

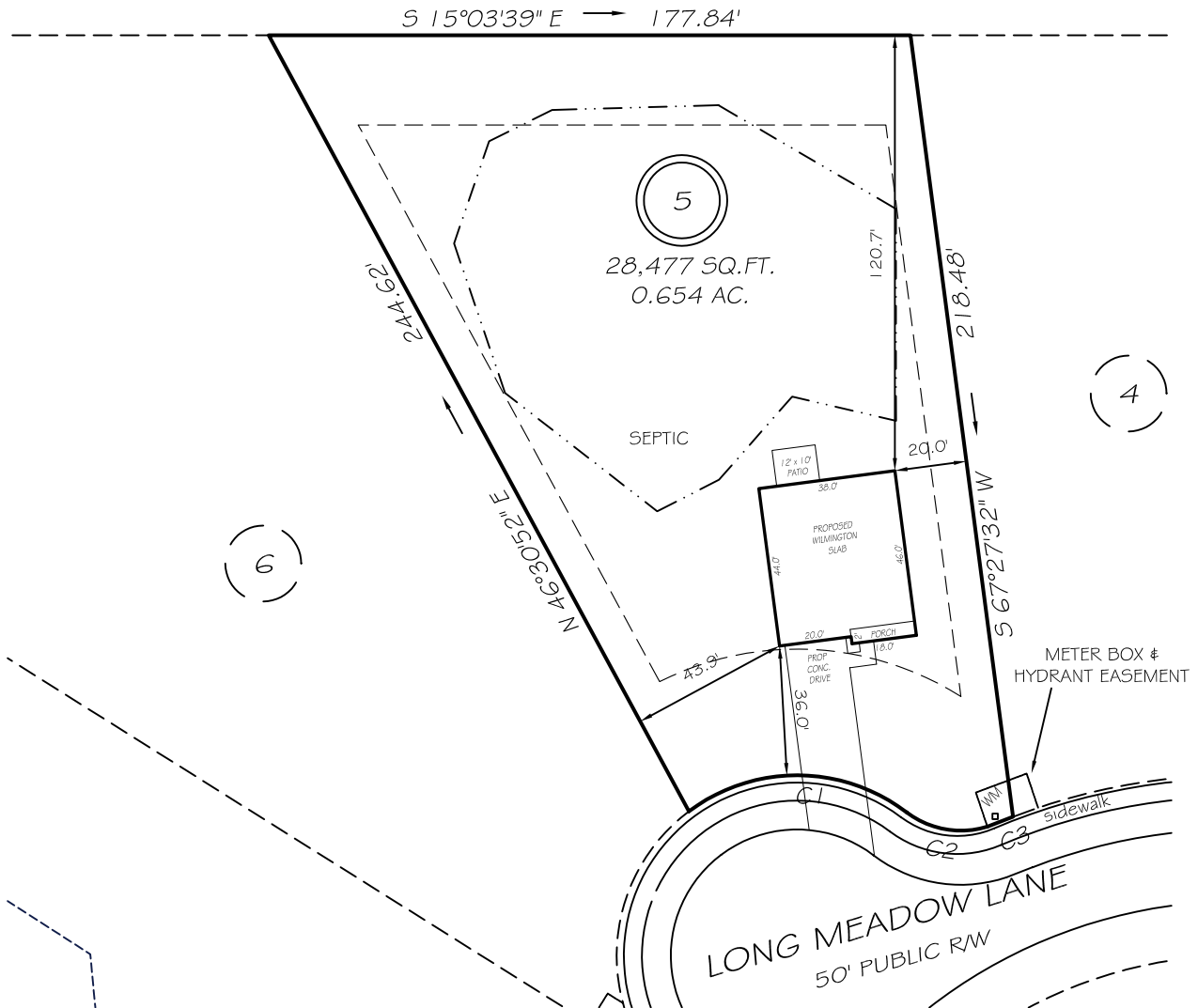
I, MICHAEL P. GRIFFIN, certify that under my direction and supervision this map was drawn from an actual field survey; that the error of closure of the survey as calculated by coordinates is 1: 10,000+; that the area shown hereon was calculated by coordinates.

Witness my hand and seal this day of MONTH 2021.

3894:0626

BM PAGE HARNETT CO. REGISTRY

N/F
CATHY TOLAR
PIN 0653-39-5615
DB 825 PG 991



IMPERVIOUS AREAS

HOUSE	1708 SQ. FT.
DRIVE & WALKS	709 SQ. FT.
PATIO	120 SQ. FT.
TOTAL	2537 SQ. FT.
ALLOWED	4250 SQ. FT.

SETBACKS

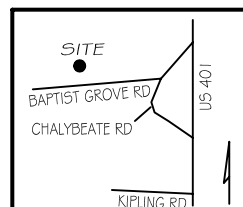
FRONT	35'
REAR	25'
SIDE	10'
CORNER SIDE	20'

C1 R=50.00' L=64.72' N14°50'44"W 60.29'
C2 R=25.00' L=23.68' S04°54'04"E 22.80'
C3 R=594.56' L=7.63' S36°15'47"E 7.63'

P R E L I M I N A R Y
NOT FOR RECORDATION,
SALES OR CONVEYANCE

LEGEND

EIP	EXISTING IRON PIPE	FES	FLARED END SECTION
IPS	IRON PIPE SET	WM	WATER METER
RAW	RIGHT OF WAY	CO	CLEAN OUT
N/F	NOW OR FORMERLY	FH	FIRE HYDRANT
EIS	EXISTING IRON STAKE	CB	CATCH BASIN



GRIFFIN LAND SURVEYING, INC.

