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July 23, 2018

Mr. John Gunn, Chairman
City of Beacon Planning Board
1 Municipal Center
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
32 Alice Street Subdivision
32 Alice Street
City of Beacon, New York
Tax ID: 6054-47-320616 (± 0.47 acres)

Dear Chairman Gunn,

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 July 20, 2018 at the existing residence located at 32 Alice Street, 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 “gable” roof consisting of multiple gables, as well as a covered front porch and a “shed” style rear roof. The southern half of the highest gable on the second story collects precipitation and discharges it to the covered front porch roof which is then collected by the gutter system on the front porch. The runoff then is discharged via downspouts and underground PVC piping to the side yard where the proposed Lot 2 residence will be located. The northern half of the second story gable collects precipitation from the roof and conveys it down the western side of the house via a downspout. The runoff then discharges to the grassed area on the side yard. The rear of the house has a shed style roof that collects precipitation in a gutter system and discharges it towards the rear and side yard of the residence. The southern side of the gable roof on the first story collects stormwater and discharges it to the front of the residence towards Alice Street. The downspout for this roof area is located on the eastern side of the residence. The northern half of the first story gable roof collects stormwater and discharges it via downspouts and an underground PVC pipe to the rear of the house. Lastly, the small mud room roof on

the western side of the house does not have a gutter system. Precipitation falls on the small mud room roof area and falls on the concrete walkway.

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 southerly foundation wall of the residence (located generally in the southeast corner of the building). The pipe collects the wastewater from the residence and then flows southwesterly toward Alice Street's sanitary sewer collection system. HLD observed a clean-out in the basement on the interior sanitary sewer plumbing along the southern 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 32 Alice Street 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: Brent Spodek (via email)
Daniel G. Koehler, P.E. (HLD file)