ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # AP239831

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

PIN # 4654-76-3598

APPLICANT/OWNER: Ray Development LLC | APPLICANT ADDRESS: 4542 Ivy Run Ln Denver NC 28037

SITE ADDRESS: 145 Manorly Ln Mooresville NC 28115 | PHONE: 980-297-2787 | ALT. PHONE:

SITE DIRECTIONS: NC 3N to Ronkistler Farm Rd, Rt on Rocky River Rd, Lon Shearer Rd Rt on Presbyterian Rd, Lon [illegible] Farm Rd, Lon Kenmanor Dr, Lot on L | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Davidson Downs | SECTION: 4 | LOT # 148 | LOT AREA: 0.93 acres | DESIGN FLOW: 480 GPD | L.T.A.R.: .3

Septic Tank	1000	(gal)	STB	760	Date	4/10/21	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	4	Water Supply	
Pump Tank	—	(gal)	PT	—	Date	—	System Description:			Gravity 25% Reduction	☐ Business	No. Persons	8	☒ Private	
Pump Make	—	Model		—	Serial #	—	Repair System Description:			LPP BPS	☐ Other	No. Employees		☐ Public	
# Nitrification Fields	1	# Lines			Linear Ft.		Maintenance Agreement Required:		☐ YES	☒ NO	☐ Slab	☒ Crawl Space		☐ Community	
Trench Width	36"	Trench Bottom Depth(Low side)		24"/27"	Gravel Depth	—	☒ GRAVITY		☐ PRESSURE		☐ Basement w/plumbing			☐ Basement w/o plumbing	

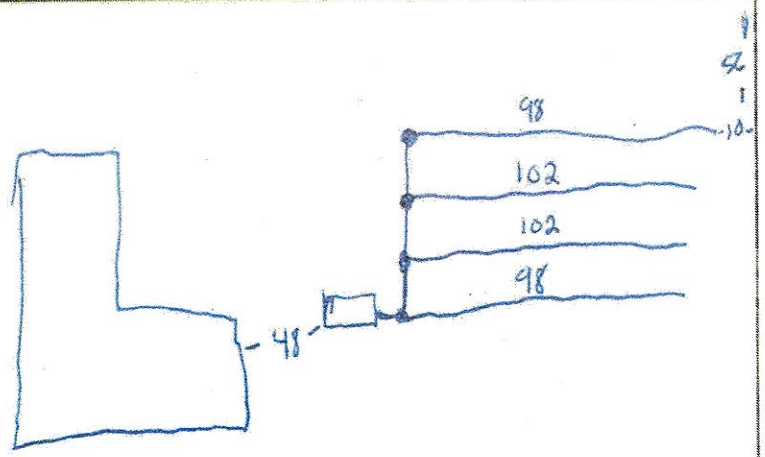
Comments / Conditions: Install lines on contour. DO NOT Drive on, store material or manipulate drain field in any way. Any part of septic system MUST be 15' off of water's edge of pool.

INITIAL SITE SKETCH

See Attached and Approved site plan By Michael Athanas and Associates Dated 1/4/2021 PJB

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.



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 site plan valid for 60 mos.* ☒ **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: [signature] Date: 1-8-21 | Installed by: Rawan Septic

IMPROVEMENT PERMIT by: Patrick J Bagett Date: 1/4/2021 | OPERATION PERMIT by: Burkett C. Wick Date: 6/29/21

AUTHORIZATION TO CONSTRUCT by: Patrick J Bagett Date: 1/4/2021 | Existing System Inspected by: Date:

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

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887
9/18/2020

APPROVED JAN 04 2021
PJB

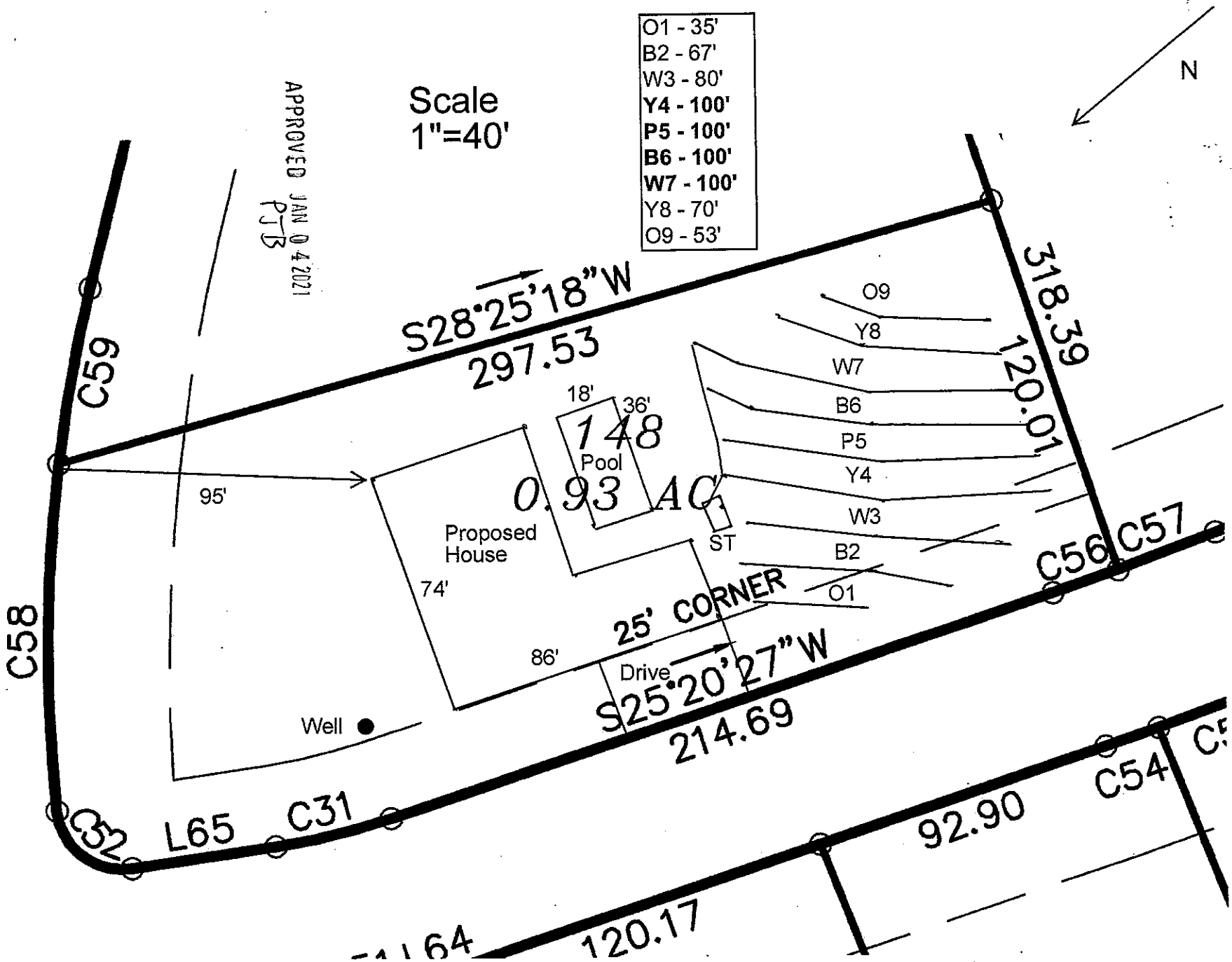
Reference: Data Sheet for I45 Manorly Ln, Davidson Downs Lot 148
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Private well
Number of Bedrooms/Daily Flow: 4/480 GPD
Predetermined LTAR: 0.3 GPD/FT^2
Proposed System Type: 25% Reduction
Proposed Repair System Type: PPBPS
Distribution: Gravity-End cap/Drop boxes
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 24-36"

Line	Design Length	Actual Length
Orange 1		35'
Blue 2		65'
White 3		80'
Yellow 4	**100'**	**100'**
Pink 5	**100'**	**100'**
Blue 6	**100'**	**100'**
White 7	**100'**	**100'**
Yellow 8		70'
Orange 9		53'

Initial System: 400' **Repair System:** 303'

Comments:
House box flagged in red.




