ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # RELAY AP - 2022-8583

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

PIN # 4664 -- 88 -- 4624

APPLICANT/OWNER: Joe Dority | APPLICANT ADDRESS: 358 Montibello Dr, Mooresville

SITE ADDRESS: 147 Riverstone Dr, Davidson 28036 | PHONE: 803-804-6956 | ALT. PHONE -

SITE DIRECTIONS: Shearer - Anniston - Burnell - Walking Horse - Riverstone | SAP CONTROLLED: [X] YES [ ] NO

SUBDIVISION: Riverstone @ Anniston | SECTION: - | LOT # 4 | LOT AREA: 0.906 acres | DESIGN FLOW: 480 gpd | L.T.A.R.: 0.3

Septic Tank	1000 (gal)	STB	Norwesco	Date			
Pump Tank	(gal)	PT		Date			
Pump Make		Model		Serial #			
# Nitrification Fields	1	# Lines	5	Linear Ft	400'		
Trench Width	36 in	Trench Bottom Depth(Low side)	32 in	Gravel Depth	-		

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

System Description: 25% reduction

Repair System Description: LP - Panel

Maintenance Agreement Required: [ ] YES [X] NO

[X] GRAVITY [ ] PRESSURE

[X] Residence | No. Bedrooms: 4

[ ] Business | No. Persons: 8

[ ] Other | No. Employees:

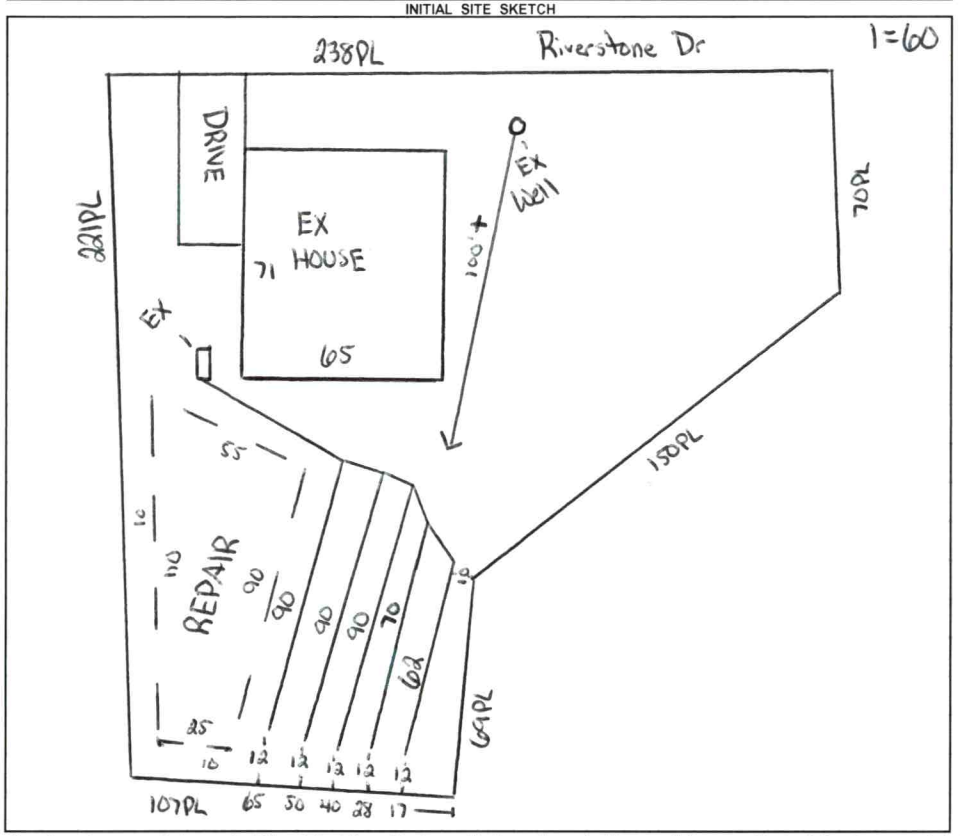
[ ] Slab | [X] Crawl Space

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

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

Comments / Conditions: No foundation drains in rear of house. Do not grade, park, or drive on septic area. Utilize serial distribution.

