



23 Thornbury Way
Windham, ME 04062
(207) 892-0983

September 4, 2018

Devin Cough
Archetype, P.A.
48 Union Wharf
Portland, ME 04101

Re: Holiday Inn By the Bay, Portland, ME

Dear Devin,

At your request, we have reviewed the capacity of the existing roof at the anchor locations for a proposed lifeline fall protection system to be installed on the roof on the Holiday Inn building located on Spring Street in Portland, Maine. Our review was based on the information provided on the original construction drawings for the building.

The existing roof consist of the 10-inch-thick reinforced concrete flat slab with a specified concrete compressive strength of 3000 pounds per square inch.

Based on our review of the existing roof construction, the structure is adequate to support the required design loads of the life line fall protection system.

To account for the potential that the anchors may be installed in cracked concrete, the anchor embedment should be increased to a minimum of 3 ¾”.

Prior to the installation of the roof anchor plates, we recommend a licensed professional engineer verify the condition of the concrete substrate

If you have any questions or require any additional information regarding this letter, please do not hesitate to contact me.

Sincerely,

M² Structural Engineering, P.C.

A handwritten signature in black ink, appearing to read 'Matthew J. Miller'.

Matthew J. Miller, P.E.
President

