

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: 74 Old Maple Ct. (Baptist Grove Rd. - SR)
 SUBDIVISION Lafayette Meadows LOT # 20

NEW REPAIR EXPANSION Site Improvements required prior to Construction Authorization Issuance: _____

Type of Structure: 46x38(4bed/2.5ba) SFD

Proposed Wastewater System Type: 25% Reduction Sys.

Projected Daily Flow: 480 GPD

Number of bedrooms: 4 Number of Occupants: 8 max

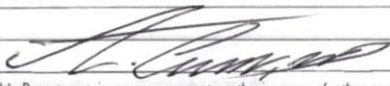
Basement Yes No

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 No expiration

Permit conditions: _____

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: 74 Old Maple Ct. (Baptist Grove Rd. - S)
 SUBDIVISION Lafayette Meadows LOT # 20

Facility Type: 46x38(4bed/2.5ba) SFD New Expansion Repair

Basement? Yes No Basement Fixtures? Yes No

Type of Wastewater System** 25% Reduction System (Initial) Wastewater Flow: 480 GPD

(See note below, if applicable 25% Reduction System (Repair)

Installation Requirements/Conditions

Septic Tank Size <u>1000</u> gallons	Number of trenches <u>3</u>	Exact length of each trench <u>134</u> feet	Trench Spacing: <u>9</u> Feet on Center
Pump Tank Size _____ gallons	Trenches shall be installed on contour at a	Maximum Trench Depth of: <u>18-24</u> inches	Soil Cover: <u>6-12</u> inches
	(Trench bottoms shall be level to +/-1/4"	in all directions)	(Maximum soil cover shall not exceed 36" above the trench bottom)

Pump Requirements: _____ ft. TDH vs. _____ GPM

Aggregate Depth: NA inches below pipe
NA inches above pipe
NA inches total


Conditions: Proposal by Hal Owens Assoc. Inc.,

**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
A. OWENS Construction Authorization Expiration Date: 11/22/2026

Harnett County Department of Public Health Site Sketch

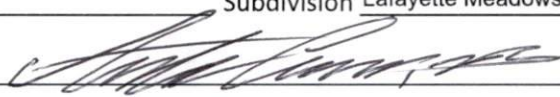
Property Location: 74 Old Maple Ct. (Baptist Grove Rd. - SR 1427)

Issued To: D.R. Horton Inc.