Scale
1"=40'
O1 - 35'
B2 - 67'
W3 - 80'
Y4 - 100'
P5 - 100'
B6 - 100'
W7 - 100'
Y8 - 70'
O9 - 53'
N
APPROVED JAN 04 2021
PJB
S28°25'18"W
297.53
318.39
120.01
C59
C58
C57
C56
C54
C31
C32
L65
O9
Y8
W7
B6
P5
Y4
W3
B2
O1
18'
36'
148
Pool
0.93 AC
95'
Proposed
House
74'
86'
ST
25' CORNER
Drive
S25°20'27"W
214.69
92.90
120.17
Well

APPROVED NOV 1 4 2018
KW

PROPERTY ID #: _____
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Ray Development
APPLICATION DATE_____
ADDRESS: Denver, NC
DATE EVALUATED: 9/2018
PROPOSED FACILITY: 5 bdrm
PROPOSED DESIGN FLOW (.1949): 600 GPD
PROPERTY SIZE: 0.67 AC
LOCATION OF SITE: Davidson Downs Lot 148
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) .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
1 ✓	LS 6%	0-20	Br CL WSBK	FR SS SP SXP	Mn @40"	48"	N/A	N/A	PS 0.3
		20-48	R C ABK	FR SS SP SXP					
2 ✓	LS 6%	0-10	RBr SCL WSBK	FR SS SP SXP	N/A	56"	SAP Incl @ 48"	N/A	PS 0.3
		10-34	R C SBK	FR SS SP SXP					
		34-56	R CL WSBK	FR SS SP SXP					
3	LS 6%	0-10	RBr SCL WSBK	FR SS SP SXP	N/A	54"	N/A	N/A	PS 0.3
		10-36	R C SBK	FR SS SP SXP					
		36-54	R CL WSBK	FR SS SP SXP					
4	LS 6%	0-9	Br SCL WSBK	FR SS SP SXP	N/A	50"	N/A	N/A	PS 0.3
		9-28	R C SBK	FR SS SP SXP					
		28-50	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1500FT^2	1569FT^2
System Type(s)	25% Reduction	25% Reduction
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: MA&A
OTHER(S) PRESENT: _____

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: Davidson Downs 148
DATE OF EVALUATION: _____
COUNTY: Iredell

APPROVED NOV 1 4 2018
KW

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
PIT 5	LS 6%	0-12	RBr SCL WSBK	FR SS SP SXP	Litho colors	56"	N/A	N/A	PS 0.3
		12-44	R C ABK	FR SS SP SXP					
		44-56	R CL WSBK	FR SS SP SXP					
AB 1	LS 6%	0-12	Br CL WSBK	FR SS SP SXP	N/A	48"	N/A	N/A	PS 0.3
		12-48	R C SBK	FR SS SP SXP					

COMMENTS: _____

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP-239831 AP-312420 fees owed $320.00

Application For:
(X) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
~~X~~ Septic Improvement Permit (X) 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 ( ) Custom Site Plan, scaled no more than 1 inch = 60 feet

Place an (X) beside whichever is submitted if applicable

Applicant Information: (PRINT CLEARLY)

Applicant Name: RAY DEVELOPMENT Address: 4542 IVY RUN LN, DENVER Zip: 28037

Applicant Email: CHRISMOZELEY@YAHOO.COM Phone: 980-297-2787 Alt. Phone: _____

Owner Name: SAME Address: _____ Zip: _____

Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 145 MANORLY LN, MOORESVILLE

