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March 27, 2017

Mr. Jay Sheers, Chairman
City of Beacon Planning Board
City of Beacon City Hall
1 Municipal Plaza
Beacon, New York 12508

Re: Inflow & Infiltration Study
16 Church Street Application
City of Beacon
Tax Map No. 5954-28-885953

Mr. Chairman,

Pursuant to the request of Lanc & Tully, in their comment letter dated February 7, 2017, this office conducted an Inflow and Infiltration (I & I) inspection and have prepared this report for the subject building located at 16 Church Street. Based on our inspection, I offer the following:

The building is a two story single family home which was constructed in the early 1900's. The building is currently being renovated. Through conversations with the applicant it is our understanding that there were a number of roof drains that discharged to the sanitary line and a sump pit that drains on the interior of the building.

I estimate the area of the roof that drains into the sanitary line to be approximately 2,270 square feet. Based on a 24-hour rainfall of 2.9", 3.5", 4", 5" and 6" for a 1-yr, 2-yr, 5-yr, 10-yr and 25-yr storm, respectively, I estimate the volume of I&I for each storm as follows:

Design Storm	24-Hr Rain, in.	Volume, ft ³
1-year	2.9	548.5
2-year	3.5	662.0
5-year	4	756.6
10-year	5	945.8
25-year	6	1,135.0

The existing I&I generated by this project site has been remediated as part of the renovation of the existing building. The exiting and the proposed buildings will discharge the roof drainage at grade and ultimately into the existing storm sewer system both in Church Street and North Elm Street.

Please feel free to contact me if you have any questions.

Very truly yours,

A handwritten signature in blue ink, appearing to read "Dennis Lynch", with a stylized flourish at the end.

Dennis Lynch, PE