


Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: D.R. Horton Inc. PROPERTY LOCATION: 53 Old Maple Ct. (Baptist Grove Rd. - SR ')
 SUBDIVISION Lafayette Meadows LOT # 22
 NEW REPAIR EXPANSION
 Type of Structure: 38x36 (4bed/2.5ba) SFD Site Improvements required prior to Construction Authorization Issuance:
 Proposed Wastewater System Type: 25% Reduction Sys.
 Projected Daily Flow: 480 GPD
 Number of bedrooms: 4 Number of Occupants: 8 max
 Basement Yes No
 Pump Required: Yes No May be required based on final location and elevations of facilities
 Type of Water Supply: Community Public Well Distance from well NA feet Permit valid for: Five years
 Permit conditions: _____ No expiration

Authorized State Agent:  Date: 11/22/2021 SEE ATTACHED SITE SKETCH
 The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

Construction Authorization (Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: D.R. Horton Inc. PROPERTY LOCATION: 53 Old Maple Ct. (Baptist Grove Rd. - S)
 SUBDIVISION Lafayette Meadows LOT # 22
 Facility Type: 46x38(4bed/2.5ba) SFD New Expansion Repair
 Basement? Yes No Basement Fixtures? Yes No
 Type of Wastewater System** Pump to 25% Reduction System (Initial) Wastewater Flow: 480 GPD
 (See note below, if applicable Pump to 25% Reduction System (Repair)
Installation Requirements/Conditions
 Septic Tank Size 1000 gallons Number of trenches 5
 Pump Tank Size _____ gallons Exact length of each trench 400 (total) feet Trench Spacing: 9 Feet on Center
 Trenches shall be installed on contour at a Soil Cover: 6-12 inches
 Maximum Trench Depth of: 18-24 inches (Maximum soil cover shall not exceed
 (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom)
 in all directions)
 Pump Requirements: _____ ft. TDH vs. _____ GPM Aggregate Depth: NA inches below pipe
 _____ inches above pipe
 Conditions: Proposal by Hal Owens Assoc. Inc., Pressure Manifold NA inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Signature: _____ Date: _____

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent:  Date: 11/22/2021
ANDREW CORN Construction Authorization Expiration Date: 11/22/2026

Application # SFD2110-0081

Harnett County Department of Public Health Site Sketch

Property Location: 53 Old Maple Ct. (Baptist Grove Rd. - SR 1427)

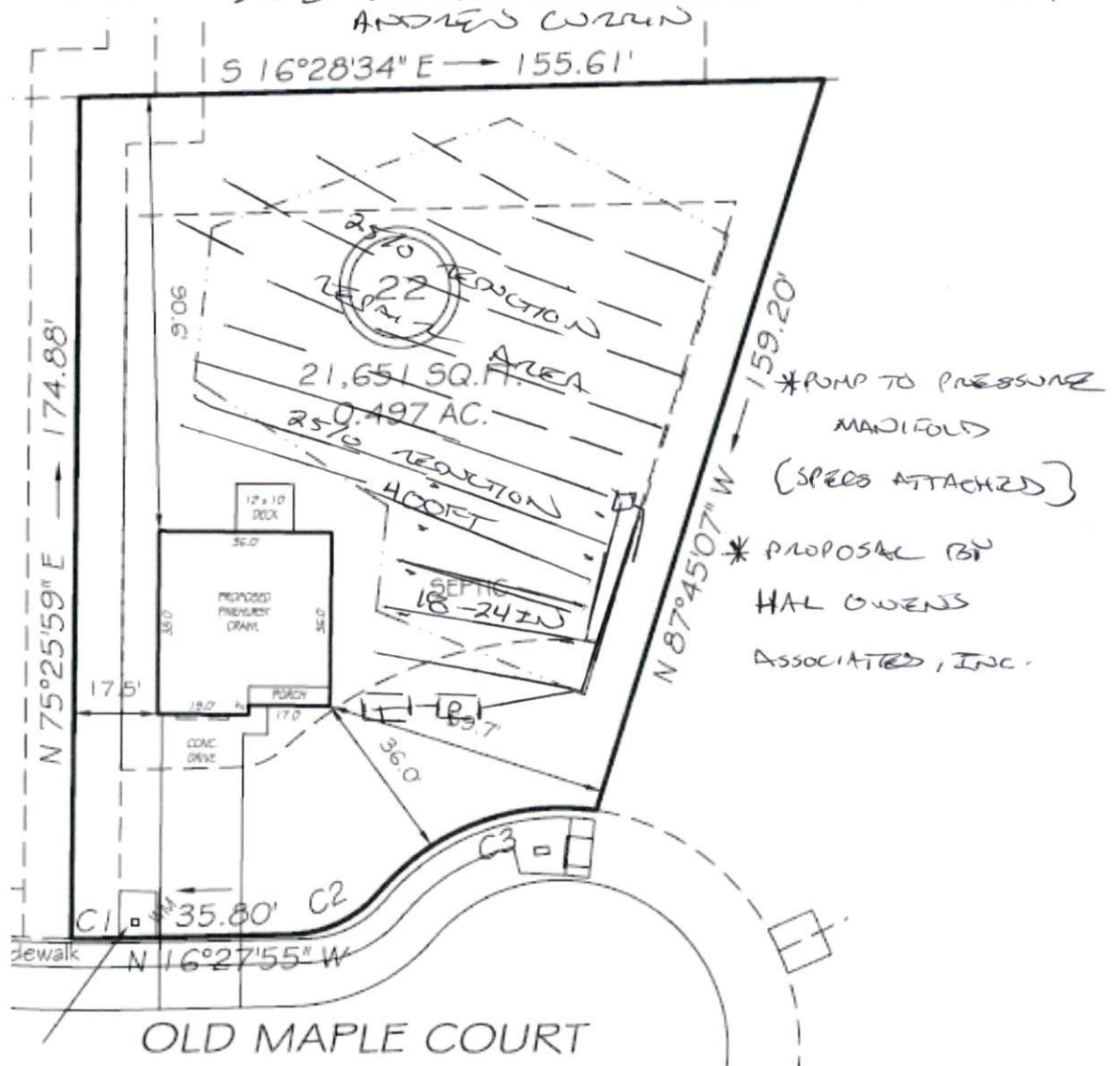
Issued To: D.R. Horton Inc.