INITIAL SITE SKETCH



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.

Installed as shown

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: Online Signature | Date:

Installed by: Larry A. Henkle

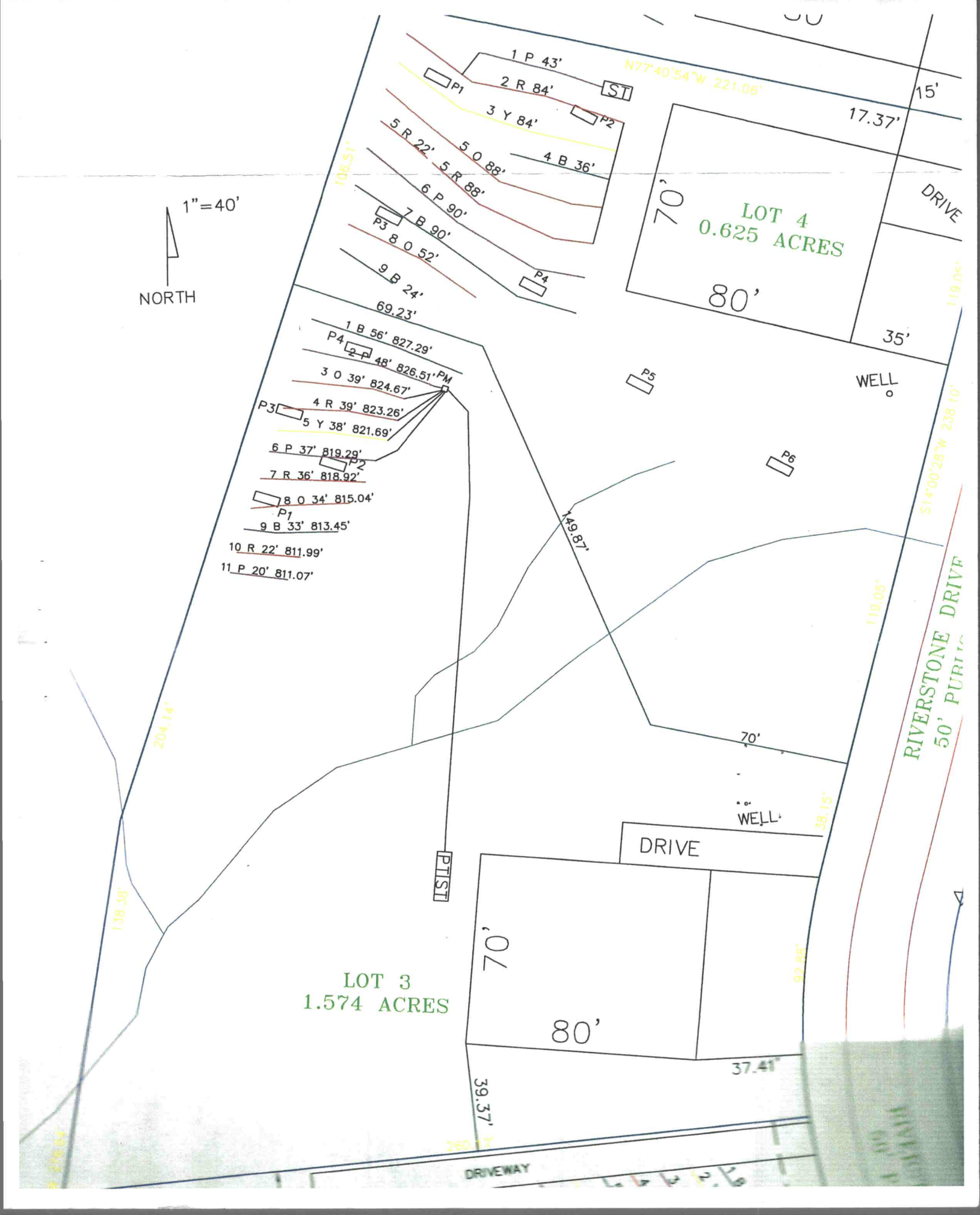
IMPROVEMENT PERMIT by: Cory Whit | Date: 11/30/22