Subdivision Name: DAVIDSON DOWNES Section/Phase: IV Lot Number: 148

Driving Directions: 115 SOUTH, L ON PRESBYTERIAN, R ON SINK FARM, R ON BUCKINGHAM, R ON MANORLY, LAST LOT ON LEFT

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: 4
Maximum Number of Occupants: _____
( ) 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: _____

(X) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: *(you may rank in order of preference)* Year existing system installed: _____

( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) 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: _____ 11-5-20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

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, _____, am the legal owner(s) of the property located at _____, identified as PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) _____, _____, 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

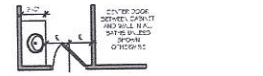
I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

_____ 11-5-20
Signature of Owner(s) Date

Mooresville - Environmental Health
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

Acknowledgment Of
Plans Submittal ONL
Date
Date 1/4/2021



TYP. DOOR FRAMING
SCALE: 1/4" = 1'-0"

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

NOTES:
1 - THE LATERAL BRACING REQUIREMENTS OF THIS PLAN HAVE BEEN ACCOUNTED FOR UTILIZING AN ENGINEERED DESIGN AS PERMITTED IN R602.10.9 OF THE 2018 IRC.

2 - ALL EXTERIOR WALLS ARE TO BE FULLY SHEATHED WITH A MINIMUM 7/16" O.S.B. AND ATTACHED TO THE WALL FRAMING STUDS WITH 8d (2.5"X0.113") COMMON NAILS @ 6" O.C. SPACING AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.

3 - 15"X... BLOCKING ALONG O.S.B. PANEL EDGES. "ASTEN" PANEL EDGES A" BLOCKING @ 3" O.C. AND 4" O.C. AT INTERMEDIATE FRAMING WHEN USING SHEATHING PANELS OF WIDTH LESS THAN 25% OF WALL IS SHEATHED.

4 - SHEATHE ALL GABLE END WALLS WITH 7/16" O.S.B.

5 - INSTALL 2X6 BLOCKING BETWEEN ROOF TRUSSES AT HEEL AT GREATER THAN 9 1/4"

Southern Dynamic Engineering and Design, PLLC
P.O. Box 87
Waxhaw, NC 28173
NC Cert. of Licensure P-0713
Seal for Structural Only

