



*Civil & Environmental Engineering Consultants  
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May 30, 2017

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

Re: Infiltration and Inflow Investigation  
226 Main Street  
City of Beacon, New York  
Tax ID: 5954-27-860918

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 initial investigation was conducted on April 24, 2017 at the existing commercial building located at 226 Main Street, which consists of a one-story brick building currently used as an automotive service station. Dye Testing of the floor drains was conducted on May 27, 2017.

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 one-story building has a flat roof with no observable collection system or roof leaders. Rainwater reputedly flows off the building towards the rear property line.

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 not able to observe any sections of interior sanitary sewer plumbing. The sanitary sewer line reputedly flows westerly towards North Elm Street's sanitary sewer collection system from the western building foundation. The sanitary sewer line is assumed to flow into the municipal sewer system, at North Elm Street or towards Main Street. At this time, no dye tests were conducted to verify sanitary sewer flow direction.

Two floor drains were observed, one in the garage which reputedly flows towards Main Street's sewer collection system, and one in the bathroom on the western side of the building. Dye testing was conducted on both floor drains to verify flow direction on May

27, 2017. The floor drain in the garage was observed to be clogged and did not allow dye or water to pass through it. The bathroom floor drain was dye tested and the dye was observed in the sewer manhole located in North Elm Street.

Based on our observations, HLD does not believe that there are any illicit stormwater connections from the building located at 226 Main Street to the City of Beacon's sanitary sewer collection system. The building is proposed to be removed, so the existing floor drains will be cut and capped at that time.

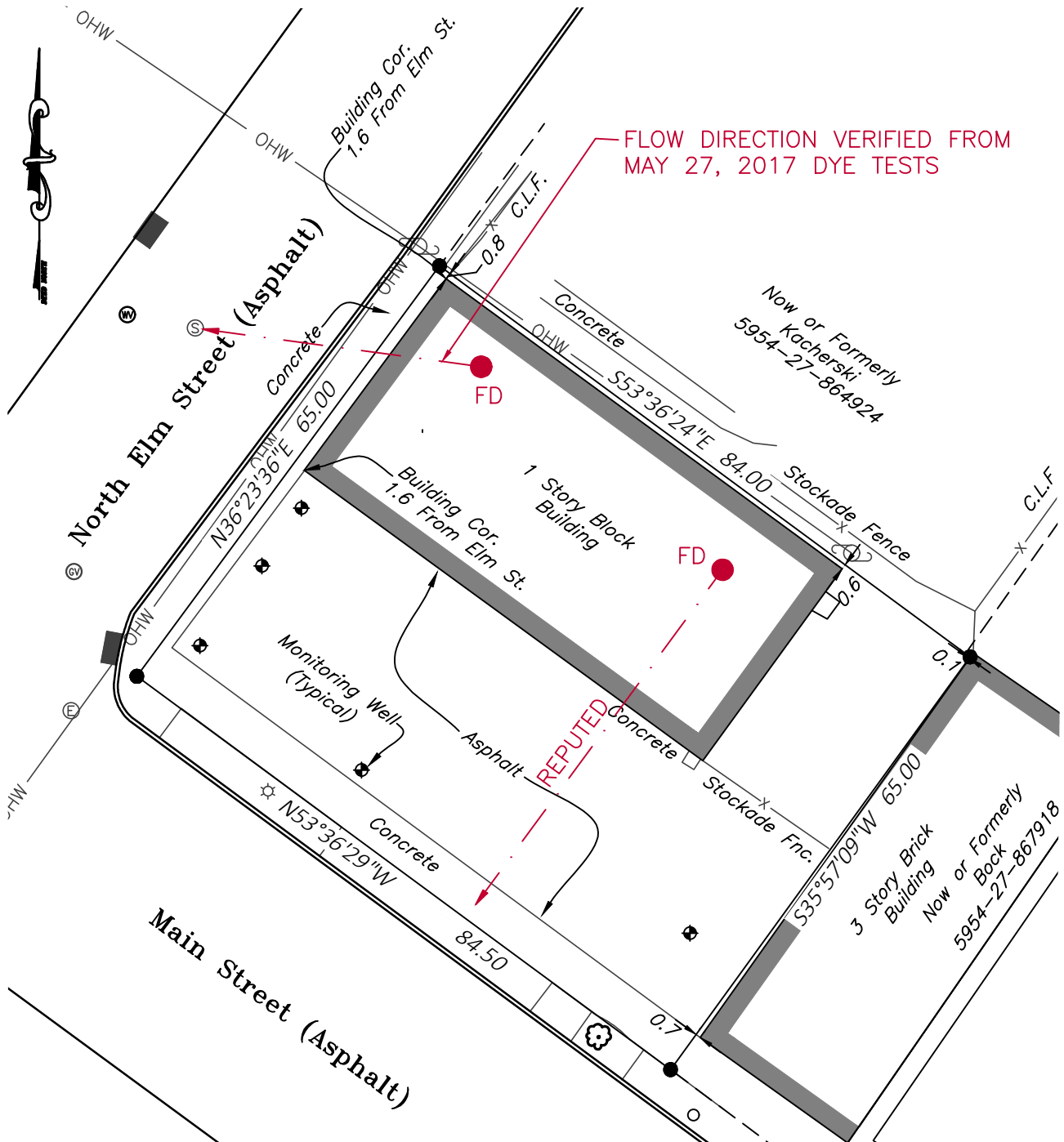
Should you have any questions, please feel free to call me at 845-440-6926.

Sincerely,

A handwritten signature in black ink, appearing to read "Mr. Bodendorf", with a stylized flourish at the end.

Michael A. Bodendorf, P.E.

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



NOTE: FLOOR DRAIN (FD) DISCHARGE DIRECTION FOR BATHROOM FLOOR DRAIN VERIFIED WITH MAY 27, 2017 DYE TESTS. FLOOR DRAIN IN GARAGE WAS CLOGGED, FLOW DISCHARGE DIRECTION AS PER OWNER.

PREPARED FOR:  
 226 MAIN STREET  
 ±0.13-ACRE PARCEL  
 MAIN STREET AND NORTH ELM STREET  
 CITY OF BEACON  
 DUTCHESS COUNTY, NEW YORK  
 TAX PARCEL 5954-27-860918

### I&I INVESTIGATION

SCALE: 1" = 20'  
 DATE: APRIL 25, 2017  
 (REVISED MAY 30, 2017)



PREPARED BY:  
 HUDSON LAND DESIGN  
 PROFESSIONAL ENGINEERING  
 174 MAIN STREET  
 BEACON, NY 12508  
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