P. O. BOX 148
FUQUAY-VARINA, NC 27526
(919) - 567 - 1963

PLOT PLAN

FOR

D. R. HORTON

LAFAYETTE MEADOWS

LOT 5

LONG MEADOW LANE

NORTH CAROLINA

HARNETT CO. HECTORS CREEK TWSHP

DRAWN BY NMF

DATE _____

CHECKED BY MPG

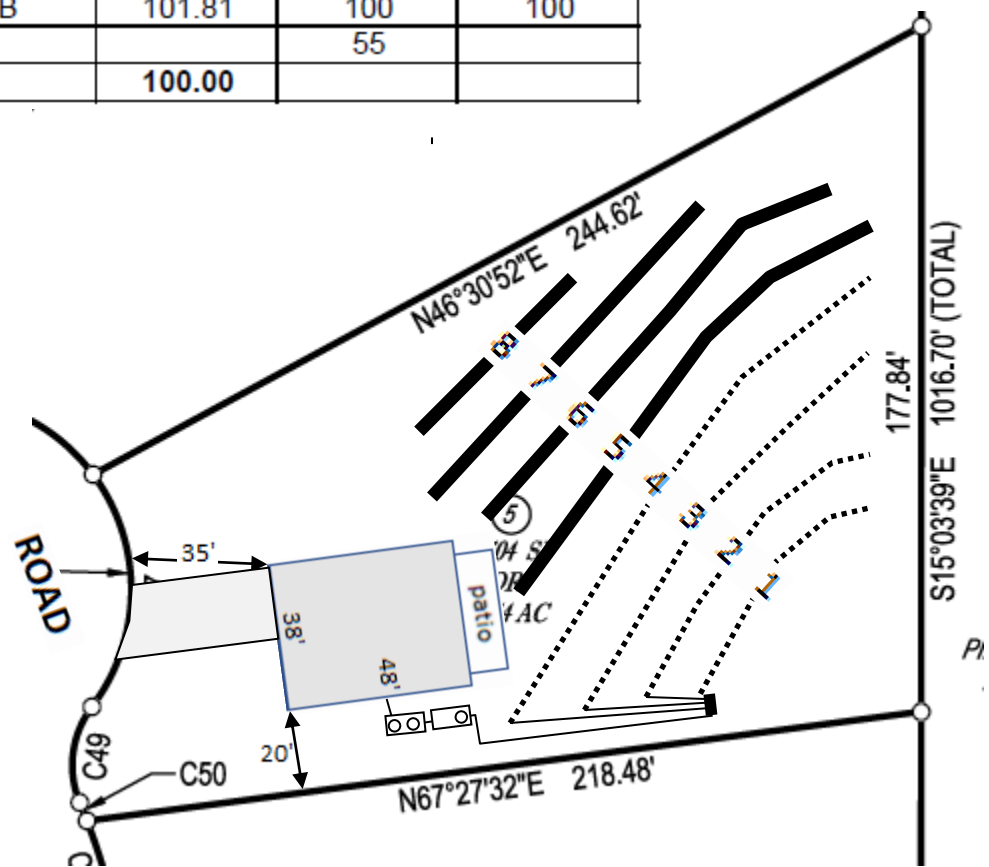
SCALE **1" = 50'**


Lot 5, Lafayette Meadows Subdivision

Design Flow (gal/day) = 480
 Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation (ft)	Drainline Length(ft)	Field Length(ft)
1	R	104.16	60	65
2	Y	103.9	80	89
3	B	103.5	115	115
4	W	102.99	145	147
5	R	102.64	125	177
6	Y	102.22	125	150
7	B	101.81	100	100
8			55	
Benchmark		100.00		

Benchmark @
EIP on Lot 6



Scale 1 in = 50 ft

 Distances are paced
 and approximate.
 Not a survey.

This design represents our professional opinion but does not guarantee or represent permit approval by the Health Department.

4 bedroom home (480 gal/day)
Initial System
 Pump to 400ft (pressure manifold distribution)
 Accepted Status System (25% reduction drainlines)
 installed on contour at 20 inch trench depth
 LTAR 0.3 gal/day/sqft
Repair System
 Pump to 405ft (pressure manifold distribution)
 Accepted Status System (25% reduction drainlines)
 installed on contour at 18-24 inch trench depth
 LTAR 0.3 gal/day/sqft

Lafayette Meadows Lot 5

Pressure Manifold Design Criteria

Initial System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	R	104.16	60	1/2"sch 80	5.48	1.246	0.415
2	Y	103.90	80	1/2"sch 40	7.11	1.212	0.404
3	B	103.50	115	3/4"sch 80	10.10	1.198	0.399
4	W	102.99	145	3/4"sch 40	12.50	1.176	0.392

Total Drainline= 400 Total Flow= 35.19
 Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.420
 Daily Flow= 480 Total Flow (gpm)= 35.19 Daily PRT(min)= 13.64
 Dose Vol= 195.90 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 5.57

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
5	R	102.64	125	3/4"sch 40	12.50	1.183	0.394
6	Y	102.22	125	3/4"sch 40	12.50	1.183	0.394
7	B	101.81	100	3/4"sch 80	10.10	1.195	0.398
8			55	1/2"sch 80	5.48	1.179	0.393

Total Drainline= 405 Total Flow= 40.58
 Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.42
 Daily Flow= 480 Total Flow (gpm)= 40.58 Daily PRT(min)= 11.83
 Dose Vol= 198.35 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.89

* Target LTAR: Convert LTAR for accepted system drainlines by dividing soil LTAR by 75%