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June 22, 2018

To: Kathleen Sullivan, Planning Board Chairperson, Hastings-on-Hudson, NY

CC: James J. Hahn, P.E., James J Hahn Engineering, P.C.

Re: Site plan revisions
Owner/Applicant – Prokop & Bindler
Village of Hastings-on-Hudson, NY

To whom it may concern;

MCE has reviewed and revised the Plans, details and specifications produced by this office as per the letter submitted by James Hahn on 6/19/2018. What follows is an itemized list of the comments with responses.

1. A detailed description of the existing drainage system should be provided. Any existing stormwater facilities should be shown and should include sizes and invert elevations.
 - a. At the time of this letter there is no other stormwater facilities nor drainage structures/systems on site. A similar note can be found on SW-1 below the Stormwater Plan
2. Location of all existing and proposed roof leaders and downspouts should be provided.
 - a. See updated Impervious Surface Partial Plan
3. The 24-Hour, 100-year storm event should be used in the drainage calculations.
 - a. See updated SW-2 specifications
4. The proposed increase in impervious surface on SW-2 conflicts with the information on G100. This should be reviewed and revised
 - a. See updated SW-2 specifications
5. The terms “retention” and “detention” are both used to describe the stormwater mitigation system. This should be revised.
 - a. All mention of the stormwater mitigation system reads as “retention”

6. The infiltration system must not be connected until construction is complete and the site is stabilized, A note, stating as much, should be added to the plans
 - a. See updated SW-2 specifications
7. The Cultec Section 2 detail shows a 12-inch diameter pipe entering the system. This conflicts with the 4-inch shown on the plan and 8-inch on the detail. The plans should be revised as required.
 - a. All piping has been upsized to 6" all details and plans follow the upsized diameter. Note, the 8" dimension is not an indication of pipe size but of minimum insertion length of pipe into the Cultec system.
8. Six-inch minimum diameter pipe should be used.
 - a. All piping has been upsized to 6" all details and plans follow the upsized diameter.
9. A detail for the distribution box should be provided and should depict a two (2') foot minimum sump for pre-treatment. It should also have access from the exiting grade for maintenance.
 - a. See the updated SW-2 for distribution box detail.
10. A manhole, drain inlet or cleanout should be provided at all pipe bends. We recommend reconfiguring the system with a header to avoid bends. Alternate configuration with the infiltration units installed linearly and parallel to the slope should be considered to avoid additional structures and limit the bury depth.
 - a. See updated SW-1 for reconfigured layout which eliminates all pipe bends. See SW-2 for updated profile of system.
11. Inspection ports should be shown for the infiltration units and a detail should be provided. They should be located as recommended by the manufacturer.
 - a. See updated detail on SW-1
12. The area of the proposed infiltration system should be protected from over-compaction during construction. The area should be fenced off during construction or the area should be de-compacted prior to installation of the infiltration units.
 - a. See updated SW-1 layout for fencing requirements as well as note indicating that the area shall not be over compacted.
13. Pre-treatment should be provided.
 - a. See Distribution box detail on SW-2.
14. An emergency overflow should be provided at the pre-treatment basin (DB-1).
 - a. See Distribution box detail and system section on SW-2 in addition to notes on SW-1.

15. Maintenance notes should be provided at the post-stormwater management practices.
 - a. See updated specifications on SW-2.
16. Proposed location, size, design and use of all temporary structures, storage areas, and staging areas to be used during the course of construction should be shown.
 - a. See updated Stormwater Plan on SW-1, note, no temporary structures are anticipated for the construction to occur on-site.
17. Location of the construction entrance and detail should be provided. It is not clear how a contractor will access the rear yard to install the system.
 - a. See updated Stormwater Plan on SW-1 with accompanying notes.
18. Standard engineering scales (i.e. 1"=20', 1"=30', 1"=40', 1"=50') should be used on drawings showing a plan view of the site. Graphic scales should be provided to confirm scale.
 - a. See updated plan notation on SW-1.
19. A north arrow should be shown on any drawing showing a plan view of the site.
 - a. See updated Stormwater plan on SW-1.
20. The following notes should be shown on the plans:

"The Building Inspector or Village Engineer may require additional erosion control measures if deemed appropriate to mitigate unforeseen siltation and erosion of disturbed soils."