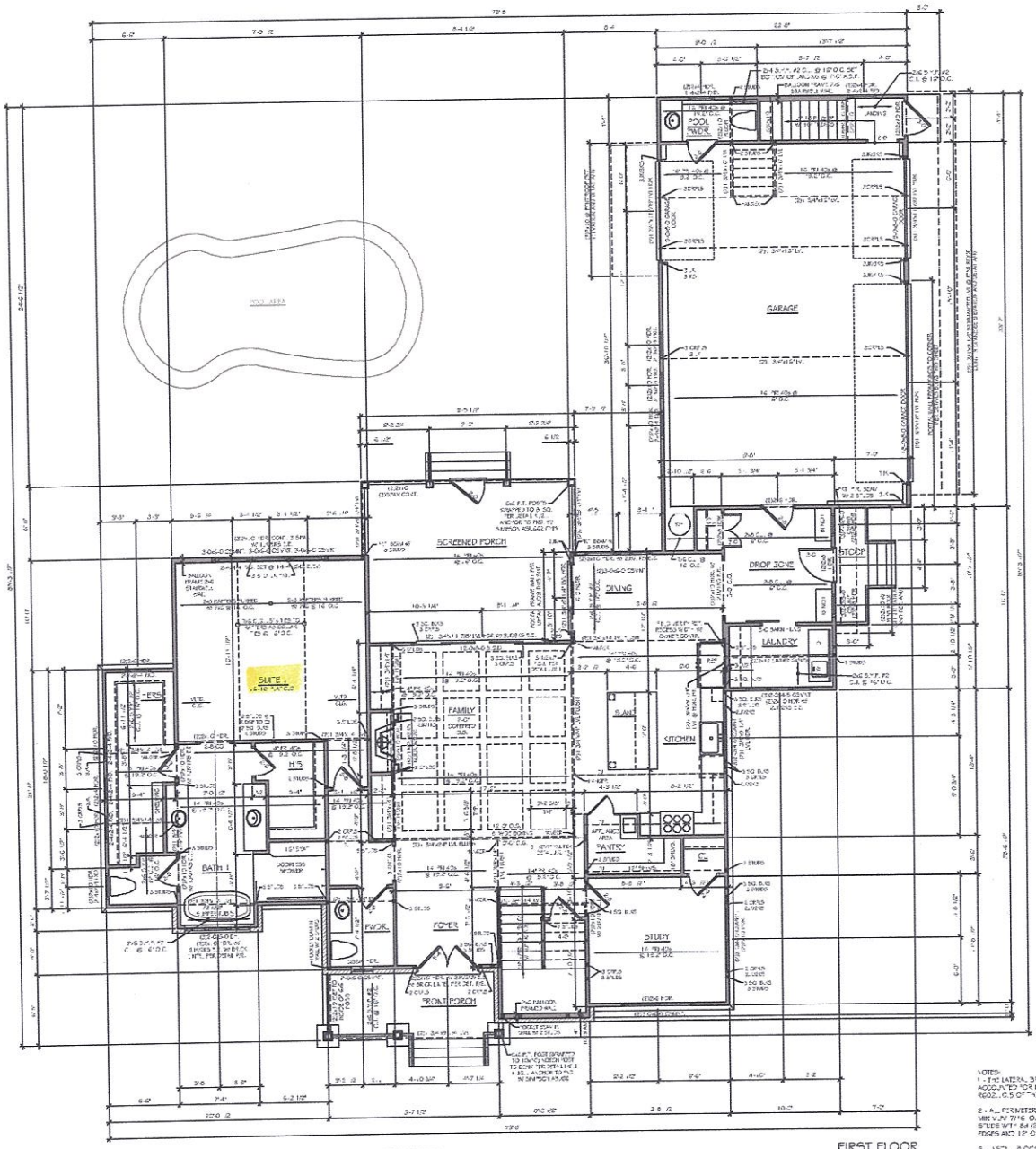
-DO NOT REPRODUCE WITHOUT PERMISSION-
© CAROLINA SUSTAINABLE RESIDENTIAL DESIGN, LLC 2020. ALL RIGHTS RESERVED.

Carolina Sustainable Residential Design, LLC

THE MORSE FAMILY
SECOND FLOOR PLAN

DESIGNER: S. ESS, NCBR
DATE: 00/ 0000
LATEST REVISION:

3.1
SHEET NO.

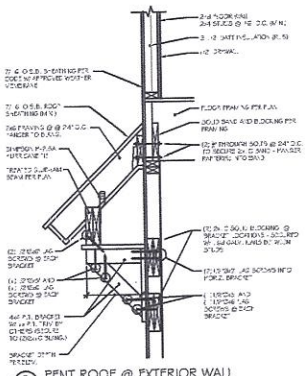


FIRST FLOOR
SCALE: 1/4" = 1'-0"

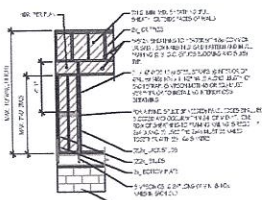
NOTE: ALL DOORS 1'-5" FLOOR AREA TO BE 8'-0" UNLESS NOTED OTHERWISE

SQUARE FOOTAGES	
FIRST FLOOR	2,021
SECOND FLOOR	1,499
TOTAL HEATED	3,520
FUTURE "O" AREA	542
GARAGE	557
FRONT PORCH	97
SCREENED PORCH	277

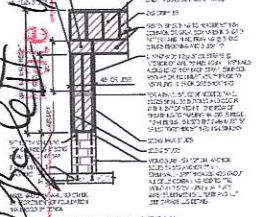
SQUARE FOOTAGES W/ BRICK	
FIRST FLOOR	2,101
SECOND FLOOR	499
TOTAL HEATED	3,600



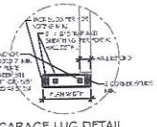
PENT ROOF @ EXTERIOR WALL
CROSS SECTION
SCALE: 1" = 1'-0"



