

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT
NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED
***PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR
INTENDED USE CHANGED***

CONSTRUCTION AUTHORIZATION PERMIT

PERMIT # WRP-157985-2025 **APPLICATION DATE:** 10/28/2025 **BLDG. PERMIT#:** RBPR-159890-2025

PIN: 1798166132 **RECORDED:** Yes

TOWNSHIP: 09 - Little River **JURISDICTION:** Wake County **ZONING:** R-30

APPLICANT: CANTIERE HOMES INC., CANTIERE DEVELOPMENTS LLC **BUSINESS PHONE:** (919) 285-8986
8505 ALDEN LN **HOME PHONE:**
WAKE FOREST, NC 27587 **MOBILE PHONE:** (919) 285-8986

HD USE: 0023 IP Only **EXISTING USE:** 0023 IP Only

SITE ADDRESS: 8508 PASCOLO WAY

SUBDIVISION: LENNOX MANORS MINOR SUB COF **LOT:** 11 **ACRES:** 1.51

DIRECTIONS: Take 96 east to Martin Rd, Left on Martin Rd, Left on Lockleair Rd, Right on Hopkins Chapel Rd, Left on Pascolo Way, Lot 11 is second lot on the right

Contractors shall install system on contour. See attached SITE PLAN for wastewater system design and well location. No underground utilities, water lines or sprinklers systems may be located in the original system, or permit areas. A septic tank filter with two risers for access is required. The wastewater system shall not be covered or placed into use until inspected by the Wake County Department of Environmental Services and Operations Permit issued. An Accepted Status System may be used in place of conventional system, if it can be placed in the permitted/authorized trench footprint (except reduction in line length and/or number as allowed for in approval) and the installation in accordance with the accepted system approval, without unauthorized product alteration. If permit required use of an Accepted Status System, substitution with another accepted status system may be made, as long as no changes are necessary in the location of each nitrifications line (including any increase in line length), trench depth or effluent distribution method. If changes are necessary, prior approval by this office is required before system installation. Maximum depth of line is calculated using the downhill side of the trench and includes slope correction.

CONSTRUCTION AUTHORIZATION PERMIT VALID FOR: Five Years

CONSTRUCTION AUTHORIZATION PERMIT: **CA STATUS:** Issued **BY:** Adrienne Holloway **DATE:** 01/08/2026

CA VALID FOR: Five Years **DESIGN FLOW:** 480 GALLONS **BASEMENT:** No **BASEMENT FIXTURES:** No

SEPTIC TANK: 1200 GALLONS **SEPTIC TANK FILTER:** Yes
DOSING PUMP TANK: 1200 GALLONS **DOSING PUMP TANK FILTER:**
GREASE TRAP: **GREASE TRAP FILTER:**
RECIRCULATION PUMP TANK: **RECIRCULATION PUMP TANK FILTER:**

PROPOSED SYSTEM: 0.25 - 25% Reduction (Innovative or Accepted) **EXISTING SYSTEM:**
DRAINFIELD SQ. FT: 1,035 **AGGREGATE DEPTH:** 12 **MAX. TRENCH DEPTH:** 36 INCHES

DISTRIBUTION DEVICE: PM - Pressure Manifold
TRENCH #: 3 **TRENCH LENGTH:** 115 FEET **TRENCH WIDTH:** 36 INCHES **TOTAL TRENCH LENGTH:** 345 FEET

CENTER SPACING: 9 FEET **MINIMUM SOIL COVER:** 6 INCHES

PRETREATMENT:

SUBFIELDS #:

PUMP TDH: 13.28 FEET

APPROVAL #:

PUMP DESIGN FLOW: 26.13

ZONE VALVE: No

ASDMS REQUIRED: No

LINE OF CREDIT REQUIRED: No

OPERATOR REQUIRED: No

P.E. SIGN OFF/ASBUILT REQUIRED: No

TRIPARTY AGREEMENT REQUIRED: No

SPECIFIC CONSTRUCTION AUTHORIZATION REQUIREMENTS:

- System designed for a 4 bedroom residence, having 480 gals/day.
- Site serviced by private well water.
- Future Repair is a IIIB - 50% reduction system PPBPS – (Horizontal) type system with a max trench depth of 36" and a 0.35 LTAR
- Any deviation from accepted design must be approved by Wake County ES prior to system installation.
- Property lines required to be clearly marked prior to digging.
- Maintain all required setbacks.
- Please contact WCES – Adrienne Holloway, 919-422-3751 with any questions prior or during install.
- Schedule the septic inspection by calling the Wake Septic Inspection Line at 919-856-7421.
- Depth to limiting condition for Initial area is 62".
- Depth to limiting condition for Repair area is 62".

