



*Civil & Environmental Engineering Consultants
174 Main Street, Beacon, New York 12508
Phone: 845-440-6926 Fax: 845-440-6637
www.HudsonLandDesign.com*

March 28, 2017

Mr. Jay Sheers, Chairman
City of Beacon Planning Board
1 Municipal Center
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
119 Howland Avenue Subdivision
119 Howland Avenue
City of Beacon, New York
Tax ID: 6054-14-278498

Dear Chairman Sheers,

Hudson Land Design (HLD) has completed an infiltration and inflow investigation at the above referenced parcel as required by the City of Beacon. The investigation was conducted on March 27, 2017 at the existing residence located at 119 Howland Avenue, which consists of a two-story framed building.

The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. The two-story building has a "Hip" roof consisting of multiple hips and ridges, as well as a covered front porch. The eastern half of the residence has a gutter that collects and conveys the runoff to two downspouts and then discharges it easterly (to the front of the residence) towards 119 Howland Avenue. The front porch does not have its own gutter system, runoff falls from the roof onto the front walk and stairway. The southern roof hip has a gutter system that conveys water to a downspout that discharges it westerly, to the rear yard. The same conditions were observed for the northern hip of the roof. Lastly the small one-story sun room on the northern side of the residence has a gutter system that collects water from its roof and discharges it towards the existing driveway located in the northerly side yard.

The second phase of the study consisted of interior inspection of the building in an attempt to determine if there are any illicit connections to the building sewer line from sump pumps, floor drains and the like. HLD personnel were able to observe sections of interior sanitary sewer plumbing to the point where the piping was routed through the

northerly foundation wall of the residence (located generally in the northeast corner of the building). The pipe reputedly collects the wastewater from the residence and then flows northeasterly toward Howland Avenue's sanitary sewer collection system. HLD observed a clean-out in the basement on the interior sanitary sewer plumbing along the northern foundation wall of the residence. At no point along the length of the visible portion of the line did HLD personnel observe any discharges other than from the standard plumbed fixtures. In addition, there were no sump pumps or floor drains observed, nor were there any unidentified pipes that connected to the line beneath the basement floor.

Based on our observations, HLD does not believe that there are any illicit connections from the building located at 119 Howland Avenue to the City of Beacon's sanitary sewer collection system.

Should you have any questions, please feel free to call me at 845-440-6926.

Sincerely,

Adam Gasparre

cc: Jonathan Miller (via email)
Michael A. Bodendorf, P.E. (HLD file)