

From: [Rob Gordon](#)
To: [Genna Porter](#)
Subject: FW: Eng review - Handee Hugo
Date: Tuesday, April 01, 2014 2:12:34 PM
Attachments: [image002.png](#)

Please upload these comments to protrak – thanks.

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

From: Rob Gordon
Sent: Tuesday, April 01, 2014 1:55 PM
To: 'Ray Watson'
Cc: Derek Pielech; Jeff Walton
Subject: Eng review - Handee Hugo

Engineering has reviewed the plans for the Handee Hugo's expansion and have the following comments:

1. Please delineate and annotate the inlet and BMP drainage areas. It can be added to one of the existing sheets in the plan set or added as a sheet to the calcs (most just submit an attachment with the DA's highlighted in the calcs)
2. You appear to have shown the calc for the new pipe that will be installed in the parking lot between the two inlets. Please demonstrate that the existing pipe into the pond from the parking lot can pass the flow.
3. Please complete the BMP information for the pond on the application (Sect. IV-14; p 4).
4. The signature section of the application is not completed correctly. Lee McDowell would sign as the applicant on page 7 and a representative from ALH (the property owner) would sign on p6. You do not have to sign the application as the consultant (only the plans and calcs). Also, please note the signing official of the property owner on p2 of the application.
5. The bottom width and side-slope of the reconstructed BMP must be specified. Please either specify or provide a detail.
6. The discrepancy in elevations may be a concern. Were you or your surveyor able to find a reason? The bottom of the pond on the original plans was 45.5; the top of dam was 48 for a total depth of 2.5'. The 10-yr WSE was modeled at 47.5, or 2' depth. The FFE of the building was supposed to be 49.0, well below the modeled 100-yr WSE of 48.0. The new bottom is set at 39.5. The top of dam is not directly stated, but appears to be around 41.5 – only 2' deep. The FFE of the building appears to be safely above the pond at around 43.2-43.5 (from adjacent sidewalk elevations), but pond contours appear to intersect the back of the building at around 41.5-42.0. Please address this concern – it may be the contours do not truly represent what exists, but we would prefer the pond not rise & fall on the foundation of the building in any storm.

Please resubmit one copy of plans, calcs and any revised forms for final engineering review. Please call or email if you have any questions. Thank you.

Robert Gordon, PE
Project Engineer

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