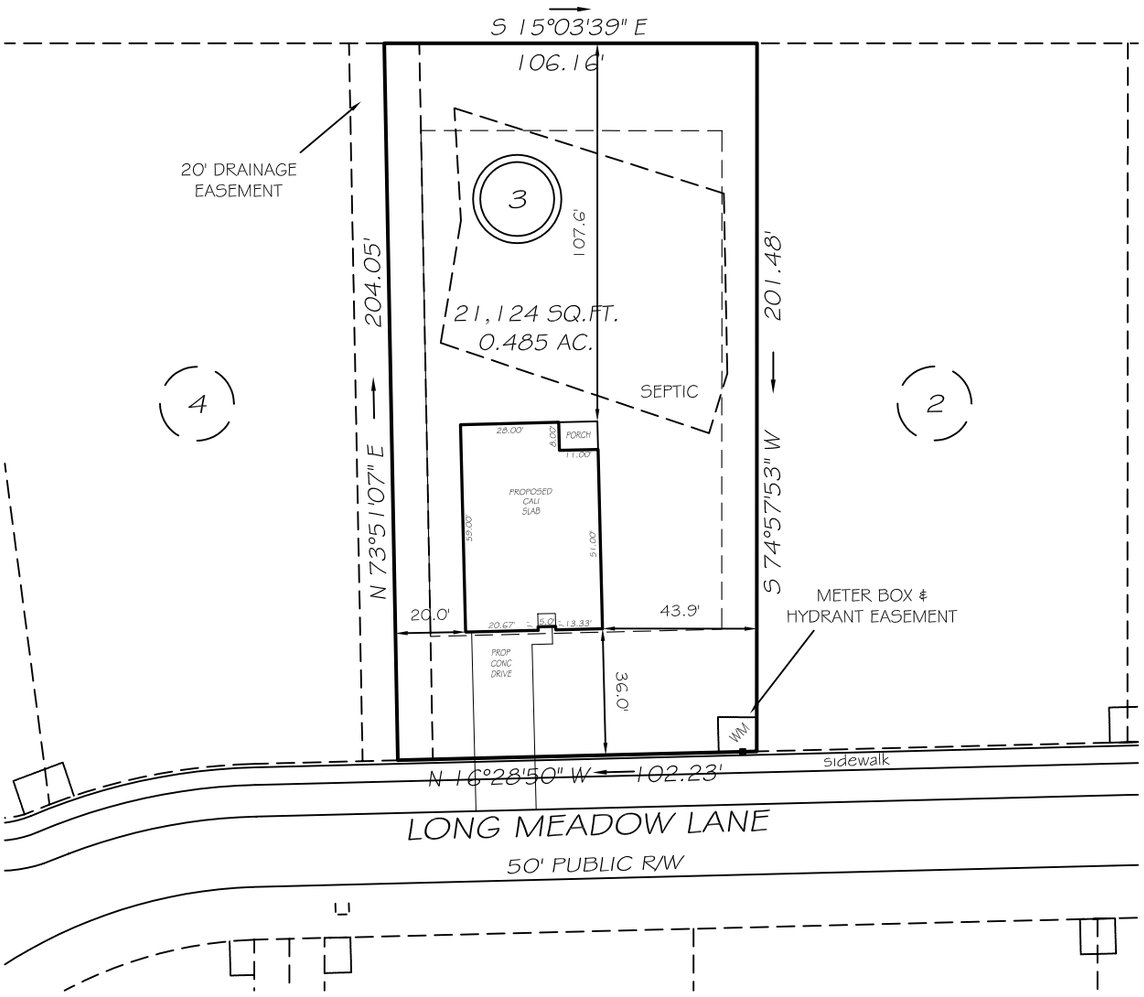
I, MICHAEL P. GRIFFIN , certify that under my direction and supervision this map was drawn from an actual field survey, that the error of closure of the survey as calculated by coordinates is 1: 10,000+ ; that the area shown hereon was calculated by coordinates.

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



SETBACKS

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

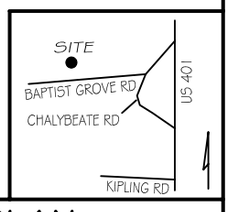
IMPERVIOUS AREAS

HOUSE	2296 SQ. FT.
DRIVE & WALKS	643 SQ. FT.
PATIO	000 SQ. FT.
TOTAL	2939 SQ. FT.
ALLOWED	4250 SQ. FT.

