ICHD–ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # 241007

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

PIN # 4654760347

APPLICANT/OWNER: Matt Johnson | APPLICANT ADDRESS: 2685 Queens Dr Lincolnton NC 28092

SITE ADDRESS: 124 Castleview Ln. Mooresville NC 28115 | PHONE: 704-309-5484 | ALT. PHONE

SITE DIRECTIONS: Shearers Rd to Ron Presbyterian, L on Sink Farm Ron Manorly, L on Castleview, Lot on R | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Davidson Downes | SECTION: 4 | LOT # 162 | LOT AREA: .62 acres | DESIGN FLOW: 480GPD | L.T.A.R.: .3 (.3 Repair)

Septic Tank	1000 (gal)	STB 794	Date 8-6-2019	☒ New System ☐ Repair ☐ Expansion	System Type: I II III (IV) V VI	☒ Residence	No. Bedrooms 4
Pump Tank	1000 (gal)	PT 283	Date 3-26-2020	System Description: LPPPBPS (offsite)		☐ Business	No. Persons 8
Pump Make	Gravlos	Model WE1512HH	Serial # L1942115	Repair System Description: LPPPBPS (offsite)		☐ Other	No. Employees
# Nitrification Fields	1	# Lines 3@90'	Linear Ft 270'	Maintenance Agreement Required: ☒ YES ☐ NO		☐ Slab	☒ Crawl Space
Trench Width	24" min	Trench Bottom Depth(Low side)	30"/32" high	Gravel Depth —	☐ GRAVITY ☒ PRESSURE	☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Lines must be installed on contour. All property Lines must be marked during time of installation. Do not drive on Store material, or manipulate Drainfield in any way, Reccomend Fencing off Drainfield area to prevent any manipulation.

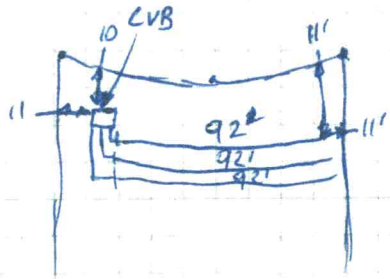
INITIAL SITE SKETCH

See Attached Site plan By Michale Athanas and Associates with updated house Location site plan Approved 12/17/19 PJB

AS BUILT SKETCH

FILTERS NOT CHECKED IN TANKS
BOTH TANKS NEEDS RISERS
~~TANKS~~, DRAINLINE & CVB CHECKED

SEE ATTACHED



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

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

Owner / Applicant Signature: [signature] Date: 12/20/19 Installed by:

IMPROVEMENT PERMIT by: Patrick J Bagle III Date: 12/17/19 OPERATION PERMIT by: Maria Dotson Date: 7/16/20

AUTHORIZATION TO CONSTRUCT by: Patrick J Bagle III Date: 12/17/19 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.

Comments:
The purpose of this evaluation is to permit the property for a 4-bedroom residence.

