

From: [Rob Gordon](#)
To: [Genna Porter](#)
Subject: FW: TRC Review - Ellington Farms
Date: Wednesday, March 19, 2014 7:56:56 AM
Attachments: [image003.png](#)

Please upload these comments to protrak. Thanks.

Robert Gordon, PE
Project Engineer
City of Wilmington/Engineering
(910) 341-5856

From: Rob Gordon
Sent: Wednesday, March 19, 2014 7:56 AM
To: Garry Pape (gpape@gsp-consulting.com)
Cc: 'Derek Pielech'; 'Jeff Walton'
Subject: TRC Review - Ellington Farms

Engineering has reviewed the initial plans for Ellington Farms and have the following TRC comments:

1. The project is proposing in excess of 10,000 sf of impervious area and will require a stormwater management permit. Please submit a complete stormwater permit application to Engineering, including all required forms, calculations and a \$1,000 review fee.
2. The stormwater management system shall attenuate the peak run-off produced by the two (2)-year, ten (10)-year, and twenty-five (25)-year frequency design storms to predeveloped conditions (woods in good condition).
3. All stormwater control systems must be designed to treat the stormwater runoff from all surfaces generated by one and one-half (1 ½) inches of rainfall for water quality purposes. All structural stormwater treatment systems used to meet these requirements shall be designed to the standards outlined in the State BMP manual and shall provide eighty-five percent (85%) average annual removal for total suspended solids (TSS).
4. Privately owned and maintained on-site conveyance systems shall be designed at a minimum to convey the ten (10)-year storm event.
5. Please be sure to include appropriate tailwater condition on the storm drainage analysis.
6. Please include inlet and BMP drainage area maps with the analysis or within the plan set.
7. Offsite drainage area delineation and culvert analysis will be required for the proposed culvert. No analysis is required for the proposed driveway culvert. Gordon Rd is an NCDOT road and the driveway culvert will be reviewed by them.
8. The outlet for the Western Pond is not specified. Please make sure it is downstream of any existing on-site culvert crossings – specifically the two twin CMP culvert crossings on the North stream.
9. There appears to be very little embankment between the pond and the stream/ditch channel on the North side of the (Eastern) pond. Also, please try and angle that outfall pipe more in the direction of the stream, if possible.
10. Please provide a copy of the soils report indicating the SHWT in the vicinity of the pond areas.

11. Please make sure the Stormwater Management Plan Approval Stamp is include on each sheet in the plan set.

These comments will be uploaded to protrak. Please call or email if you have any questions.

Robert Gordon, PE
Project Engineer

City of Wilmington, Engineering Division
212 Operations Center Drive
Wilmington, NC 28412
Office: (910) 341-5856 | Fax: (910) 341-5881
Email: rob.gordon@wilmingtonnc.gov
www.wilmingtonnc.gov



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