PRELIMINARY
NOT FOR RECORDATION, SALES OR CONVEYANCE

LEGEND

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

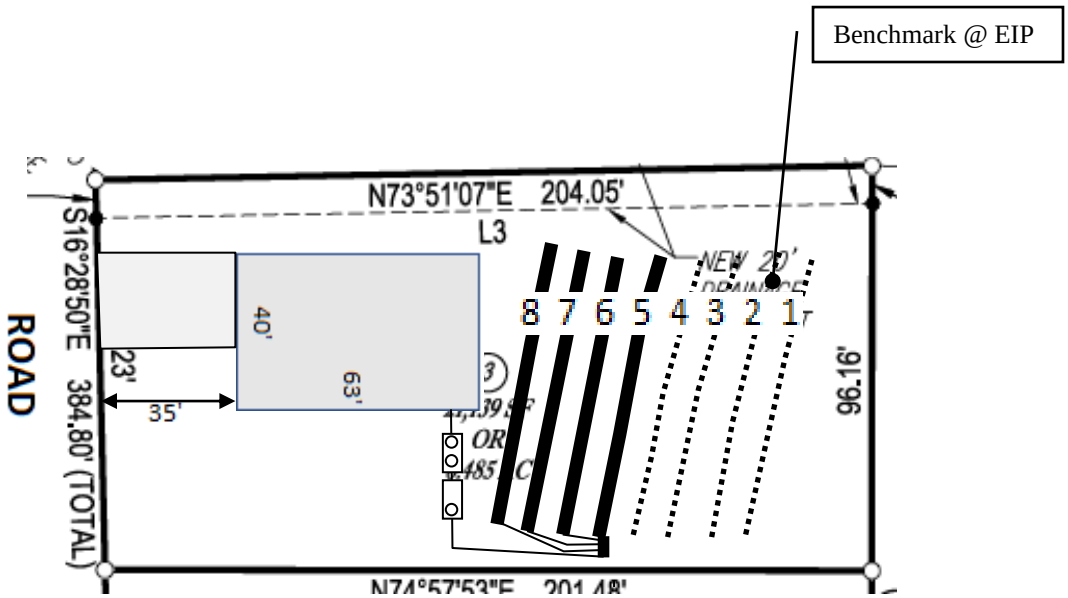


GRIFFIN LAND SURVEYING, INC.
P. O. BOX 148
FUQUAY-VARINA, NC 27526
(919) - 567 - 1963

DRAWN BY NMF
DATE DATE
CHECKED BY MPG
SCALE 1" = 50'

PLOT PLAN
FOR
D. R. HORTON
LAFAYETTE MEADOWS
LOT 3
LONG MEADOW LANE
NORTH CAROLINA
HARNETT CO. HECTORS CREEK TWSHP

Lot 3, Lafayette Meadows Subdivision



Design Flow (gal/day) = 360
Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation North (ft)	Relative Elevation South (ft)	Drainline Length(ft)	Field Length (ft)
1	R	100.22	100.22	75	78
2	B	99.86	100.25	75	77
3	W	99.91	100.21	75	77
4	Y	99.86	100.06	75	76
5	R	99.78	100.04	75	77
6	B	99.91	100.23	75	75
7	W	99.57	99.32	75	77
8	Y	98.95	98.64	75	82
Benchmark		**100.00**	**100.00**		

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.

3 bedroom home (360 gal/day)

Initial System

Pump to 4 X 75ft (pressure manifold distribution)
Accepted Status System (25% reduction drainlines)
installed off contour at 18-24 inch trench depth
LTAR 0.3 gal/day/sqft

Repair System

Pump to 4 X 75ft (pressure manifold distribution)
Accepted Status System (25% reduction drainlines)
installed off contour at 18-24 inch trench depth
LTAR 0.3 gal/day/sqft

Lafayette Meadows Lot 3

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)
5	R	100.04	75	1/2"sch 40	7.11	1.200	0.400
6	B	100.23	75	1/2"sch 40	7.11	1.200	0.400
7	W	99.32	75	1/2"sch 40	7.11	1.200	0.400
8	Y	98.64	75	1/2"sch 40	7.11	1.200	0.400

Total Drainline= 300 Total Flow= 28.44

Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.420

Daily Flow= 360 Total Flow (gpm)= 28.44 Daily PRT(min)= 12.66

Dose Vol= 146.93 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 5.17

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/ Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	Y	100.22	75	1/2"sch 40	7.11	1.200	0.400
2	R	100.25	75	1/2"sch 40	7.11	1.200	0.400
3	B	100.21	75	1/2"sch 40	7.11	1.200	0.400
4	W	100.06	75	1/2"sch 40	7.11	1.200	0.400

Total Drainline= 300 Total Flow= 28.44

Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.420

Daily Flow= 360 Total Flow (gpm)= 28.44 Daily PRT(min)= 12.66

Dose Vol= 146.93 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 5.17

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