

March 18, 2022

Matt D'Alessandro, District Manager
Somerset-Union Soil Conservation District
308 Milltown Road
Bridgewater, New Jersey 08807

Re: 189 & 203 Homestead Road
Block 200.10, Lots 32 & 33
Hillsborough Township
Somerset County, New Jersey
Application Number: 2021-5102

Dear Mr. D'Alessandro:

On behalf of the applicant, Homestead Road, LLC, I am herewith transmitting the following information for review and approval by the Somerset-Union Soil Conservation District in response to the review letter dated December 28, 2021, which deemed the initial application incomplete:

1. Two (2) sets of the Detailed Grading, Drainage, Utility & Soil Erosion Plans (Sheets 5, 5a, 5b & 5c) and the Soil Erosion & Sediment Control Details (Sheet 20) prepared by Van Cleef Engineering Associates, LLC (Van Cleef), dated December 21, 2021 and last revised March 17, 2022.
2. One (1) set of the Hydrologic Modeling Database Form prepared by Van Cleef.
3. One (1) copy of the Riprap Apron Data Sheet prepared by Van Cleef, dated November 17, 2021.

Listed below are the responses to Mr. Serafino's comments in his review dated May 5, 2021:

- A. The Hydrologic Modeling Database Forms for each basin are included with this submission.
- B. The Disturbance Limits have been added to the proposed utilities along Homestead Road on Grading, Drainage, Utility & Soil Erosion Plans on Sheets 5a and 5c.
- C. Inlet Protection has been added to the Grading, Drainage, Utility & Soil Erosion Plans on Sheets 5a and 5b.
- D. In the detail chart on Sheet 20 for triangular apron, the calculated D_{50} stone sizes are all under 2". When multiplied by 3 to calculate the depth of the riprap, the amounts are all

OFFICE LOCATIONS

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Lebanon, NJ
908-735-9500

Hamilton, NJ
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732-303-8700

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610-332-1772

Hillsborough, NJ
908-359-8291

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below 6". The Standards for Soil Erosion and Sediment Control in New Jersey Page 22-2 states that the minimum depth is 6", so that is what we use in the chart. Please note that these aprons are within stormwater detention basins and as such the tailwater at the time of peak flow is significantly high, cutting the inflow velocities way down. The D₅₀ stone size for the OS-2B scour hole is now shown as 1".

Please review the enclosed information and contact me should you have any questions.

Sincerely,

Michael K. Ford

Michael K. Ford, PE
Principal/Branch Manager

MKF/wsc
Enclosures

Cc: Eric Greif, Homestead Road, LLC (w/encl via email)
Michael P. O'Grodnick, Esq. (w/encl via email)
Hillsborough Township Planning Board (w/encl via email)