

Engineering has reviewed the plans for the Wilmington Infiniti project submitted February 26, 2020 and have the following comments:

Stormwater Management Permit Application Form:

- 1) IV. Project Information; Line Item 7 – 8: It looks like many of the trailers are to remain at the rear of the property. This seems to be much more impervious surface to remain than 3,095sf. Please clarify.
- 2) IV. Project Information; Line Item 12: Please update if sidewalk is to be installed along Market Street.
- 3) IV. Project Information; Line Item 14: Clarify the 3,095 sf of existing to remain. Do not include with Future allocation please break it out separately to avoid confusion. Credit will be given for removal when future development occurs.
- 4) VIII. Applicant’s Certification: Provide applicant signature and notary.

Stormwater Calculations:

- 5) Update calculations and/or Future Allocation if existing impervious to remain changes. As stated above there looks to be much more existing impervious (trailers/buildings) to remain than 3,095 sf.
- 6) Stage-Area Storage Calculations: the forebay (3,948 sf) + main pool (14,922 sf) at elevation 32.5’ (permanent pool) do not equal 20,518 sf.
- 7) Stage-Area Storage Calculations: Update 37’ contour area to match routing calculations.
- 8) Include outfall piping as part of pipe data table. HGL calcs for this section not necessary.

Supplement

- 9) Provide NCDEQ Supplement EZ for proposed Wet Pond.
<https://deq.nc.gov/about/divisions/energy-mineral-land-resources/energy-mineral-land-permit-guidance/stormwater-bmp-manual>

O&M

- 10) Provide current City Wet Pond O&M.
<https://www.wilmingtonnc.gov/departments/engineering/plan-review/stormwater-permits>

Plans:

- 11) General Notes (C-1.0): Please clarify why it is stated “No Wetlands flagged or surveyed on the property”, but Existing Conditions show an isolated wetland.
- 12) Is a wetland permit needed for this disturbance?
- 13) Site Plan (C-2.0): Provide 30’ Drainage Easement Agreement with adjacent property owner, Mitchell Family LLC.
- 14) Site Plan (C-2.0): Site Data Table – update square footage for 2.8 acres.
- 15) Site Plan (C-2.0): Add total site existing impervious surface to data table. These values should match the application IV. Project Information; Line Items 6-8.
- 16) Grading Plan (C-4.0): Note any future BUA allocation must be captured and routed through the forebay.
- 17) Grading Plan (C-4.0): To minimize land disturbance, sheet flow to proposed wet pond from existing mobile home park area is acceptable. Excelsior matting and/or additional stabilization may be needed from top of bank to vegetative shelf to prevent sedimentation of the main pool.
- 18) Grading Plan (C-4.0): Show Wet Pond outfall piping on pipe schedule.
- 19) Storm Details (C-5.2): Wet Pond Detail – show correct pond depth of 6.5’.

Public Improvements:

- 20) Public improvement sidewalk is required to be installed along Market street frontage. Please coordinate installation with NCDOT TIP for location. However, it is recommended that a payment in lieu be paid to avoid coordination and construction issues with future NCDOT improvements. If payment in lieu is to be made a cost estimate will need to be submitted for approval.

Variances:

- 21) Provide written technical variance for 75' driveway offset from property line.
- 22) Provide written technical variance for 62' max driveway width at tie-in point / gutter flow line.

Please submit revised plan sheets, revised application pages, supplement, calculations, and any other documentation to Engineering for additional review. Please call or email if there are any questions.