



Cortland County Soil and Water Conservation District

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www.cortlandswcd.org

SWCD - Celebrating 70 years of promoting the conservation and wise use of our county's natural resources

August 7, 2018

Bruce Weber, Planning and Zoning Officer
Town of Cortlandville
3577 Terrace Road
Cortland, NY 13045

Re: Starrlite Ridge Residential PUD

Dear Mr. Weber:

We have reviewed the modified SWPPP and design sheets for the Starrlite Ridge Residential PUD dated July 2018, received in our office Wednesday, July 25, 2018, and including the response to comments letter sent by the design engineer, Tim Buhl, P.E. to Planning Board Chair Katherine Wickwire, dated July 23, 2018.

The additional materials included documentation of a new HydroCAD model run completed by Tim Buhl, with the modification that the infiltration rate of the infiltration basin be set at 2 inches/hour rather than at 10 inches/hour in the previously submitted model run. This more conservative rate reflects our concern that infiltration is likely to be reduced: 1) under freezing conditions, 2) after inevitable sedimentation, 3) through the vegetated soil layer and 4) in response to potential groundwater mounding.

Based on a preliminary review of the model run results, it appears that the stormwater structures proposed for the site will meet the requirements of Cortlandville's stormwater ordinance including consistency with the NYS Design Manual and Standards and Specifications Manual (Blue Book). Even with the reduced infiltration rate in the basin, peak runoff from the site would be significantly lower than current conditions (2.2 cubic feet per second (cfs) compared to 16.6 cfs).

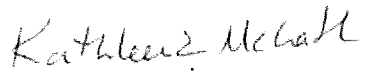
Our review is limited to the Starrlite Ridge PUD site and does not consider the larger question of stormwater management in this area of Starr Road, which currently represents a stormwater challenge. Properties adjacent to the proposed Starrlite Ridge development have experienced flooding in the past and are likely to continue to be vulnerable in future unless the larger problem is addressed.

With any project it is important that facilities be constructed as designed and maintained as required. With this project, if approved, it will be particularly important that all stormwater and related structures be installed as or consistent with the intended design and that as-built plans are

provided by the design engineer as testament to proper construction. In addition, maintenance consistent with the requirements of the SWPPP will be critical to long-term performance.

Please call me at 756-5991 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Kathleen E. McGrath".

Kathleen E. McGrath
Water Quality Specialist

Cc: Amanda Barber, Cortland SWCD