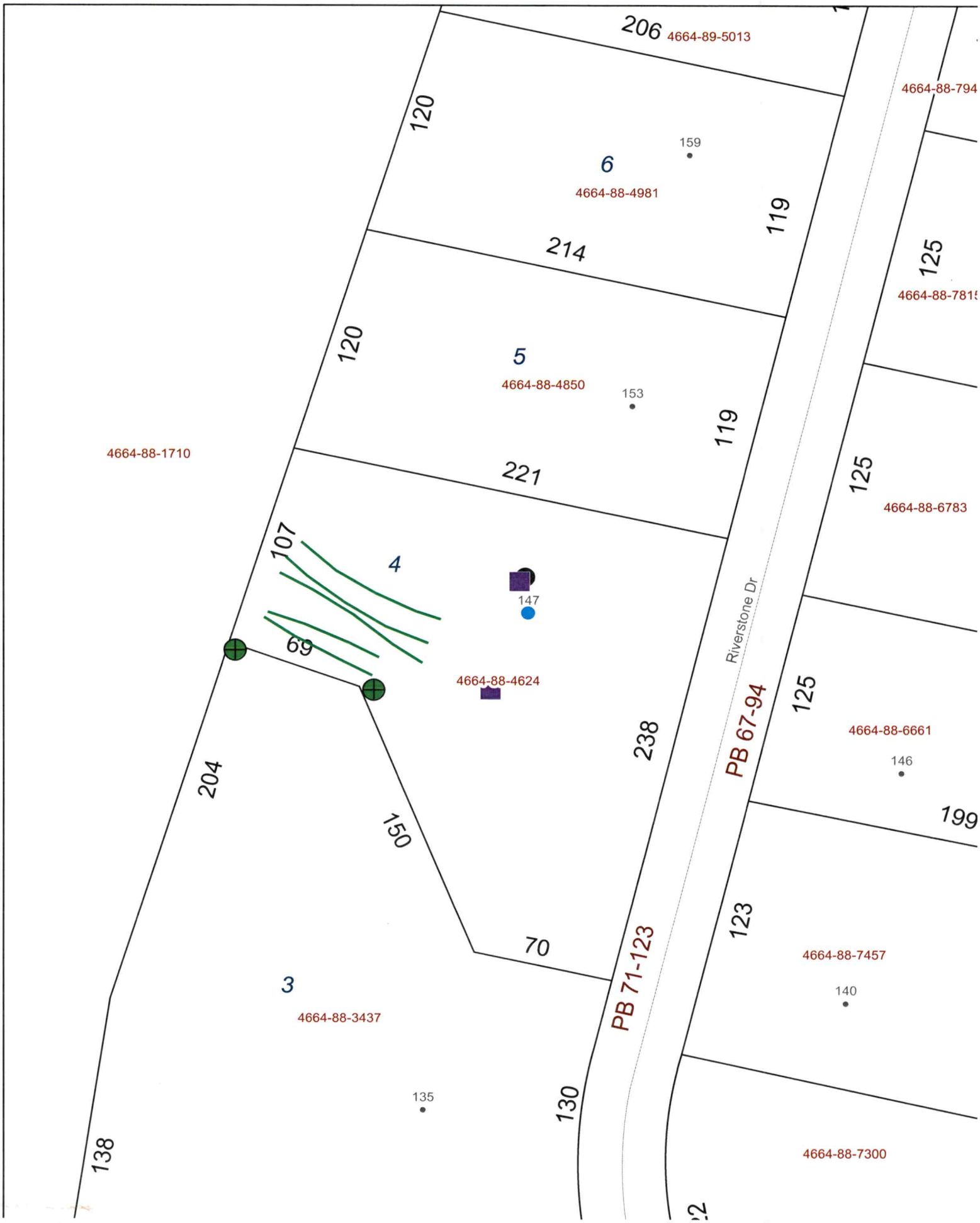
OPERATION PERMIT by: Sydney Holland | Date: 12-8-22

