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December 23, 2020

Mr. Gerard Smith  
First Selectman  
Town of Beacon Falls  
10 Maple Avenue  
Beacon Falls, CT 06403

**Re:     Burton Road Retaining Wall**  
**MMI #141.15900.00002**

Dear Mr. Smith:

Milone & MacBroom, Inc. has completed a structural inspection of the retaining wall along the south side of Burton Road. The wall is comprised of a dry stack stone masonry bottom section and a reinforced concrete upper section that was built in the early 1980s. Burton Road is approximately 24 feet wide and carries two lanes of traffic. There is also a 4-foot-wide concrete sidewalk between the edge of the road and the face of the concrete parapet wall. The parapet wall is 1 foot wide and has a 3' chain link fence attached to the top. The concrete portion of the wall is approximately 335 feet long and is an average height of approximately 5 feet.

The inspection was done mainly from the sidewalk as the slope on the backside of the wall was very steep and snow covered. Starting from the east end of the wall, the first 204-foot section was in generally good condition with some minor tilt of the wall toward the river of less than 1" as measured from the top of the sidewalk to the top of the parapet.

The next 101-foot section showed both vertical settlement of up to approximately 6" and rotation of the top of the wall away from the road of up to 5" (horizontal) over a 32" (vertical) distance. This corresponds to approximately a 9-degree rotation toward the river. This section is in poor condition and should be replaced.

The remaining 30 feet of the wall is in generally good condition with some minor tilt of the wall toward the river of less than 1" as measured from the top of the sidewalk to the top of the parapet.

There are longitudinal cracks in the asphalt pavement approximately 50 feet long that are located between 2 feet and 3 feet north of the south curb line. The cracks vary in width from ¼" to 1". The open cracks should be sealed to prevent water intrusion behind the wall.

Based on the present conditions of the wall, we recommend Burton Road should be closed to traffic from just past the parking area for Beacon Mill Village to the intersection with Wolfe Avenue.

Please feel free to contact me if you have any questions relative to the inspection results.

Sincerely,

**SLR International Corporation**



Glenn D. Jarvis, PE  
Principal Structural Engineer

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