



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

May 30, 2017

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

Re: Infiltration and Inflow Investigation
177 Main Street
City of Beacon, New York
Tax ID: 5954-27-791947

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 May 20, 2017 at the existing commercial building located at 177 Main Street, which consists of a three-story brick building currently used as commercial and residential space.

The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. The existing three-story building has a flat roof with a roof leader in the rear of the building. Rainwater reputedly flows off the building, into the roof leader, then overland flow towards the rear property line.

The second phase of the study consisted of interior inspection of the building to determine if there are any illicit connections to the building sewer line from sump pumps, floor drains and the like. HLD personnel were not able to observe any sections of interior sanitary sewer plumbing. The sanitary sewer line reputedly flows northerly towards Main Street's sanitary sewer collection system from the northern building foundation. At this time, no dye tests were conducted to verify flow direction.

Two sump pumps were observed in the basement of the existing building. One sump pump is located towards the northern foundation wall, while the second sump pump is located near the southern foundation wall. Both sump pumps reputedly discharge to the City of Beacon's sanitary sewer system.

Based on our observations, HLD does not believe that there are any illicit stormwater connections from the building located at 177 Main Street to the City of Beacon's sanitary sewer collection system.

The proposed expansion of the building will reroute the roof leaders towards the rear of the building and discharge into a stormwater planter box. The sump pumps will be rerouted towards the rear of the building expansion, into stormwater planter boxes located in the proposed garden area. The reputed sanitary sewer line is proposed to remain connected to the sanitary sewer system located in Main Street.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Michael A. Bodendorf". The signature is fluid and cursive, with the first name "Michael" and last name "Bodendorf" clearly distinguishable.

Michael A. Bodendorf, P.E.

cc: Brendan McAlpine (via email)
Jon D. Bodendorf, P.E. (HLD file)