AUTHORIZATION TO CONSTRUCT by: Cory Whit | Date: 11/30/22

Existing System Inspected by: | Date:

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


1"=40'
NORTH
1 P 43'
2 R 84'
3 Y 84'
5 R 22'
5 O 88'
4 B 36'
6 P 90'
7 B 90'
8 O 52'
9 B 24'
69.23'
1 B 56' 827.29'
2 P 48' 826.51'
3 O 39' 824.67'
4 R 39' 823.26'
5 Y 38' 821.69'
6 P 37' 819.29'
7 R 36' 818.92'
8 O 34' 815.04'
9 B 33' 813.45'
10 R 22' 811.99'
11 P 20' 811.07'
P1
P2
P3
P4
P5
P6
ST
PM
PTST
N77°40'54"W 221.06'
106.51'
15'
17.37'
DRIVE
70'
LOT 4
0.625 ACRES
80'
35'
WELL
119.05'
S14°00'28"W 238.10'
149.87'
204.14'
138.58'
70'
WELL
38.15'
DRIVE
70'
80'
92.85'
37.41'
39.37'
LOT 3
1.574 ACRES
RIVERSTONE DRIVE
50' PUBLIC
DRIVEWAY


206
4664-89-5013
4664-88-794
120
159
6
4664-88-4981
119
214
125
4664-88-781
120
5
4664-88-4850
153
119
4664-88-1710
221
125
4664-88-6783
107
4
147
69
4664-88-4624
Riverstone Dr
PB 67-94
125
238
4664-88-6661
146
204
150
199
123
70
PB 71-123
4664-88-7457
140
3
4664-88-3437
135
130
138
4664-88-7300

OWNER INFORMATION

Owner:	RUFUS ROAD PARTNERS LLC.
Address:	11220 ELM LN. SUITE 107
	CHARLOTTE, NC 28277
CLIENT	JOE DORITY
Phone:	803-381-5921
County:	Iredell
Location:	RIVERSTONE AT ANNISTON LOT 4
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	NA

25% GRAVITY DESIGN INFORMATION

Drainfield Design Flow (gpd):	480
Loading/Soil Application Rate (gpd/ft.^{2}):	0.300
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:	32 in. Lowside
Trench Width:	36 in.
TOTAL AREA TRENCH BOTTOM:	1200
Trench Spacing on Center:	9 ft.
Repair Trench Spacing on Center:	8 ft.
Repair Trench Depth:	32 in.
Septic Tank Size:	1000 gal.
Estimated Supply Line Length:	2
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	0.72
Dosing Volume:	NA
Supply Manifold:	SERIAL DISTRIBUTION
Additional Comments:	Soil suitability was performed by BEN ALDRIDGE, REHS

RIVERSTONE AT ANNISTON LOT 4
FIELD LAYOUT SPECIFICATIONS

LAYOUT FOR 4 BEDROOM RESIDENCE — December 30, 2019

LINE #	FLAG COLOR	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM			NA		
HOUSE CRN		NA	NA		
P. TANK		NA	NA		
1	***PINK***	***NA***	***NA***	***44***	***44***
2	***RED***	***NA***	***NA***	***84***	***84***
3	***YELLOW***	***NA***	***NA***	***84***	***84***
4	***BLUE***	***NA***	***NA***	***36***	***36***
5	***ORANGE***	***NA***	***NA***	***88***	***88***
6	***RED***	***NA***	***NA***	***64***	***64***
6	RED	NA	NA	22	22
7	PINK	NA	NA	90	90
8	BLUE	NA	NA	90	90
9	ORANGE	NA	NA	52	52
10	BLUE	NA	NA	24	24
			Total	**678**	**678**

	LINE LENGTH	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
System	***400***	***ACCEPT.***	***0.300***	***25% RED.***	***GRAVITY***
Repair	278	*MOD.*	0.300	PPBPS	LOW PRESSURE

Notes:
** TBM Is Not Required.
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

