

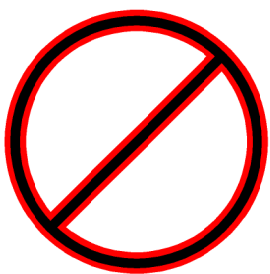
HOR. SCALE:	1" = 50'	DWG DATE:	June 2024	DESIGN:	David Revor
VER. SCALE:	N/A	LAST EDIT:	Jacob Sheffield	CADD:	
REVISIONS					
No.	Δ	REV. DATE:	DESCRIPTION:	BY:	CAD:
	△				



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Rocky Mount, N.C. 27804
Phone: (252) 972-7703

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~~Final Drawings~~
~~Review Purposes ONLY~~



NOT FOR CONSTRUCTION

**STORMWATER PLAN for
GRANVILLE COUNTY: CARPER TRACT
LOT 5 - BUCKEYES WAY SUBDIVISION**

23-078
D-0000
SWM-01

Last Revised 6/11/24

3. This subdivision is a common plan of development per the Granville County stormwater rules that requires stormwater approval. This plan is not a subdivision plan or construction document (ie, does not include road design, lot site plan, erosion control measures, septic, etc.).
2. Boundary and existing site information was obtained plan prepared by Kevin Chance, PLS, Chance Surveying Co., PA, 2/28/24, and supplemented by Granville County GIS.
3. All materials, construction, workmanship shall meet the requirements set forth by Granville County and NCEQ.
4. **ENVIRONMENTAL**
 - a. **FLOODPLAIN:** The property is not within a FEMA flood hazard area per FIRM 3720.1824.00K, 4/16/23.
 - b. **STORMWATER:** Granville County stormwater requirements must be met.
 - i. This site is located within the **Lower Falls Lake Watershed**.
 - ii. The site drains to the south and east into West Prong New Light Creek, 27- -13-0.2 (WV-IV, NSW), and eventually into the Falls Lake portion of the Neuse River.
 - iii. This project complies with runoff volume control and nutrient management (nitrogen/phosphorus) by use of Low Impact Development (LID) methods and SNAP tool 4.2.
5. **STORMWATER PLAN**
 - a. To meet Granville County/ Falls Lake stormwater requirements, maximum impervious areas were determined for each lot. Prior to construction, each lot owner should prepare a detailed site plan for each lot to ensure that the proposed lot layout will meet these requirements. **The maximum impervious areas shown on the charts below may not be exceeded without a revised Stormwater Plan approved by the County.**
 - b. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR EACH LOT, GRANVILLE COUNTY WILL REQUIRE A SEALED **AS-BUILT SITE PLAN** DEMONSTRATING COMPLIANCE WITH THE APPROVED STORMWATER PLAN.
 - c. At its discretion, the County may approve porous pavers, geoweb soil stabilization, or other products as pervious area. Such measures require a revised plan with supporting calculations and is considered a deviation from this stormwater plan.
 - d. At its discretion, the County may accept impervious areas exceeding those shown on this plan if a stormwater control measure (ie, detention pond) is designed, permitted and constructed in compliance with County/NCEQ requirements (including outlet structure, stormwater easement, as-built survey, engineer's certification, maintenance agreement, annual inspections, etc). At a minimum, the proposed stormwater must not result in a net increase in peak flow leaving the site from pre-development conditions for the 1-year, 24-hour storm event. Nutrient management could be handled by the proposed stormwater control measure or by nutrient buy-down payment. **A revised plan with supporting calculations is required for deviations from this stormwater plan.**
6. The following charts demonstrate compliance with stormwater requirements, based on the following assumptions:
 - a. **Roof:** A total of 2,750 sf of total rooftop is provided (including house and additional buildings)
 - b. **Road:** Proposed 320 ft private road assumed to be 18' wide with cul-de-sac (35'R) (road design by others). Most of the road impervious area is included in Lot 5 (in proposed easement).
 - c. **Driveway:**
 - i. Approx. 100 ft of new 10' wide driveway (1,000 sfa) is proposed on each lot.
 - ii. Approx. 1,038 sfa of existing garage driveway will be removed from Lot 5 as shown.
 - d. **Sidewalk:** 30 ft± of 5' wide concrete sidewalk is assumed for each lot.
 - e. **Lawn:** Approximately 0.41± acres of grassed lawn is assumed for each of lot.
 - f. Approximately 0.85± acres will be disturbed for each lot (in the future).

