



851 Chemung Street
Horseheads, New York 14845

December 16, 2016

Mr. Tom Skebey, Code Enforcement Officer
Town of Horseheads Code Enforcement Department
150 Wygant Road
Horseheads, New York 14845

**Re: Fairport Ridge Planned Unit Development
Horseheads, New York
Review of Stormwater Management Plan**

Mr. Skebey:

I have completed a review of the following submitted information for the above-referenced project regarding the Stormwater Pollution Prevention Plan (SWPPP) and stormwater management system design for that project.

- SWPPP for the Fairport Ridge Planned Unit Development, Stamped by a NYS Licensed Professional Engineer, Prepared by Fagan Engineers & Land Surveyors, P.C., Dated November 2016, Received November 22, 2016
- FINAL PRINTS Site Plan Drawings for the Fairport Ridge Planned Unit Development, Stamped by a NYS Licensed Professional Engineer, Prepared by Fagan Engineers & Land Surveyors, P.C., Revision Dated November 1, 2016, Received on November 22, 2016

My review comments and questions regarding the SWPPP and stormwater management system for the above-referenced project, based upon the submitted information, are as follows.

STORMWATER COLLECTION & CONVEYANCE

1. In regards to the proposed drywells at the entrances of the proposed private drive onto Prospect Hill, the following items are noted.
 - Each component of the drywell shall meet HS-20 loading requirements. Appropriate documentation shall be provided, as well as appropriate notes added to the detail.
 - The height of the drywell barrel shall be 8 feet. The diameter of the barrel shall be 8 foot.
 - A catch basin with a 3-foot sump and trap shall be provided ahead of each drywell. The catch basin shall be connected to the drywell by an appropriately sized storm sewer.
 - Drywells shall be provided with solid covers and located out of the plow path.
 - The drywell structure (aka leaching chamber) shall be manufactured by Kistner Concrete Products (or Town-approved equivalent).

2. The proposed storm sewer from the entrance near Building #17 to CB-1 appears to be undersized. Also, the proposed storm sewer from CB-1 to the forebay may also be undersized. Inlet and outlet control calculations should be provided that consider available headwater depth, tailwater depth, and the top of grate elevations of connected storm sewers.
3. In regards to the southern entrance drive, the top of grate elevations of the proposed CB-2 and CB-3 appear to be too high to collect runoff from the sag in the adjacent drive. Also, the horizontal location of those catch basins could, perhaps, be adjusted to improve their ability to collect runoff from the adjacent drive.

EROSION & SEDIMENT CONTROL

1. In Item #5 under "Construction Sequence" on SWPPP-10, it states that "*Building phase sediment trap locations shall be determined by the Town of Horseheads Stormwater Management Officer*". In Item #4 under "Information on Drawings" on SWPPP-11, it states that "*Phase specific locations of compost filter sock shall be determined by the Town of Horseheads Stormwater Control Officer as the building plans are reviewed*". This is contrary to our discussion at Fagan Engineer's office.

It was discussed that, as part of the building plan review/permit process, an individual Erosion & Sediment Control Plan for each building would be prepared and submitted to the Town for their review and acceptance. These plans would be in addition to the Erosion & Sediment Control Plans that would be prepared for each development phase.

OPERATION & MAINTENANCE AGREEMENT

1. The Operation & Maintenance Plan should indicate that appropriate maintenance of the infiltration basin should be implemented to restore the infiltration capacity of this basin, when the effective infiltration rate of the basin drops below the design infiltration rate of 10 inches per hour.

If you have any questions regarding these comments, please do not hesitate to contact us.

Sincerely,



Jimmie Joe Carl, P.E.

Cc: Fagan Engineers & Land Surveyors, P.C.