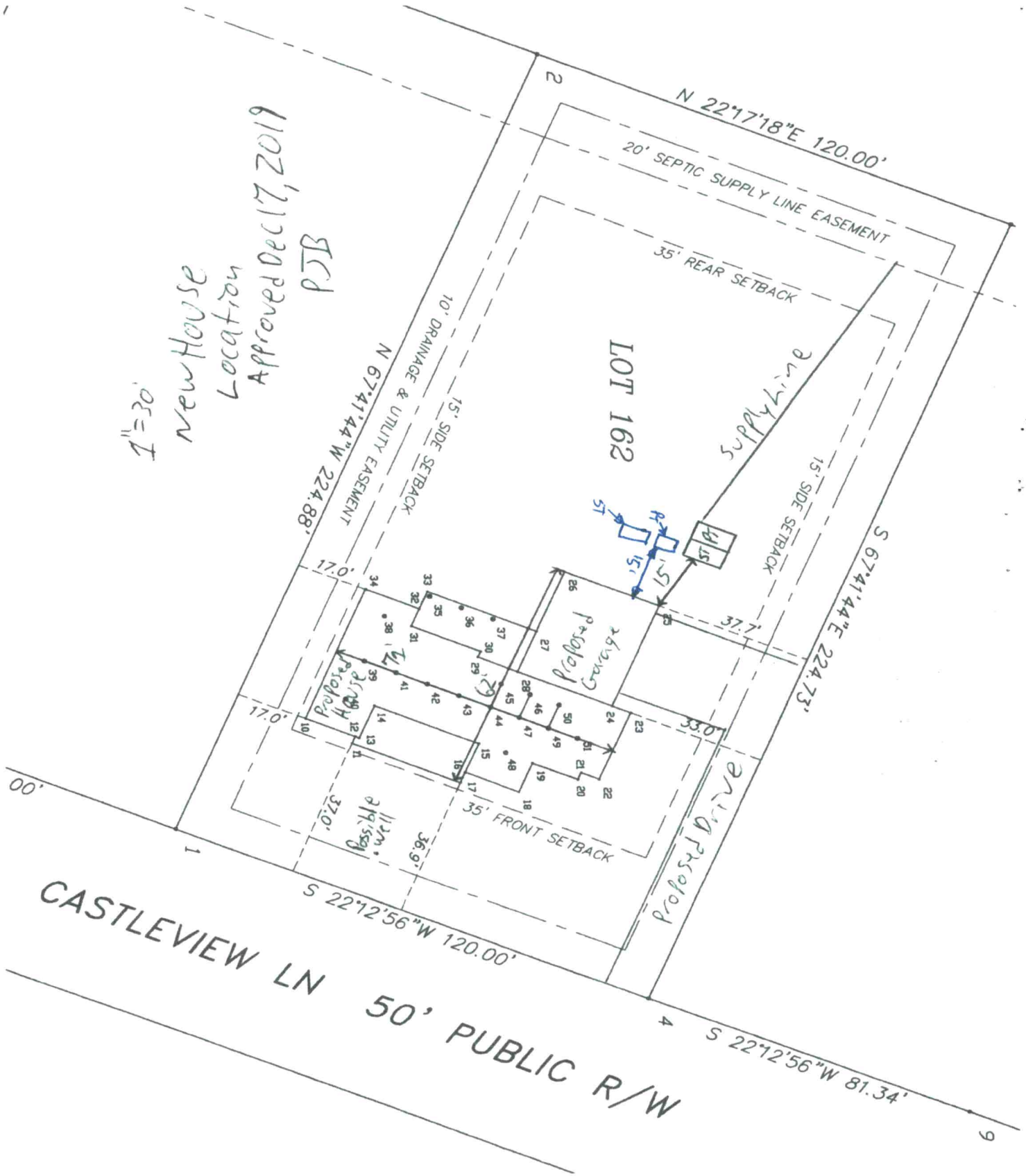
- The proposed house site has been staked by the surveyor using stakes with white tape.
- Due to soil and topography MA&A is proposing to permit this site as an off-site septic easement.
- All elevations and pressure line lengths will be determined prior to installation.

APPROVED JAN 15 2019
KW

SUPPLY LINE PARTIALLY CHECK 4-29
BCW

	Date	Initials
Drain Lines Checked	4-29	BCW
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Y / N		