Subdivision Lafayette Meadows

Lot # 22

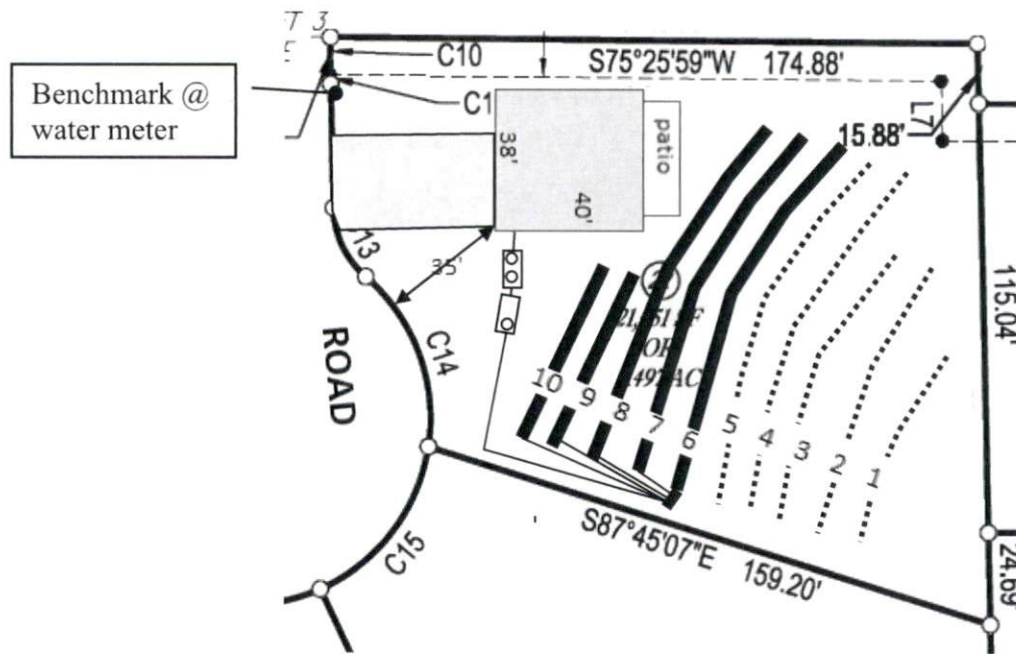
Authorized State Agent: _____

Date: 11/22/2021



This drawing is for illustrative purposes only. System installation must meet all pertinent laws, rules, and regulations.

Lot 22, Lafayette Meadows Subdivision



Lines flagged at site on 9-ft centers.

Line #	Color	Relative	Elevation	Drainline Length(ft)	Field Length(ft)
		North (ft)	South (ft)		
1	B		100.66	55	59
2	W		100.39	75	82
3	Y	100.41	100.02	75	95
4	B	100.03	99.97	100	103
5	W	99.84	99.68	100	109
6	Y	99.65	99.69	100	115
7	B	99.55	99.38	100	110
8	W	99.19	99.32	100	110
9	R	99.04	99.02	51	
10				51	
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.

4 bedroom home (480 gal/day)

Initial System

Pump to 402ft (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 405ft (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 22

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)
6	Y	100.66	100	3/4"sch 80	10.10	1.175	0.392
7	B	100.39	100	3/4"sch 80	10.10	1.175	0.392
8	W	100.02	100	3/4"sch 80	10.10	1.175	0.392
9	R	99.97	51	1/2"sch 80	5.48	1.250	0.417
10			51	1/2"sch 80	5.48	1.250	0.417

Total Drainline= 402 Total Flow= 41.26

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

Daily Flow= 480 Total Flow (gpm)= 41.26 Daily PRT(min)= 11.63

Dose Vol= 196.88 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.77

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	B	99.68	55	1/2"sch 80	5.48	1.199	0.400
2	W	99.69	75	1/2"sch 40	7.11	1.140	0.380
3	Y	99.38	75	1/2"sch 40	7.11	1.140	0.380
4	B	99.32	100	3/4"sch 80	10.10	1.215	0.405
5	W	99.02	100	3/4"sch 80	10.10	1.215	0.405

Total Drainline= 405 Total Flow= 39.90

Pressure Head (ft)= 2 Target LTAR* (gpd/sf)= 0.4 LTAR + 5% 0.42

Daily Flow= 480 Total Flow (gpm)= 39.90 Daily PRT(min)= 12.03

Dose Vol= 198.35 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 4.97

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