PORTAL WALL DETAIL OVER CRAWL
SCALE: 3/4" = 1'-0"



PORTAL WALL DETAIL
SCALE: 3/4" = 1'-0"



GARAGE LUG DETAIL
SCALE: 1/2" = 1'-0"

TYPICAL HANGERS FOR JOISTS AND BEAMS	
W NUMBERS	HANGERS
2x6	LUS26
2x8	LUS28
2x10	LUS210
(2)2x8	HUS28-2
(2)2x10	HUS210-2
(2)2x12	HUS212-2
(3)2x8	LUS28-3
(3)2x10	LUS210-3
(3)2x12	HUS212-3
(4)2x8	HUS28-4
(4)2x10	HUS210-4
(4)2x12	HUS212-4
(5)2x8	HUS28-5
(5)2x10	HUS210-5
(5)2x12	HUS212-5
(6)2x8	HUS28-6
(6)2x10	HUS210-6
(6)2x12	HUS212-6
(7)2x8	HUS28-7
(7)2x10	HUS210-7
(7)2x12	HUS212-7
(8)2x8	HUS28-8
(8)2x10	HUS210-8
(8)2x12	HUS212-8

NOTES:
1 - THE LATERAL BRACING REQUIREMENTS OF THIS PLAN HAVE BEEN ACCOUNTED FOR UTILIZING AN ENGINEERED DESIGN AS PERMITTED IN R602.10.5 OF THE 2018 IRC.

2 - ALL PERIMETER WALLS ARE TO BE FULLY SHEATHED WITH A MIN 7/16" O.S.B. AND ATTACHED TO THE WALL FRAMING STUDS WITH 8d (2.5"X0.113") RING SHANK NAILS @ 6" O.C. SPACING AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.

3 - USE ALL BLOCKING ALONG O.S.B. PANEL EDGES. PASTED PANEL EDGES AT BLOCKING @ 3" O.C. AND AT 6" O.C. AT INTERMEDIATE FRAMING WHEN LESS THAN 50% BUT GREATER THAN 25% OF WALL IS SHEATHED.

4 - 5-EACH ALL GABLE END WALLS W 7/16" O.S.B.

5 - INSTALL KEEL BLOCKING BETWEEN ROOF TRUSSES IN HEEL - T GREATER THAN 9 1/4"

Southern Dynamic Engineering and Design, PLLC
P.O. Box 87
Waxhaw, NC 28173
NC Cert. of Licensure P-0713
Seal for Structural Only

Approved as Noted
Plans Examiner
Date 4/12/2021

-DO NOT REPRODUCE WITHOUT PERMISSION-
© CAROLINA SUSTAINABLE RESIDENTIAL DESIGN, LLC 2020. ALL RIGHTS RESERVED.

THE MORSE FAMILY
FIRST FLOOR PLAN

DRAWN BY: S. ESS, NCBR
DATE: 1.02.2020
JUNE 21 REVISION

3
SHEET NO.

IREDELL COUNTY

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

APPLICATION NUMBER
239831
Issue Date: 10/26/2018

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4654754930.000	145 MANORLY LANE, MOORESVILLE, NC 28115	

Owner Information		Applicant Information	
Owner:	RAY DEVELOPMENT LLC	Applicant:	MICHAEL ATHANAS & ASSO
Address:	4643 MARINER LANE	Address:	561 ENNIS RD
	DENVER, NC 28037		WEDDINGTON, NC 28173
Phone:		Phone:	704-576-3887

Use Requested	Zone Code

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
	35.00	35.00	15.00	25.00	NOT	X

Remarks:

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.

Applicant: _____ Date: _____

Permit Number	156933	TOTAL FEES:	$ 77.25