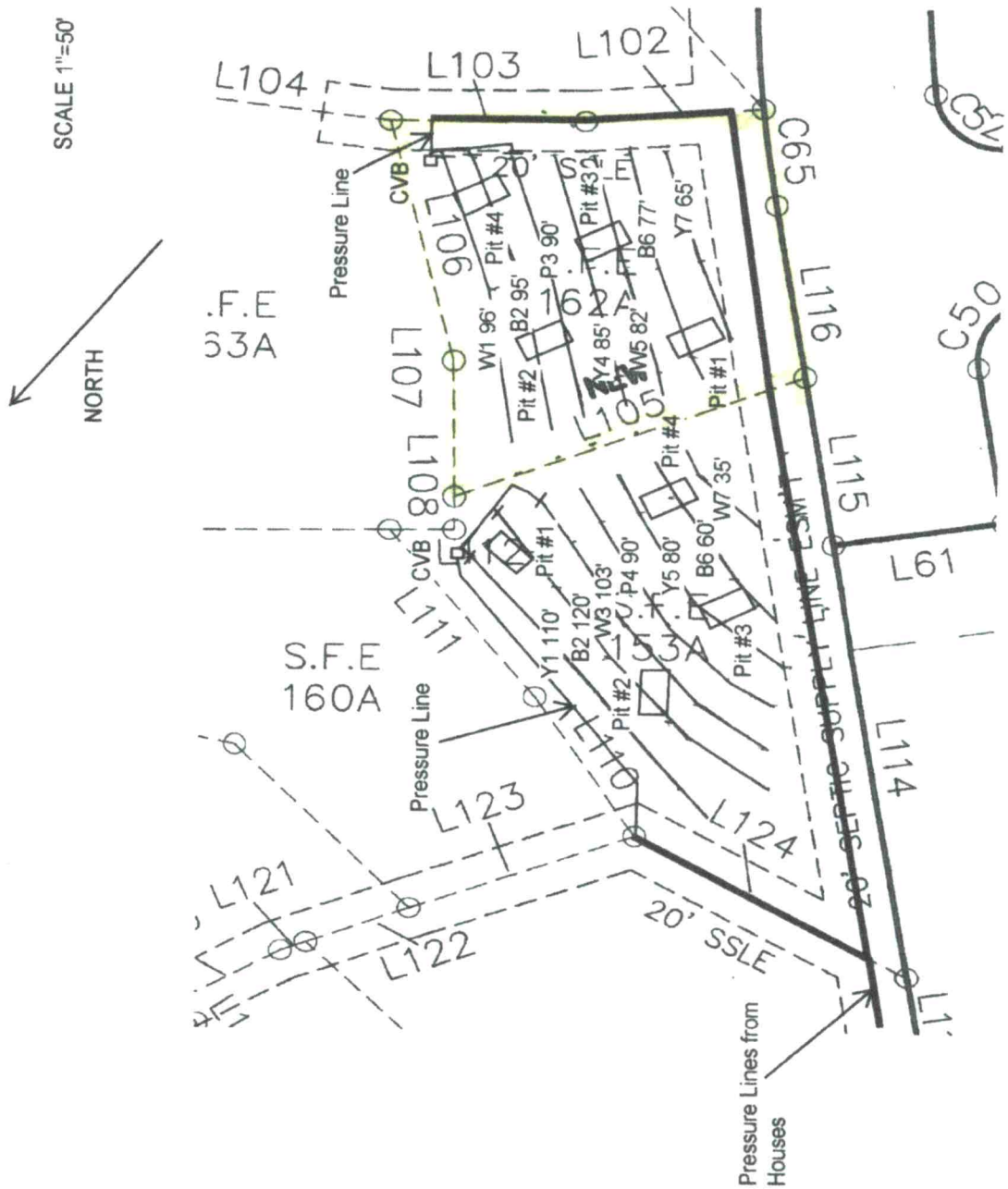
APPROVED DEC 17 2019
PJB


1"=30'
New House Location
Approved Dec 17, 2019
PJB
N 22°17'18"E 120.00'
20' SEPTIC SUPPLY LINE EASEMENT
35' REAR SETBACK
10' DRAINAGE & UTILITY EASEMENT
15' SIDE SETBACK
N 67°41'44"W 224.88'
LOT 162
Supply Line
15' SIDE SETBACK
S 67°41'44"E 224.73'
17.0'
37.7'
17.0'
33.0'
Proposed Garage
Proposed House
62'
Possible Well
32.0'
36.9'
35' FRONT SETBACK
Proposed Drive
S 22°12'56"W 120.00'
S 22°12'56"W 81.34'
CASTLEVIEW LN 50' PUBLIC R/W


