

BE PROJECT SUMMARY**Havelock Metals Co., Peterborough, ON**

New 6,000 sf steel framed office building with attached manufacturing facility



STEEL FRAME STRUCTURE FOR THE OFFICE, DESIGNED BY BRADLEY ENGINEERING.

The new Havelock Metals building includes a 6,000 sf office area and a 25,000 sf manufacturing facility. Bradley Engineering was responsible for the structural design and construction related services for the office portion of the construction and was the local foundation designer and inspector for the pre-engineered steel framed manufacturing building. The building was architectural designed by LETT Architects, Peterborough, ON. The project was completed under a design-build contract which necessitates different project milestones and collaboration with the contractor during design. The General Contractor for the project was Mortlock Construction, Peterborough, ON.

Foundations:

The interior and perimeter foundation walls and footings are typical reinforced concrete shallow foundations located below the depth of frost. The interior slab on grade for the office was light duty, minimally reinforced, with jointing for the control of random cracking. The manufacturing slab was designed as heavy duty for regular forklift traffic and storage racking, and was reinforced to minimize joints.

Superstructure:

The superstructure is steel framed structure with braced frames and moment frames. Open webbed steel joists framed the sloped roof and the flat mechanical roof. Exterior infill walls were all light gage steel framing designed to transfer wind load to the main structure.

Highlights:

Heavy snow load design for drift loads on the mechanical roof. Design-Build contract required early foundation drawings and aggressive coordination efforts.