Comments: **No foundation drain to be installed around the back of the house.**
Iredell County has CS&SC's permission to change septic tank location and distribution type

DOSING CALCULATIONS

Location RIVERSTONE AT ANNISTON

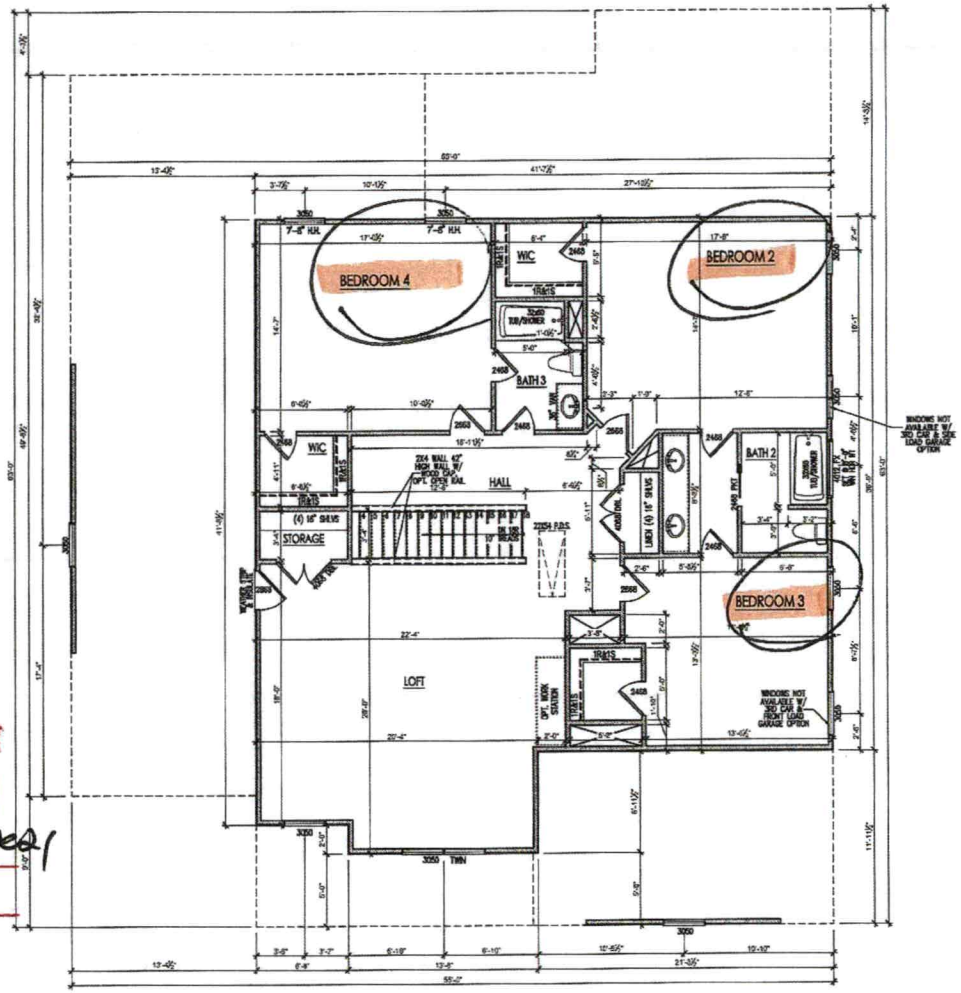
Lot No: 4

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.300	$^{gal}/_{ft^2\ day}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	2	ft.
Supply Line Volume	0.72	gal.
Required Feet of 25% RED. Line	400	ft.
Amount of Line from Layout	400	ft.
Gallons per Minute	NA	$^{gal}/_{min}$
Septic Tank Capacity	1000	gal.
Minimum Septic Tank Capacity	1000	gal.
Lateral Line Volume	261.2	gal.