148
0.93 AC.
25' CORNER
S25°20'27"W
214.69
92.70
S22°12'50
108.80
120.01
C59
C58
C57
C56
C55
C54
C51
C50
L65
C31
L64
L63
L62
L61
L60
92.90
well
120.17
well
35' FRONT
DRIVE
70' x 70'
165
0.65 AC.
70' x 70'
164
0.58 AC
70' x 70'
163
0.62 AC.
81.34
50'
225.30
N67°41'44"W
231.02
N67°41'44"W
237.42
N67°41'44"W
224.73
N67°41'44"W
214.88
N67°41'44"W
120.00
well
162
0.62 AC.
70' x 70'
15' SIDE
20' SEPTIC SUPPLY LINE EASEMENT
120.00
120.00
110.00
1787.07 TOTAL
S22°17'18"W
120.00
216.09
70' x 70'
House
166
1.01 AC.
PRIVE
1"=60'
CLIFFOR
VICKI
Old House location with new House Location Drawn over
APPROVED JAN 15 2019

APPROVED DEC 17 2019
PJB

APPROVED JAN 15 2019
KW





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

Reference: Data Sheet for Lot 162 Davidson Downes Phase IV; Castleview Lane; Iredell County, NC

House Footprint: 70'x70'
Building Setback: 35' Front, 10' Side,
Water Source: Private Well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.3 gpd/ft2
Suggested System Type: PPBPS (Off-site Easement)
Proposed Repair LTAR: 0.3 GPD/ft2
Repair System Type: PPBPS (Off-site Easement)
Distribution: LP-CVB
Flow per Orifice: .59
Hole Size & Material: 3/16"
Number of Panels: 60
System Flow: 35.4 gal/min
Dosing Volume: 216 gal/dose
Pump Run Time: 6.1 min
Total Linear Footage: 270'
Trench Bottom Square Footage: 810 sq.ft
Elevation Head: TBD
Friction Head: TBD
Pressure Head: 2'
Total Dynamic Head: TBD
Supply Line Length: TBD
Proposed Trench Bottom Depth: 30"
Septic/ Pump tank size: 1000 ST, 1000 PT

APPROVED JAN 15 2019
KW

APPROVED DEC 17 2019
PJB

Line	Design Length	Number of Panels	Actual Length	Elevation
White 1	**90'**	**20**	**96'**	**TBD**
Blue 2	**90'**	**20**	**95'**	**TBD**
Pink 3	**90'**	**20**	**90'**	**TBD**
Yellow 4			85'	TBD
White 5			82'	TBD
Blue 6			77'	TBD
Yellow 7			65'	TBD

Initial System: 270' PPBPS **Repair System:** 309' PPBPS

PROPERTY ID #: _____
COUNTY: _Iredell_

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

APPROVED JAN 15 2019
KW

OWNER: Ray Development _____ APPLICATION DATE _____
ADDRESS: Denver, NC _____ DATE EVALUATED: _10/2018_
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD___ PROPERTY SIZE: ____0.67 AC_____
LOCATION OF SITE: Davidson Downs Lot 162 SFE _____ PROPERTY RECORDED: _____
WATER SUPPLY: Ξ Private ☐ Public Ξ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: Auger Boring Ξ Pit ☐ Cut TYPE OF WASTEWATER: Ξ 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 6%	0-17	Br SCL WSBK	FR SS SP SXP	N/A	58"	N/A	N/A	PS 0.3
		17-30	R C SBK	FR SS SP SXP					
		30-58	R CL WSBK	FR SS SP SXP					
PIT 2	LS 6%	0-5	Br SCL WSBK	FR SS SP SXP	N/A	47"		N/A	PS 0.3+
		5-21	R C SBK	FR SS SP SXP					
		21-47	R CL WSBK	FR SS SP SXP			C-M SAP		
		47-60	VER SL SAP M	FR SS SP SXP			PS		
PIT 3	LS 6%	0-10	Br SCL WSBK	FR SS SP SXP	N/A	58"		N/A	PS 0.3
		10-28	R C SBK	FR SS SP SXP					
		28-58	R CL WSBK	FR SS SP SXP			F-C SAP		
PIT 4	LS 6%	0-7	Br SCL WSBK	FR SS SP SXP	N/A	47"		N/A	PS 0.3+
		7-17	R C SBK	FR SS SP SXP					
		17-42	R CL WSBK	FR SS SP SXP			F-C SAP		
		42-60	VER SL SAP M	FR SS SP SXP			PS		

