



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

February 27, 2018

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

Re: Infiltration and Inflow Investigation
1181 North Avenue Professional Building Subdivision and Special Use Permit
1181 North Avenue
City of Beacon, New York
Tax ID: 5955-19-716048 (± 0.70 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 January 08, 2018 at the existing building located at 1181 North 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. There are multiple roof leaders discharging from the existing building.

The building has approximately ten (10) downspouts that collect and convey the runoff to underground PVC piping. The two catch basins in the existing parking lot have PVC piping entering them, and it is presumed that these discharges are from the roof collection system. The one gutter, not entering an underground pipe, discharges to the surface in the grassed area and flows towards an existing catch basin.

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 easterly 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

easterly towards the City of Beacon's North Avenue sanitary sewer collection system. 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.

There was one (1) sump pump observed in the basement. The sump pump was observed to pump collected water through the southern foundation wall towards into presumably the same underground collection system for the roof drainage. No floor drains were observed at 1181 North Avenue.

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

Sincerely,

A handwritten signature in dark ink, appearing to read "Daniel G. Koehler", with a long horizontal flourish extending to the right.

Daniel G. Koehler, P.E.
Principal

cc: Dr. Norm Schofield (via email)
Jon D. Bodendorf, P.E. (HLD file)