



**CIVIL
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October 7, 2014

Mr. Nate Poissant
CasaPro, LLC.
27 Bedard Lane
Lyman, ME 04002

RE: Structural Modification, Beam Sizing
36 Caron Street
Portland, ME

Mr. Poissant:

Per your request, an analysis has been performed to determine the support beam needed to allow the removal of an existing wall at the above referenced property, per the requirements of the 2009 International Residential Code.

All information used in this evaluation was obtained through the images and sketches provided by you via e-mail on October 6, 2014. No site visit was made by representatives from this office. Any assumed dimensions described below shall be verified prior to starting work, with any discrepancies resolved to the satisfaction of the engineer and homeowner.

It is proposed that a 16'-1" section of the center wall of the 28' wide single story ranch house be removed and replaced with an engineered lumber beam. It is assumed that the supported area will be used as uninhabitable attic with storage, and that connections between the ceiling joists are sufficient to restrain lateral movement of the rafters.


In order to support the attic loads and associated dead loads, as well as expected deflection in the roof framing due to the snow load, a header consisting of three 1 3/4"x 11 7/8" Versa-Lam 2.0 3100 engineered lumber members is required.

Bearing members below the beam shall be a minimum of three 2x6 studs. It is assumed that these studs will be blocked solid to the first floor beam and to the foundation slab below. No evaluation of the first floor beam has been performed as part of this review.

No other aspect of building framing beyond the beam in question has been evaluated as a part of this review. No review with regard to Life Safety or building envelope items has been performed.

Please do not hesitate to call if you have questions.

Sincerely,
CIVIL CONSULTANTS


Neil J. Rapoza, P.E.
Structural Engineer
cc: OUT, file

Enclosures
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