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	810 FT^2	927 FT^2
System Type(s)	PPBPS	PPBPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS: _____
_____

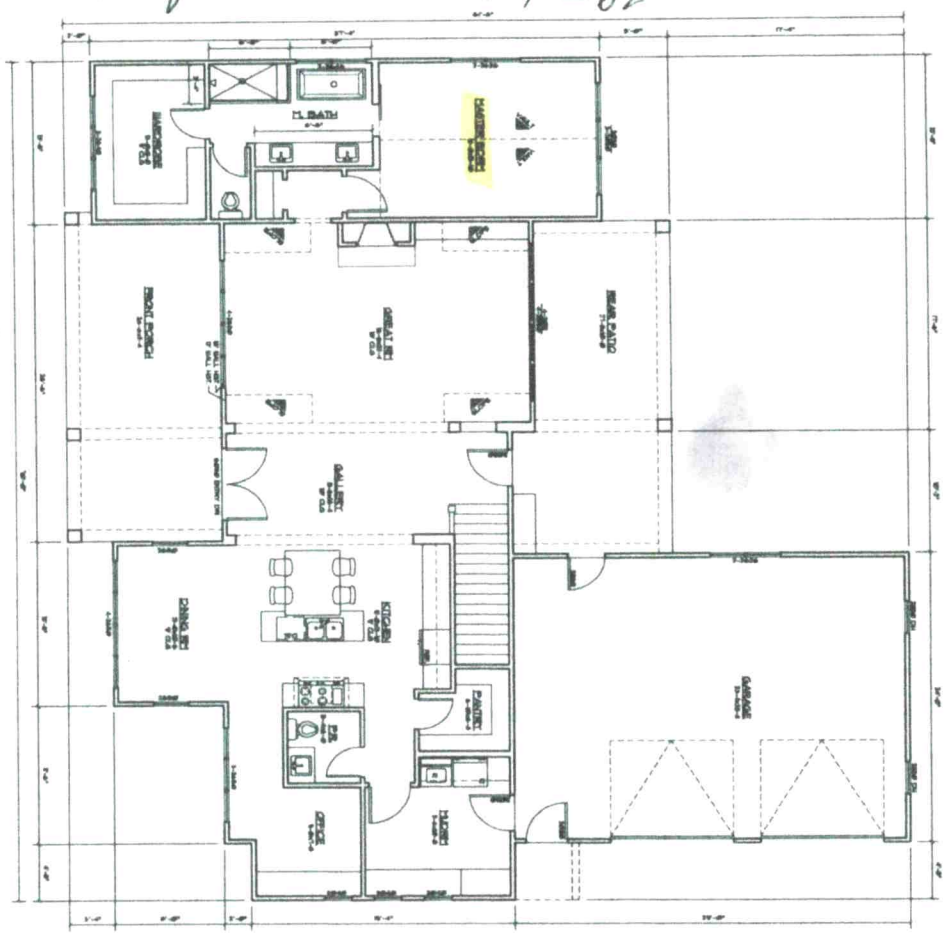
Acknowledgement of
Plans Submittal ONLY!

Date 11/20/19

Date 11/25/19

71'

62'



A-2			PROJECT NAME: DAVIDSON DOWNES JOHNSON BUILDING COMPANY DENVER, NORTH CAROLINA

CORNERSTONE HOME DESIGNS, LLC.
JOEL L. DAVIS- DESIGNER
PHONE: 828-638-2660
EMAIL: CHDLLC@GMAIL.COM
WWW.NCHOMEDESIGN.COM