

Stormwater Management Design – Van Holten's Proposed Tankyard in Town of Medina

Purpose: Inform Town of Medina and its residents regarding two questions that arose during the August 27, 2024 Town of Medina Plan Commission meeting:

1. Explain the stormwater system, and the standards it was designed to fulfill, plus
2. Can the stormwater be moved south?

Explanation: The Site Plan provided to the Town August 22, 2024 incorporated Dane County feedback from the July 25, 2024 submission. Several facts follow:

1. The stormwater facilities (proposed wet basin, proposed infiltration basin, and conveyance swales) are sized to accommodate the maximum facility build-out of 500 tanks, buildings, and associated gravel drives. The goal was to maintain existing drainage patterns. Stormwater runoff is routed first to the wet pond, then to the infiltration basin before discharging to the right of way on the south side of Canal Road.
2. These proposed facilities meet Dane County and the State of Wisconsin Stormwater Management requirements, these include:
 - a. Match pre-developed peak runoff rates in the post-developed condition for the 1, 2, 10, 100, and 200-year, 24-hour storm events.
 - b. Infiltrate 90% of the pre-developed infiltration volume based on the average-annual storm event.
 - c. Control the total suspended solids (TSS) carried in runoff from the post-development site by 80%

Regarding moving the stormwater facility to the south, the proposed system could be shifted south 5-10 ft. Shifting stormwater to the southwest (SW) corner could not occur because it would be impossible to grade the site so that it captures all of the stormwater runoff and route it to a higher elevation location on the parcel.