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

1. **Wall Heights:** Typically 10'-1-1/2" at 1st floor, 9'-1-1/2" at second floor, and 2'-1-1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
2. **Wall Thickness** is typically 4" at exterior walls, 3-1/2" at interior. 2x6 frame shall be used at walls that back up to plumbing fixtures. Walls greater than 16' high shall be framed with 2x6 framing or greater and will be noted as a special condition where it occurs on plan.
3. **Header** height shall be 8'-0" AFF at first floor, and 7'-6" AFF at Second Floor unless noted otherwise.
4. **Jacks:** Openings up to 3'-6" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-6" wide shall have (2) 2x4 jack studs SPF on each side.
5. **Soffit, Coffered Ceilings, Tray Ceilings** and other significant ceiling plan elements are shown on the floor plans and are denoted as single dashed lines. Unless specifically call out as included, Kitchens do not include soffit over wall cabinetry.
6. **Door & Window Frames,** where occurring near corners, shall be a minimum of 4-1/2" from corner, Except for walk-in closets with doors near a corner, doors at closets shall be centered on closet.
7. **Windows:** Shall have at least (1) window in each sleeping room, that meets egress. Shall be provided with tempered glass at hazardous glazing areas. Faire windows shall be installed with obscure glazing.
8. **Closets** for clothing or coat storage shall be equipped with 1 rod/shelf, open wire. Closets for linen shall have 5 open wire shelves. Closets for pantries shall have 5 wood shelves, painted.
9. **Stair** treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
10. **Handrails and Guards** at stairs shall be 34" above the finished surface of the ramp surface of the stair. Handrails at landings and overlooks at multilevel spaces shall be 36" above finished floor. Guards (pickets or balsters) shall be spaced with no more than 4" between guards.
11. **Attic Access** shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 22" x 30". Pull-down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
12. **Garage Door to Living Space** shall be 2'-8"x6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
13. **Garage Walls,** as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



Acknowledgement Of
Plans Submittal ONLY!
Date 5-25-2021
Date
Nick Belk

2/25/2022

SECOND FLOOR PLAN 'B'
SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SOUTH DESIGNS
(O) 919-556-2226
(F) 919-556-2221
www.southdesigns.com

GREYBROOK HOMES

REV.#	DESCRIPTION	DATE
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

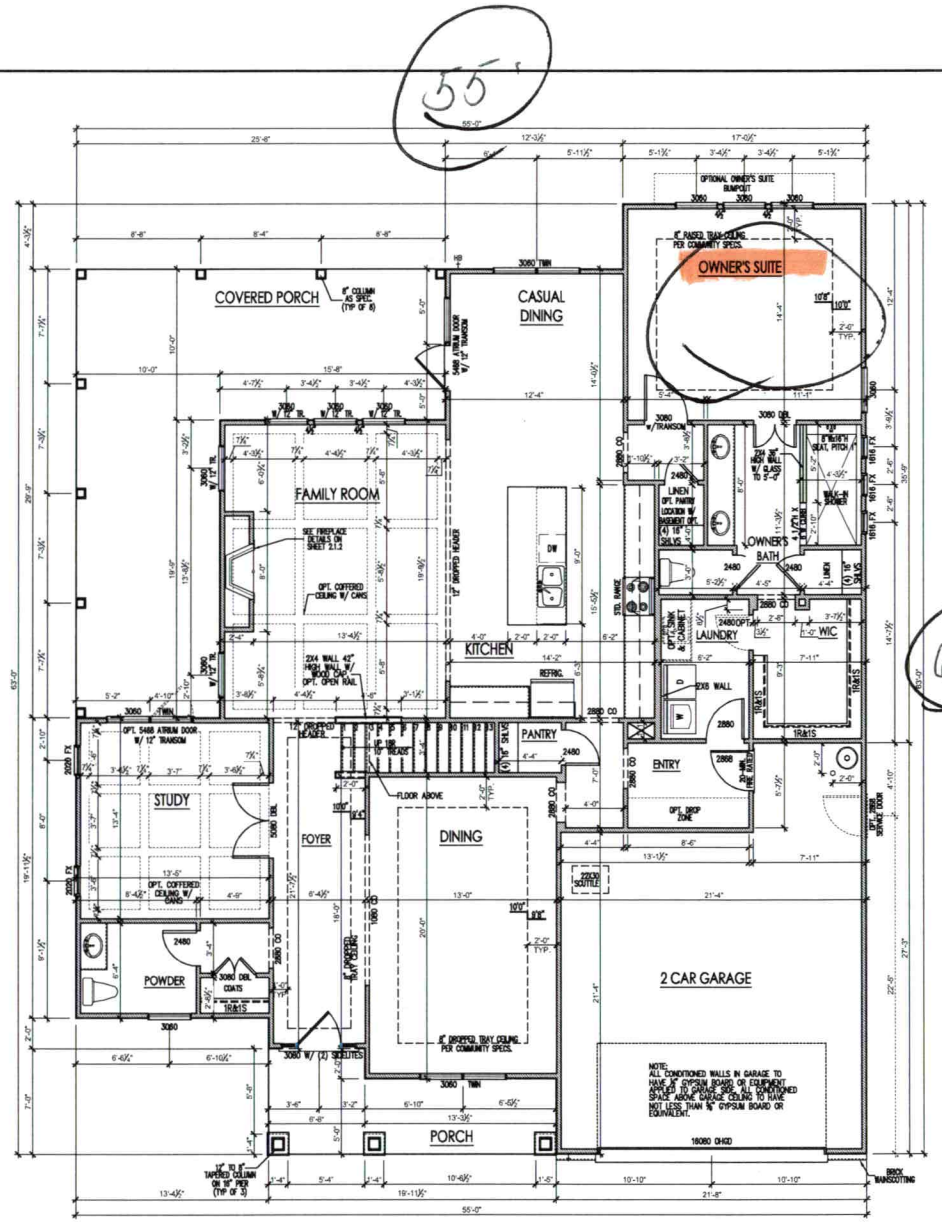
3171 - BERKELEY - RH
SIGNATURE COLLECTION
Second Floor Plan 'B'

