHALL BE NOT LESS THAN 5/8" TYPE 'X' GYPSUM BOARD AT CEILING AND 1/2" GYPSUM BOARD ON WALLS
   B. DOORS FROM HOUSE TO GARAGE SHALL BE 1-3/8" THICK SOLID WOOD OR AS MIN. RATED
8. GUARDRAIL OPENING LIMITATIONS AND STEPS WITH RISERS
   A. REQUIRED GUARDRAILS (MIN. HEIGHT 36") FOR OPEN SIDES ON STAIRWAYS, RAISED FLOOR AREAS, BALCONIES AND PORCHES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL CLOSURES WHICH DO NOT ALLOW PASSAGE OF AN OBJECT 4" OR MORE IN DIAMETER
   EXCEPTION: THE TRIANGULAR OPENING FORMED BY THE RISER, TREAD AND BOTTOM RAIL OF A GUARD AT THE OPEN SIDE OF A STAIRWAY MAY BE OF SUCH SIZE THAT A 6" SPHERE CAN NOT PASS THROUGH
   B. SEATS WITH OPEN RISERS SHALL HAVE AN OPENING BETWEEN TREADS THAT DOES NOT ALLOW A 4" DIAMETER SPHERE TO PASS THROUGH

Acknowledgement of Plans Submittal ONLY!

Stan Pruett Date 7/19

Tom Church Date 7/3/19

Shea CUSTOM

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SUBDIVISION:

LOT NO.:

JOB NO.: CUS0271-151AD-LH

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SERIES: 150 Series

SHEET: SECOND FLOOR PLAN

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