



**HELEN WATTS ENGINEERING**

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February 4, 2011

Mr. Walt Juve

Dekko, LLC

40 Portland Pier #11

Portland, ME 04101

Re: 225 Industrial Way, Portland, Maine

HWE P/N 10-039

Dear Walt,

At your request, I inspected the visible structure of the three mezzanines as built in your building at 225 Industrial Way, Portland, Maine. John provided access to the space.

The building is a Building Type IIIA.

The following attachments were called out, and where viewed were made with adequate attachments; *italics* show field modifications:

1. At the metal-stud bearing wall between the three sections of the building: Kamco studs are assumed to be equal to Dietrich 20 gauge 6" metal studs. Where framing is supported off the metal stud walls, the header is to be SPF#2 2x12 or better (*a 12" LVL was used*), attached to the studs with Dietrich S689 EasyClip™ S-Series™ Clip Angles or equal, see: (<http://www.dietrichindustries.com/products/>, p. 100-101, Floor Framing Connections), 9 screws to header, #10 metal screws, fill all holes to the metal stud.
2. Hanger for joists to header: Assume  $630(12/16) = 473$  plf header or 630#/stud @ 16" OC. At the steel-stud-framed walls between the three sections of the building, install Simpson LBV1.56/11.25 Hanger, or equal, full nailing, header to LVL joist. *Double joist hangers were used as needed.*
3. At steel beams: bolt 2x4 plate to top of steel beams to fasten a rim joist and LVL joists. *The joists are run over the steel beam so do not require a hanger.*
4. Columns: bolt 6x4x1/4" x 4" to bottom flange, 2 – 3/8" bolts, 4 – wood screws into column. One angle per column. *The bolting detail has the bolt welded to the steel flange to make a flat connection from the steel tube column to the steel beam. This is an adequate attachment.*



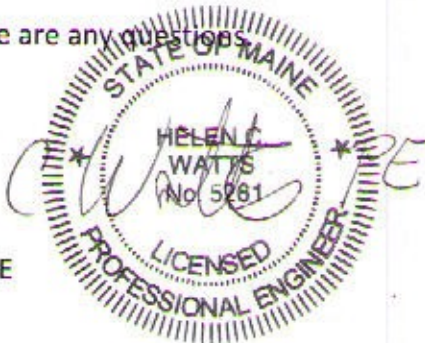
5. Columns at slab, bolt 6x4x1/4" x 4" angle to floor, 1 - 1/2" expansion bolt, 4 - wood screws to column. *The columns are placed on a cast-in-place base on the slab; the base is anchored to the slab with 4 dowels and the column is anchored to the base with a welded plate and four bolts. This is an adequate support and attachment. There is one steel column in Mezzanine D which is bolted to the concrete frost wall. This is an adequate support and attachment.*
6. *The outside edge of the mezzanine at the exterior wall is supported by a 2x4 which is attached to the exterior siding panels with a metal screw. This is lightly loaded, and adequate support is provided.*

The stairs and handrail have not been installed. The steel handrail is onsite; the stairs are being fabricated. The top of handrail to the bottom of the kickplate is 42".

Please call if there are any questions.

Yours truly,

Helen C. Watts, PE  
Principal



Fax: (207) 771-9047

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