Issued By:

Adrienne Holloway REHS

Date: 01/08/2026

PRELIMINARY PLOT PLAN FOR

CANTIERE HOMES

LOT 11, LENNOX MANOR

8508 PASCOLO WAY

B.M. 2025, PG. 1341

LITTLE RIVER TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

OCTOBER 23, 2025

Description Quantity Unit



WRP-157985-2025 CA Site Plan

Initial System

(3) 115' x 3' Accepted Status System lines
Pump to Manatee
36" Maximum trench depth
0.35 LTAR
1200 gallon septic tank
1200 gallon pump tank

Repair System

80, 86, 86 PPBPS 50% reduction, horizontal
orientation
Center-fed - Pressure Manifold
36" Maximum trench depth
0.35 LTAR
1200 gallon septic tank
1200 gallon pump tank

100 YEAR BACKWATER
FLOOD EASEMENT
ELEVATION = 347.36'
PER B.M. 2025, PG. 1341

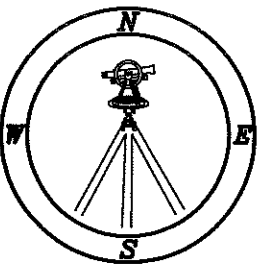
FLOOD HAZARD SOILS
PER B.M. 2025, PG. 1341

(10)*
LENNOX MANORS
SUBDIVISION
B.M. 2025, PG. 1341

IMPERVIOUS SURFACE TABLE	
HOUSE	3,319 S.F.
DECK	72 S.F.
SCREEN PORCH	252 S.F.
DRIVEWAY	1,276 S.F.
SIDEWALKS	341 S.F.
MISC/UTILITIES	18 S.F.
TOTAL IMPERVIOUS AREA	5,278 S.F.
MAX IMPERVIOUS ALLOWED	12,927 S.F.

CHERYL D. WALLACE
D.B. 8679, PG. 98
B.M. 2014, PG. 790
PIN #1798-25-1598

THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.



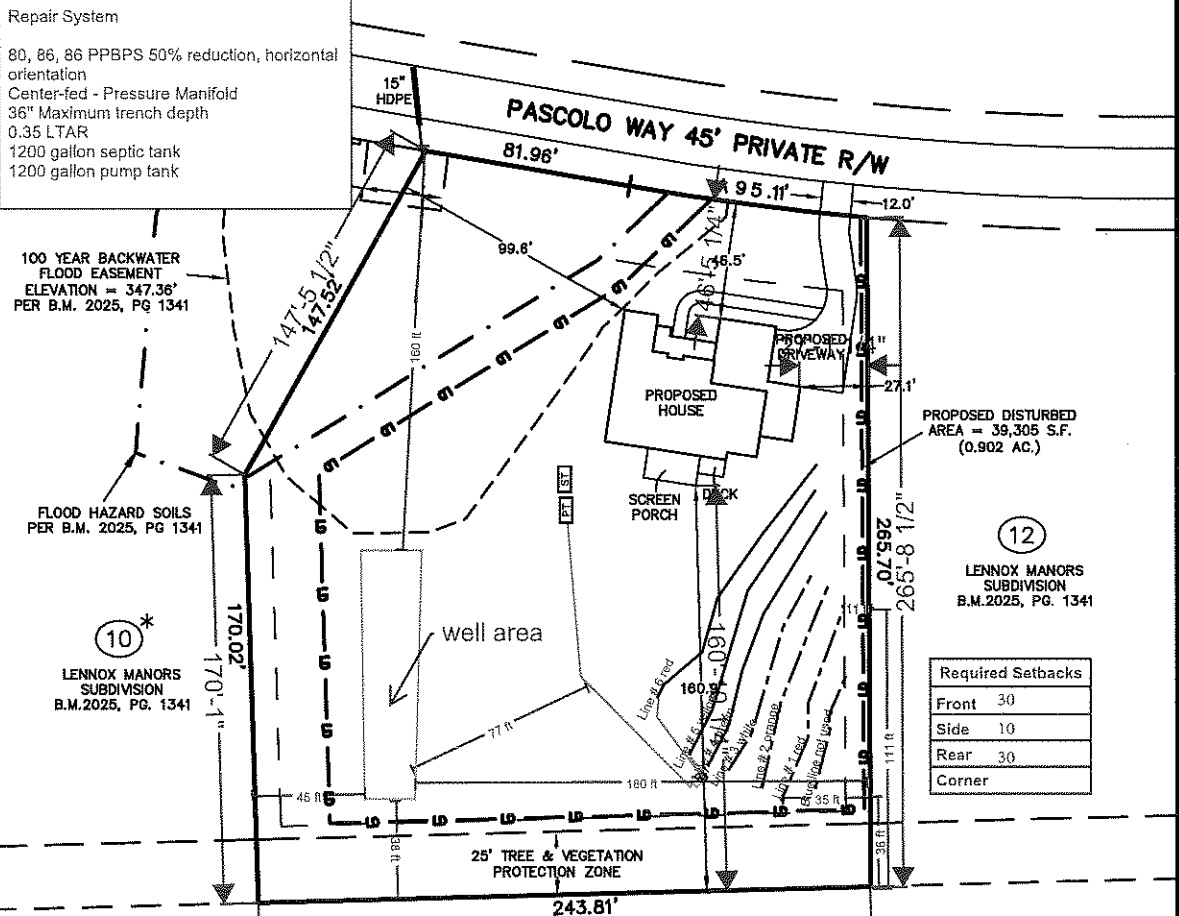
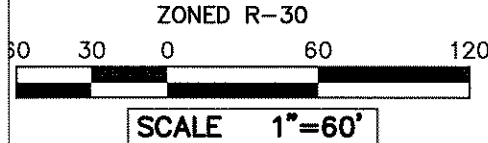
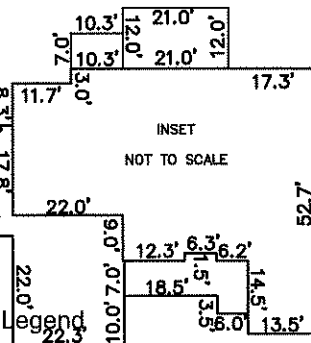
CMP

