



McChord Engineering Associates, Inc.

Civil Engineers and Land Planners

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January 7, 2021

Frank Smeriglio
Asst. Director of Public Works/Town Engineer
Town Hall Annex – 238 Danbury Road
Wilton, CT 06897

Re: Response to Engineer Comments
WET #2663(s) Davis-Chen
105 Nod Hill Road, Wilton, CT

Dear Mr. Smeriglio:

This letter is in response to engineering comments received by McChord Engineering Associates, Inc. on December 16, 2020. All responses are in reference to the attached revised documents completed by this office, listed below.

- “Septic System/Site Development Plan”, Sheet SE1, last revised January 6, 2021
- “Construction Notes and Details”, Sheet SE2, last revised January 7, 2021
- “Stormwater Management Report”, last revised January 7, 2021

1. Please provide calculations for the existing and proposed time of concentration (t’c). It appears that the proposed t’c should not be slower than the existing t’c.

Response – *We analyzed the existing and proposed t’c paths for the undetained areas and have updated them in the Stormwater Management Report. The existing and proposed t’c paths are now the same amount of time. The proposed t’c path was revised to not include the flattened area around the proposed residence which resulted in the longer time span.*

2. Please provide a basin map showing drainage areas and time of concentration path for existing and proposed conditions.

Response – *Existing and proposed drainage basin maps (with time of concentration paths) have been added to the Stormwater Management Report in Appendix A.*

3. 2 catch basins, manhole and 15” HDPE pipe are proposed to be installed in the Town Right of Way for private driveway purposes. All shall be shifted back onto private property and not on Town Right of Way area.

Response – *As discussed over email, the drainage structures and piping will remain in the town right-of-way and will be maintained by the private property owner. The Stormwater Facilities Maintenance Plan in Appendix C of the Stormwater Management Report has been updated to reflect this and shall be filed in the land records.*

4. It appears that based on the proposed slope of the driveway and proposed type of catch basin tops, the tops may not capture all of the storm runoff and will overflow into the road, modifications shall be made (either add more cb's along the driveway and/or modify the types of cb tops near the road).

Response – *We have addressed this concern by implementing a drain pocket to better capture the driveway runoff and improve the inlet capacity of the basin top by creating a head above it. The drains will be set in the driveway shoulder against a curb in a slight depression. A detail showing this has been added to sheet SE2. We have had success with this on steep driveways on past projects.*

5. Drywells are proposed along the driveway with no calculations and/or tests pits supporting the use. Engineer to address.

Response – *The drywells are not designed to use any infiltration. They will serve to provide additional storage for runoff collected by the drain tops. The drywells were a recommendation by DPW when the driveway was originally designed.*

6. A proposed wall is shown on the uphill side of the driveway. Measures shall be included to capture ground water from behind the wall and discharge into the catch basin. This is to prevent potential groundwater flow into the road.

Response – *We have added a 4" perforated PVC pipe behind the wall as shown on sheet SE1. This pipe will discharge into the driveway drains.*

7. Prior to construction, a road opening permit/driveway permit is required.

Response – *Noted.*

8. Coordinate any proposed tree removal in the Town Right of Way with Wilton's Tree Warden prior to removal.

Response – *Noted.*

9. Prior to the issuance of a certificate of occupancy, the design engineer shall provide a certification letter signed by a Professional Engineer licensed in the State of Connecticut indicating that all construction is completed in accordance with the design plans. A certified as-built drawing shall be submitted with the letter.

Response – *Noted.*

Sincerely,



Harry Rocheville, E.I.T.
Senior Engineer

Cc: Mike Conklin, Director of Environmental Affairs
Inland Wetlands Commission

Attachments