



*Civil & Environmental Engineering Consultants
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March 24, 2017

The Hose Company, LLC
Mr. Michael Benzer
Mr. John Gilvey
162 Main Street
Beacon, NY 12508

Re: Infiltration and Inflow Investigation
Hudson Beach Glass site
162 Main Street
City of Beacon, New York

Dear Messrs. Benzer and Gilvey:

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 24, 2017 at the existing building at 162 Main Street, which consists of a three-story brick façade building with a one-story addition, which serves Hudson Beach Glass.

The former fire house was constructed in the late 1800's and an addition was reputedly constructed in the 1950's. The building faces Main Street, and is located at the northwest corner of the intersection of Main Street and Cross Street.

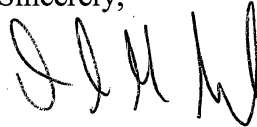
The first phase of the study consisted of an exterior inspection of the building to determine the location of roof leader discharge points. The three-story building has a flat roof that discharges northerly (to the rear of the building) where there is a gutter that collects and conveys the runoff westerly. At the northwest corner of the building, there is a downspout that visibly discharges to the surface. The one-story building also has a flat roof that pitches easterly toward a gutter that collects and conveys flow southerly. At the southeast corner of the building, there is a downspout that discharges into a corrugated pipe along the sidewalk/building interface. The collection pipe is a black corrugated plastic pipe that discharges directly into the catch basin at Cross Street. The same black corrugated pipe was observed in said catch basin. The attached exhibit 1 shows the general schematic of the above described roof drainage system.

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 significant sections of interior plumbing to the point where the piping was routed beneath the first-floor bathroom (located generally in the northwest corner of the building). The pipe reputedly collects the wastewater from the bathroom and then flows southerly toward Main Street's sanitary sewer collection system. We observed a clean-out in the basement floor to support the reputed line location. 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 fixture. 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.

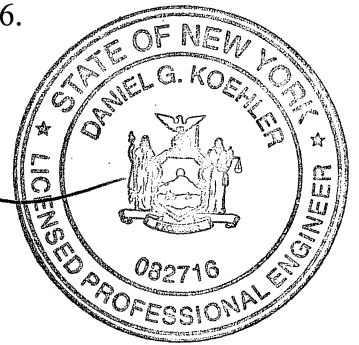
Based on our observations, HLD does not believe that there are any illicit connections from the building located at 162 Main Street to the City of Beacon's sanitary sewer collection system.

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

Sincerely,



Daniel G. Koehler, P.E.
Principal



cc: Jeff Wilkinson, R.A. (via email HUDSONVALLEYARCH@gmail.com)
Michael A. Bodendorf, P.E. (HLD file)

3.82'



Scale: 1" = 10'

N17°59'23"E 47.88

Retaining Wall

GUTTER

← flow ←

Fire Escape

S44°11'18"E 51.07

5.0

S35°53'03"E 35.10

N3°15'17"E 48.50

Along Building Line

→ Roof Slope →

3 Story

→ Roof →

Slope

1 Story

GUTTER

↓ flow ↓

Concrete

Downspout - discharge to Pipe

Existing plastic Pipe discharge to Catch Basin

CROSS STREET

Existing Catch Basin

N88°47'28"W 31.68S 61°17'42"W 20.22'

Main Street

EXHIBIT 1