DRAWN BY	South Designs
ISSUE DATE	03/15/2018
CURRENT REVISION DATE	10/13/2020
SCALE	1/8" = 1'-0"
SHEET	2.2b

General Floor Plan Notes

General Floor Plan Notes shall apply unless noted otherwise on plan.

1. Wall Heights: Typically 10'-1-1/2" at first floor, 9'-1-1/2" at second floor, and 8' 1-1/2" at attics U.N.O. All walls are constructed using a double top plate. Splices at Double Top Plate do not need to occur at Vertical Studs but must be at least 24" apart from Joint in other Top Plate layer. Special wall heights are noted on plans where they occur.
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4. Jacks: Openings up to 3'-4" wide shall have (1) 2x4 jack stud SPF on each side. Openings greater than 3'-4" wide shall have (2) 2x4 jack studs SPF on each side.
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9. Stair treads shall be 10" deep, risers shall be a maximum of 7-3/4", unless noted otherwise.
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11. Attic Access shall be provided at all attic area with a height greater than 30". Minimum clear attic access shall be 20" x 30". Pull down stairs and access doors in knee walls meeting minimum criteria are also acceptable.
12. Garage Door to Living Space shall be 2'-8" x 6'-8" minimum size and shall be 20 minute fire rated and weather sealed.
13. Garage Walls, as a minimum, shall be separated from living space by installing 1/2" gypsum board on the garage side of the wall. With habitable space above, the inside of all garage walls require 1/2" GWB supporting 5/8" type X GWB on ceiling.



FIRST FLOOR PLAN 'B'

SCALE: 1/8"=1'-0" ON 11x17, 1/4"=1'-0" ON 22x34

SOUTH DESIGNS
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(F) 919-556-2228
www.southdesigns.com

GREYBROOK HOMES

REV #	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		
7		
8		

3171 - BERKELEY - RH

SIGNATURE COLLECTION

First Floor Plan 'B'

DRAWN BY: South Designs

ISSUE DATE: 03/15/2018

CURRENT REVISION DATE: 10/13/2020

SCALE: 1/8" = 1'-0"

SHEET 2.1b