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:

-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.



Required Setbacks	
Front	30
Side	10
Rear	30
Corner	

**WAKE COUNTY ONSITE WATER PROTECTION
RESIDENTIAL PRESSURE MANI-TEE DESIGN**

Permit # WRP-157985-2025 Address: 8508 Pascolo Way

of BDR: 4 Daily Flow: 480 gal/day Product Accepted

L.T.A.R.: 0.35 gal/day/sq.ft Aggregate Depth: 12

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1035

Number of Taps: 3 Length of Trenches: 115 ft(See Tap Chart for Details)

Depth of Trenches: 36 in Manifold Length: 36 in

Mani-Tee Diameter: 2in sch 40pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 123 ft Diameter: 2 in sch 40pvc

(Friction + Fitting) Loss: 3.12 ft Elevation Head: 8.16 ft

(supply line length + 70' for fittings in pump tank)

Design Head 3 ft Total Head: 13.28 ft

Pump to Deliver: 26.13 gals/min at 13.28 ft head Dosing Volume: 157 gals

Drawdown: 157 gals divided by 20 gals/in = 7.8 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

Bench Mark 7.7 is = 100.0 set at green utility box Design Head: 2

Pump tank elev. 6.83 100.87 Pump elev 95.87 Manifold elev. 104.03

line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)	Spacing of Panels (in)
1	green	4.67	103.03	115	1/2in SCH 4C	8.71	160.00	345	0.4638		
2	yellow	5.25	102.45	115	1/2in SCH 4C	8.71	160.00	345	0.4638		
3	red	5.92	101.79	115	1/2in SCH 4C	8.71	160.00	345	0.4638		
			107.70				#####	0	#####		
Total feet =				345	gal/min =		26.13	LTAR =		0.3500	
Feet Required =				343	Velocity =		2.50	(ltar + 5%)		0.3675	
Total # of Panels (PPBPS)					Des. Flow		480	(ltar w/25% red)		0.4667	
% of Dose Vol.				70	Pump Run=		18.37	(ltar + 5%)		0.4900	
Dose Volume				157	Tank Gal/IN		20				
Dose Pump Time				6.01	Elev. Head		8.16				
Drawdown in Inches				7.85							
Supply Line Length				123							

Comments:

Hydraulic Profile

Mani-tee Elevation	104.03	123
Pump tank elev.	100.87	0
Pump elev.	95.87	0