MAXIMUM PERMITTED IMPERVIOUS AREAS (sf)			
	LOT 5	LOT 10	LOT 11
Roof	2,750	2,750	2,750
Sidewalk	150	150	150
Driveway/Road	14,355	2,000	2,500
TOTAL (sf)	17,255	4,900	5,400
TOTAL BUA PERMITTED (sf)			27,555

PRE-DEVELOPMENT CONDITIONS								
Description	Lot 5 (sf)	Lot 5 (ac)	Lot 10 (sf)	Lot 10 (ac)	Lot 11 (sf)	Lot 11 (ac)	Total (sf)	Total (ac)
Wooded	153,779	3.53	108,918	2.500	108,212	2.484	370,909	8.515
Impervious	5,000	0.11	-	-	-	-	5,000	0.11
Lawn	9,000	0.21	-	-	-	-	9,000	0.21
Total area:	167,779	3.852	108,918	2.500	108,212	2.484	384,909	8.836

POST-DEVELOPMENT CONDITIONS								
Description	Lot 5 (sq ft)	Lot 5 (ac)	Lot 10 (sq ft)	Lot 10 (ac)	Lot 11 (sq ft)	Lot 11 (ac)	Total (sq ft)	Total (ac)
Wooded	132,524	3.04	86,610	1.97	84,612	1.95	303,754	6.96
Impervious: Road	1,455	0.03	2,000	0.05	1,500	0.04	18,355	0.43
Impervious: S/W	150	0.00	150	0.00	150	0.00	450	0.01
Impervious: Roof	2,750	0.06	2,750	0.06	2,750	0.06	8,250	0.19
Lawn	18,000	0.41	18,000	0.41	18,000	0.41	54,000	1.24
Total acres:	167,779	3.852	108,918	2.500	108,212	2.484	384,909	8.836

LAND SURFACES			
Description	Existing (ac)	Post-Dev (ac)	Post-Dev (sf)
Wooded	8.51	6.96	303,354
Impervious	0.11	0.63	27,555
Lawn	0.21	1.24	54,000
Total:	8.836	8.836	384,909

LOCATION INFORMATION

Address:	75659 Larper Court	
City:	Wake Forest	
County:	Granville	
State:	NC	
Tract Acreage	8.84 ac	
Zone	AR-40	
Min. Building Setbacks:		
Front	50 ft	
Side	15 ft	
Rear	25 ft	
Granville County Map #:	182400888237	
Deed Book/ Page	1807/ 213	
Latitude/ Longitude:	36.078865, -78.564890	
Area Disturbed:	17,500 sq ft for private road construction	

Steven D. Wheeler, Jr
3220 Purnell Road
Wake Forest, NC 27587
919-413-4080

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These plans are for bidding purposes only and are not to be used as Construction drawings unless initialed and dated as approved for Construction below by the Engineer.

Approved for Construction: _____ DATE: _____

BOUNDARY DESCRIPTION SHOWN
IS NOT FOR RECORDATION.

RECORD DRAWINGS:

These drawings are believed to be a correct representation of actual field conditions but are not warranted as such.

CONSTRUCTION SAFETY

These drawings do not contain the requirements for job safety. All provisions for safety shall be the sole responsibility of the contractor.

EXISTING CONDITIONS:

The contractor shall be responsible for reviewing all existing job conditions. Any adverse existing conditions affecting work shown on these drawings shall be brought to the attention of the engineer for possible clarification or reconciliation.

ADA AND LEGAL DISCLAIMER

This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.