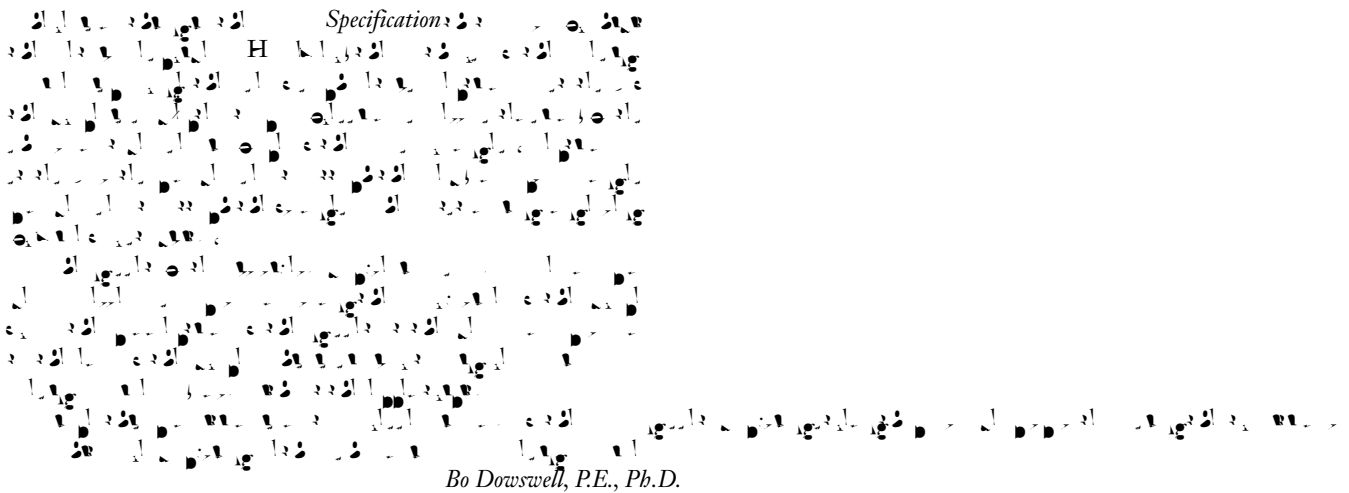


Gusset Buckling

A detail has been proposed for a brace-to-gusset connection. Instead of using four claw angles, like in Figure 3-4 of AISC Design Guide 29, it uses four “claw plates.” We are concerned that the claw plates provide little out-of-plane strength or stiffness. Is the below detail acceptable? If so, can the buckling length of the gusset as shown in Appendix C of Design Guide 29, or is the buckling length a greater dimension due to the lack of an outstanding leg in the connecting element?

Moment Connections to Unstiffened Column Webs



The following text is a scan of a document that is almost entirely illegible due to extreme noise and corruption. The text is mirrored and appears to be bleed-through from the reverse side of the page. Some faint words and symbols are visible, including the mathematical expression $K_L EI$ and the letter H .

Larry S. Muir, P.E.

Levelling a Composite Floor

A composite floor was constructed without the specified cambers in the beams. There are excessive deflections in the floor, and we need to find a way to bring the floor back to level.