Subdivision Lafayette Meadows

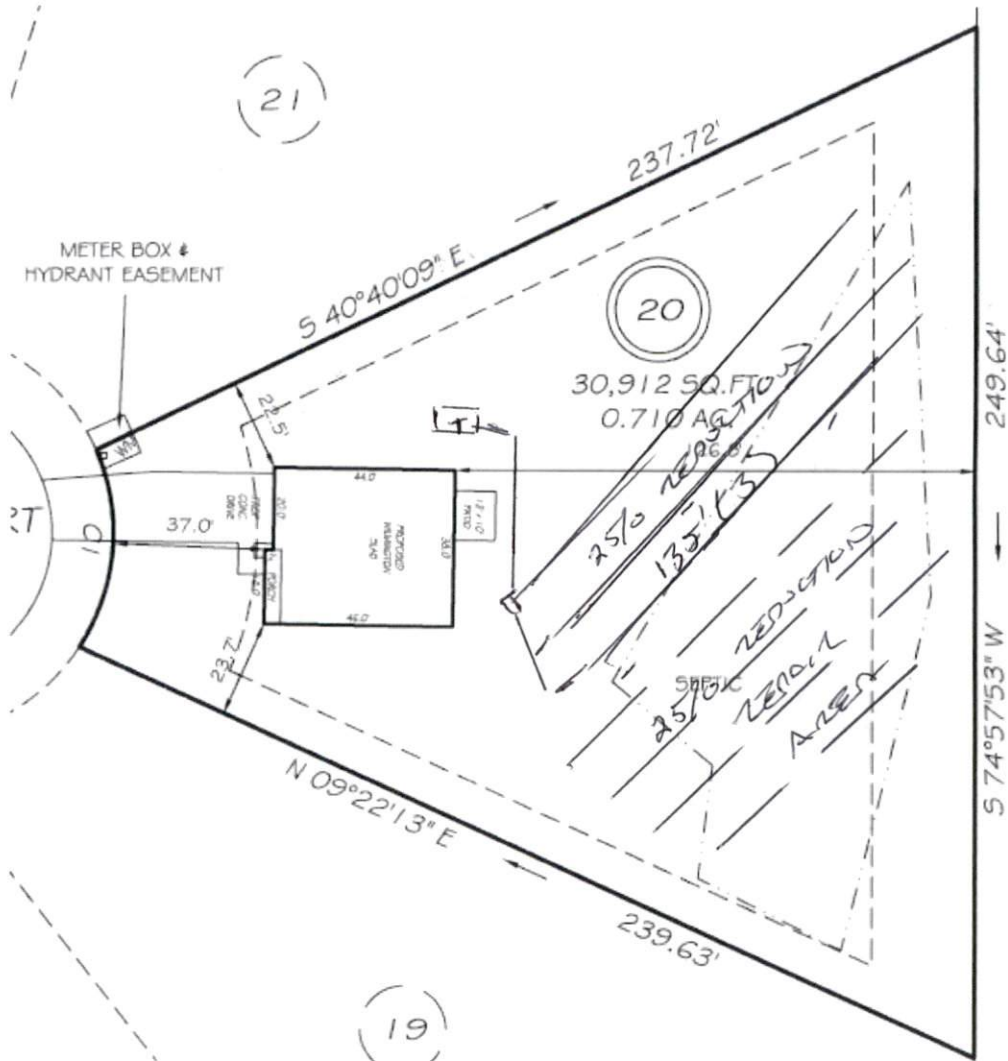
Lot # 20

Authorized State Agent: _____



Date: 11/22/2021

ANDREW COLLINS



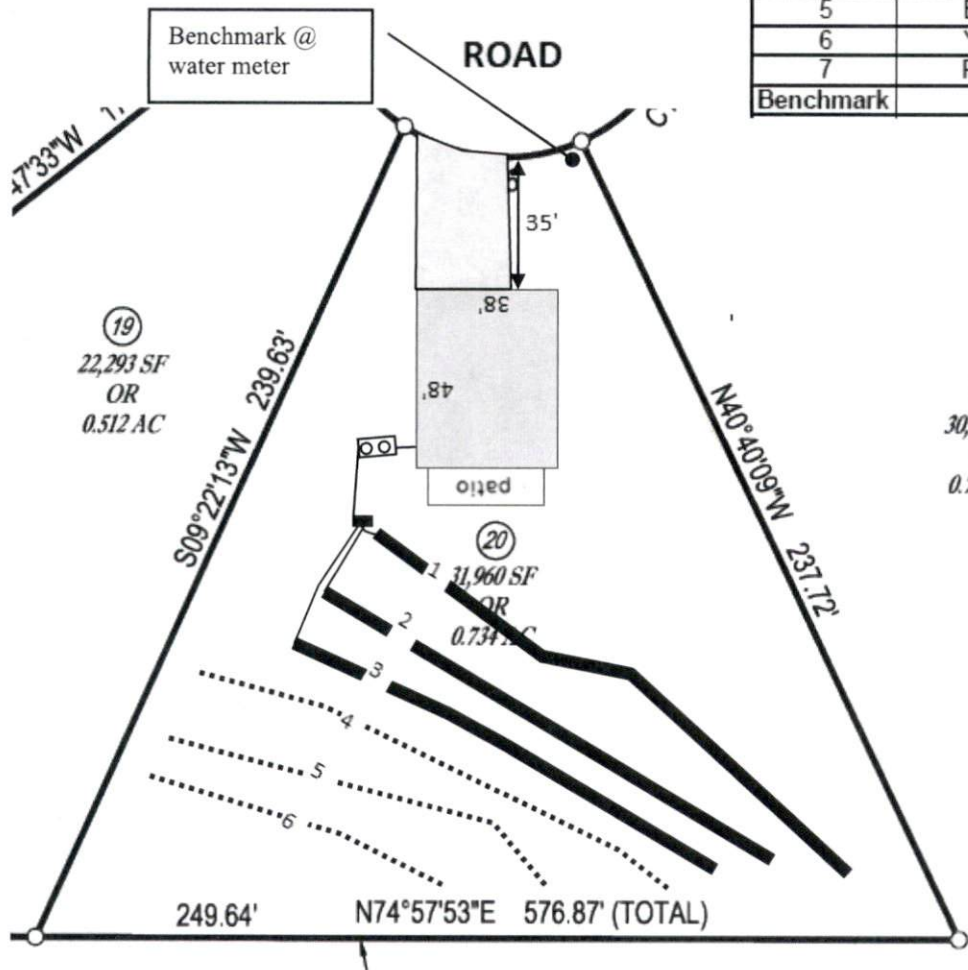
- * PROPOSED BY HALL OWENS & ASSOCIATES INC.
- * GRAVITY TO D-BOX EQUAL DISTRIBUTION
- * INSTALL AS HIGH UP HILL AS CONTOUR ALLOWS


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

Lot 20, Lafayette Meadows Subdivision

Lines flagged at site on 9-ft centers.

Line #	Color	Relative Elevation(ft)	Drainline Length(ft)
1	B	96.04	133
2	Y	95.65	133
3	R	95.28	133
4	W	94.92	134
5	B	94.49	110
6	Y	94.23	89
7	R	93.86	67
Benchmark		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
 Gravity to 3 X 133ft
 Accepted Status System (25% reduction drainlines)
 installed on contour at 18-24 inch trench depth
 LTAR 0.3 gal/day/sqft
Repair System
 Pump to 400ft (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 20

Pressure Manifold Design Criteria

Repair System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
4	W	94.92	134	1"sch 40	20.20	1.214	0.405
5	B	94.49	110	1"sch 80	16.80	1.230	0.410
6	Y	94.23	89	3/4"sch 40	12.50	1.131	0.377
7	R	93.86	67	3/4"sch 80	10.10	1.214	0.405

Total Drainline= 400 Total Flow= 59.60

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

Daily Flow= 480 Total Flow (gpm)= 59.60 Daily PRT(min)= 8.05

Dose Vol= 195.90 gallons w/ Pipe Vol @% 75 Dose PRT (min)= 3.29

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