



CIVIL & STRUCTURAL ENGINEERING  
www.cascobayengineering.com

424 Fore St., Portland, ME 04101 Phone 207.842.2800 Fax 207.842.2828

November 4, 2014

Code Enforcement Department  
City of Portland  
389 Congress Street, Rm 308  
Portland ME 04101

Re: Renovation to Existing Residence  
25 Chenery Street  
Portland, Maine

Project Number: 14-145

To Whom It May Concern

Tony Dumais of Casco Bay Engineering visited the Residence at the address noted above on November 4, 2014 to observe the existing structure conditions at the proposed renovated entry area. The existing beam is a 2x8 & 2x10 spanning approximately 14'-6" and is supporting a small shed roof, approximately 6'-0" wide. The existing beam appears to be good condition and is continuous from support to support.

Casco Bay Engineering analyzed the existing beam and found that it is approximately 50% overstressed when using the design loads for the current edition of the International Building Code (IBC). For this beam to meet current IBC loading requirements, an additional 2x10 SPF No. 2 will need to be added to the existing beam (Final beam size – (2) 2x10 + 2x8).

This beam can be supported by a new 4x6 column on either side, providing full bearing for the new beam size mentioned above. Since this column will not land on a foundation wall or footing, it will need to be attached to the existing/new column in the wall with ½" dia. x 8" long lag screws @ 2'-0" o.c.

Please contact us if you have any additional questions or concerns.

Sincerely,

Tony Dumais  
Casco Bay Engineering

