



L & L STRUCTURAL
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March 14, 2011

John H. Leasure, Architect
12 Littlejohn Road
Cape Elizabeth, Maine 04107

Subject: Holiday Inn West, 81 Riverside Street, Portland, Maine
Steel Lintel above Opening for New Elevator Access

Dear John,

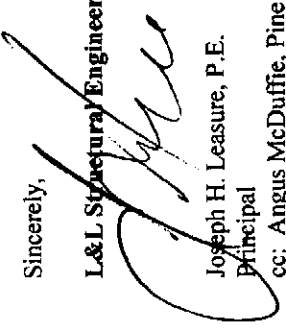
As per your request, we visited the existing Holiday Inn West building located at 81 Riverside Street in Portland, Maine to review the existing steel lintel above the new opening in the masonry wall for the new elevator access that has been recently constructed. Our analysis and review of the structure was performed utilizing the 2009 International Building Code (IBC) adopted by the City of Portland. The analysis considered the Steel Construction Manual (AISC) published by the American Institute of Steel Construction.

The original design drawings indicated a double L6x4x1/2 structural steel angle with the long legs vertical (LLV) above the new 6'-4" masonry opening. However, the contractor has installed a double L6x3 1/2x5/16 structural steel angle with the long legs vertical (LLV) above the new 6'-4" masonry opening. The load on the steel angle is primarily from the existing second floor above the opening. The original analysis considered a second floor live load of 100 PSF in accordance with the code in addition to the dead load of a presumed 12" thick concrete second floor slab. However, the actual slab thickness is 7" discovered upon further review of the existing conditions at the building. Consequently the recently installed double L6x3 1/2x5/16 structural steel angle with the long legs vertical (LLV) above the new 6'-4" masonry opening is sufficient to support the code stipulated structural load.

If you have any questions or require any additional technical assistance, please do not hesitate to call.

Sincerely,

L&L Structural Engineering Services, Inc.



Joseph H. Leasure, P.E.
Principal

cc: Angus McDuffie, Pine State Elevator
File

