

MEMORANDUM

TO: Kyle Sobota, Senior Planner

FROM: Kirby Templin, Water Resources Engineer, PE

SUBJECT: Countryside 2nd Addition – Stormwater Review Comments - 1

DATE: March 26, 2018

This memo summarizes the stormwater review comments for Countryside 2nd Addition.

The following documents were submitted for review:

- 180206_Countryside_SWMP - Storm Water Management Plan, Dated 2-6-2018
- COUNTRYSIDE 2ND ADDITION 11X17 - Engineering, Dated 2-7-18

General Stormwater

1. Provide a comment response memo.
2. Provide a geotechnical report.
3. Label the proposed basin with a basin ID, the NWL, and the HWL on the plans.
4. Route all proposed impervious area to the infiltration basin. If it is not feasible to route impervious area to the infiltration basin, Include the reasons/discussion in the SWMP that addresses why it is not feasible.
5. The infiltration basin must provide a water quality volume (calculated as an instantaneous volume) of 1-inch of runoff. The proposed basin appears to not provide this water quality volume as the plans show the outlet of the proposed basin at the basin bottom. The maximum infiltration depth is 18-inches. Update the basin and outlet to meet this requirement.
6. Include a pretreatment forebay at the inlet to the infiltration basin. The pretreatment forebay area cannot be included in the infiltration surface area that is required for drawdown within 48 hours.
7. Provide a skimming outlet for the proposed basin.
8. There is offsite run-on (from the southwest) that is routed to the proposed infiltration basin. This area is not included in the basin modeling. Update model and storm sewer sizing to include this run-on area.
9. There is a large drainage area contributing to the site from the southwest. The plans show a plan to bypass the run-on through a temporary 42" Pipe. Show that the proposed plan will not cause adverse impacts to the adjacent property owner by backing up flow and causing an increase in ponding on the adjacent property. Calculate the HWL for this adjacent ponding area. Include a temporary easement covering the ponding area on adjacent property.
10. Separation Concerns. The lowest floor elevation must be 2 feet above the 100-year high surface water elevation for the area unless it can be demonstrated that this standard

creates a hardship. Adjust proposed low floor elevations and/or provide additional analysis to demonstrate low floor elevations have at least 1-foot separation above highest anticipated groundwater elevation resulting from the 100-year event. The following proposed structure elevations do not meet this requirement.

- a. Block 1, Lots 1, 2, 3, 4, 5.
 - b. Block 2, Lots 1, 2, 3, 4, 5, 6.
 - c. Block 4, Lots 2, 3, 4, 5.
11. There is a concern with the proposed infiltration basin elevation and the adjacent existing lots of Block 3 of the first addition (to the east). Provide additional analysis demonstrating low floor elevations have at least 1-foot separation above highest anticipated groundwater elevation resulting from the 100-year event.

Modeling

12. Change the advanced calculation setting to calculate separate Pervious/Impervious runoff.
13. The modeled outlet does not match the plans. Verify which is correct and update accordingly. Update outlet as needed based on other comments.

Storm Sewer

14. Provide storm sewer sizing calculations
15. Move CBMH 9 and 8 closer to intersection of Cubasue Court.