

March 24, 2017

William & Renee Wahlin
2763 Esquire Drive
Stoughton, WI 53589

**RE: Wahlin Proposed Residential CSM, Preliminary Review
(Town of Christiana)**

Dear Mr. and Mrs. Wahlin:

I have reviewed the preliminary site plan (Dwg. # 4971-16, dated 12/21/2016) prepared by Wisconsin Mapping, LLC. as part of the preliminary review process found in Chapter 14, Dane County Code of Ordinances (DCCO). The proposed development on Lot 2 includes a driveway, single family residence and shed. This development will result in land disturbing activity and the addition of approximately 20,200 sq. ft. of impervious surface to the site.

Per §14.45 and §14.46 DCCO this development will require Erosion Control and Stormwater Management Permits from this office. The following points will need to be addressed in the final erosion control and stormwater management plan:

1. An erosion control plan designed to limit soil loss to the 7.5 ton/acre/year soil loss standard will need to be submitted. Limiting the disturbed area and the duration of soil exposure will be key elements in the plan.
2. Stormwater will need to be managed on the site for runoff volume, quality, and peak discharge. A stormwater management plan designed to achieve the following performance standards will need to be submitted:
 - a. 80% reduction in TSS for the 1-year 24-hour storm event
 - b. Infiltrate 90% of the average annual predevelopment infiltration volume
 - c. Maintain predevelopment peak discharge rates for the 1, 2, 10 and 100-year 24-hour storm events.
3. A stable outlet must be provided. Calculations documenting that conveyances or outlets have adequate capacity and stability for the designed flow rates will need to be provided.

4. Once the permanent stormwater facilities have been constructed, as-built record drawings must be submitted. These plans are required to be completed by the design engineer and must show that the stormwater facilities were constructed as approved in the plan.

It is my opinion that the erosion control requirements of Chapter 14 DCCO can be met with a properly designed erosion and sediment control plan. However, it is not clear how runoff from impervious surfaces will be captured and routed to a treatment device or where those devices will be located. Locating stormwater management practices within the narrow corridor of a flag lot can be problematic due to the lack of available room to do so. A conceptual stormwater management plan will need to be submitted before I can reasonably state that stormwater management performance standards can be met for the proposed development.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeremy Balousek". The signature is fluid and cursive, with a large initial "J" and "B".

Jeremy Balousek, P.E.

Cc: Roger Lane, Dane County Zoning Administrator (email)
David Riesop, Wisconsin Mapping, LLC (email)
Tom Dybevik, Stark Homes (email)