""As-Built" drawings of the site improvements shall be submitted to the Village Engineer for review prior to obtaining Certificate of Occupancy."

"Infiltration system access ports shall be shown on the "As-Built"."

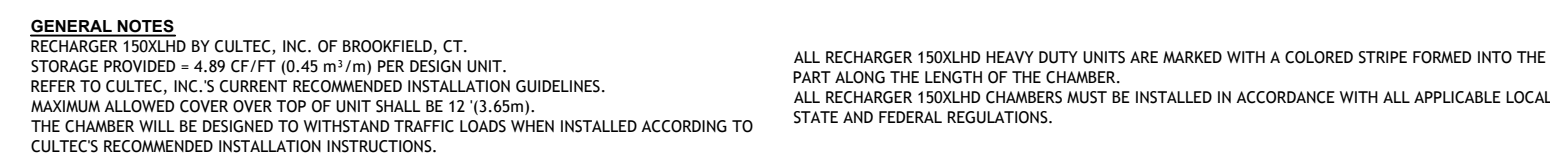
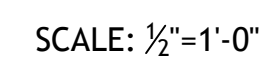
 - a. See updated notes on SW-2

If you have any questions or comments, please contact our office.

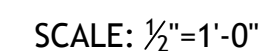
Regards,



Zach Marchetti P.E.
Marchetti Consulting Engineers



SCALE: $\frac{1}{2}"=1'-0"$



Drawings and Specifications, as instruments of professional service, are and shall remain the property of the Engineer. Documents are not to be used, in whole or in part, for other projects or purposes or by any other parties than those authorized by contract without the specific written authorization of the Engineer. The use of this document is contingent upon payment to the engineer for services rendered. No part shall be used for any other project or for any other document use by any and all parties. If owner disputes any Engineer's statements for services, it is required that the owner advise the engineer in writing with ten (10) days. Remaining, undisputed portions are due and payable upon receipt. The owner shall indemnify the Engineer against any claims alleging damages or delays incurred in the event the Engineer exercises the right to suspend or stop work. The Engineer and its workers must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported immediately to the Engineer before proceeding.

[illegible]

STAMP & SIGN:

SCALE: AS NOTED

- THIS PLAN SHOWS AN ADDITION TO THE EXISTING RESIDENCE AND INCLUDES STORM WATER DESIGN FOR A WATER QUANTITY VOLUME AS DICTATED BY APPROPRIATED TOWN AGENCIES. THE DESIGN IS BASED ON RETAINING THE RUNOFF OF RAINFALL FOR A 100 YEAR STORM:

- GUARANTEE ALL WORK FOR 1 YEAR AFTER COMPLETION



SCALE: NTS



SCALE: 1"=5'-0"



RIP-RAP ENERGY DISSIPATER



SIDE VIEW
(WALL THICKNESS IS 1½")

SCALE: 1½"=1'-0"

Drawings and specifications, as instruments of professional service, are and shall remain the property of the Engineer. Documents are not to be used, in whole or in part, for other projects or purposes or by any other parties than those authorized by contract without the specific written authorization of the Engineer. The use of this document is confined to the project and the parties to the contract.

Non-payment shall give the Engineer the authority to bar document use by any and all parties. If owner disputes any Engineer's statements for services, it is required that the owner advise the engineer in writing with ten (10) days. Remaining, undisputed portions are due and payable upon receipt. The owner shall indemnify the Engineer against any claims alleging damages or damages to his document or to the Engineer's facilities resulting from the use of the document for non-payment. Contractors must check all dimensions on site. Only Engined dimensions are to be worked from. Discrepancies must be reported immediately to the Engineer before proceeding.

[illegible]

STAMP & SIGN:

PROKOP-BINDLER
41 JEFFERSON AVE
HASTINGS-ON-HUDSON, NY 10706

STORMWATER SECTION, DETAILS, AND SPECIFICATIONS

PROJECT NUMBER:	2017-76
DATE:	5-14-18
DRAWN BY:	ZTM
CHECKED BY:	ZTM

SW-2

SCALE:	AS NOTED
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