



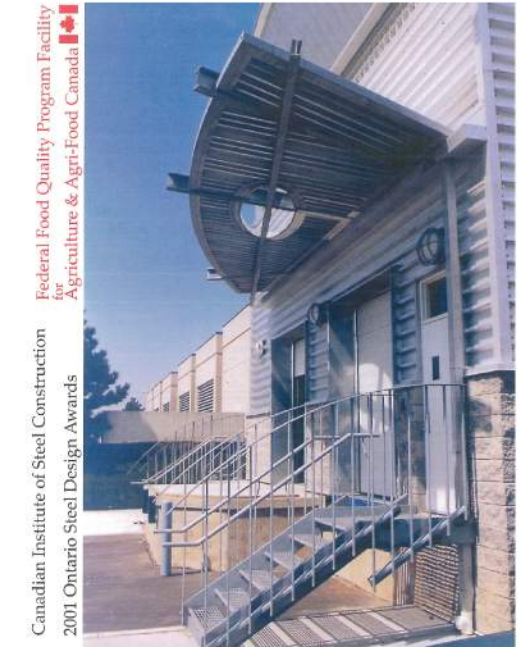
The new state-of-the-art shared Pilot Plant facility was inserted into left-over space between 93 and 95 Stone Rd.

The **FEDERAL FOOD QUALITY PROGRAM FACILITY** is a 9,921 m² complex Renovation/ Addition laboratory project for Agriculture & Agri-Food Canada scientists moving from decentralized facilities in Ottawa into consolidated facilities.

This high-profile public project is sited on the Ontario Ministry of Agriculture & Rural Affairs (OMAFRA) campus adjacent to the University of Guelph.

The project involved a complex three-dimensional space shuffle, with minimal disruption to on-going laboratory functions.

The pathogen testing Pilot Plant facility is unique in Canada and is a key factor in the recognition of Guelph as an international centre of food quality research and development.



This project received a Canadian Institute of Steel Construction Ontario Steel Design Award in 2001.

SUSTAINABLE FEATURES

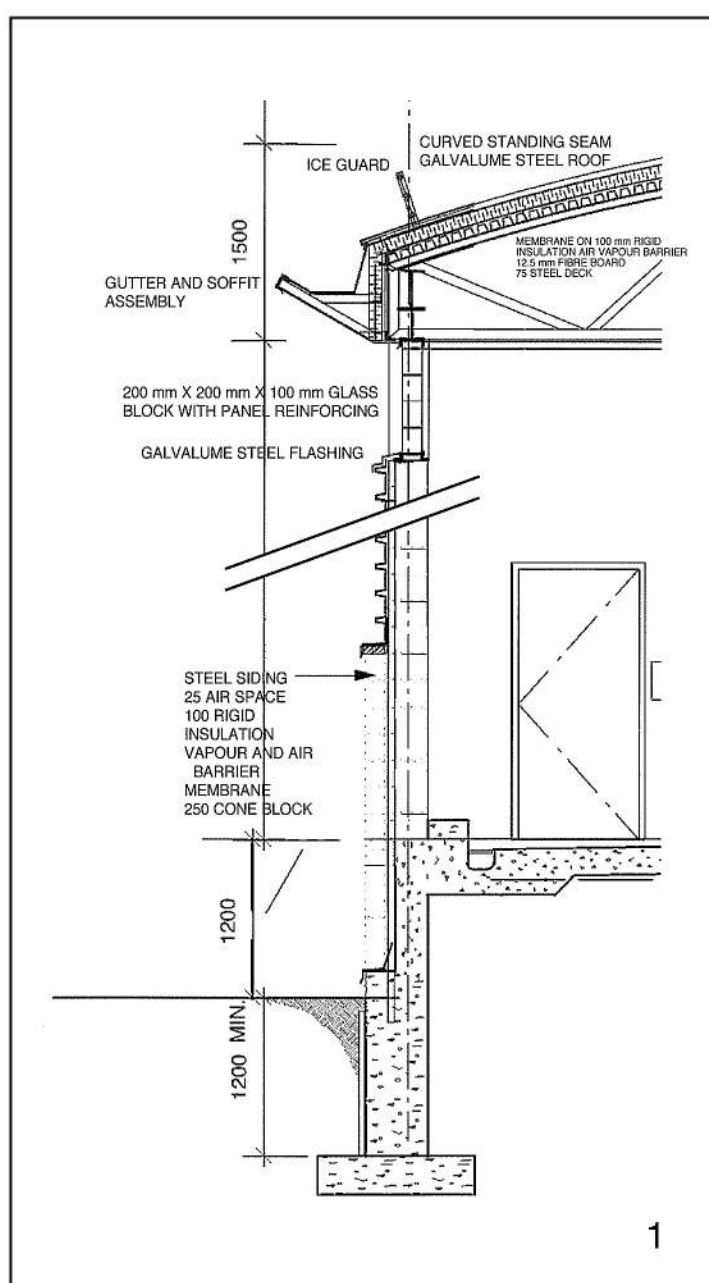
- Reduced Building Area:**
 The project consolidated space by relocating decentralized facilities from the Ottawa area to Guelph. Space, equipment and facilities are shared between its institutional users.
- Sustainable Redevelopment:**
 The project converted an existing building, 95 Stone Road, into laboratory and office space. Part of this major renovation was the addition of a second floor mechanical penthouse.

Highly serviced spaces in 93 Stone Road were reclaimed for additional laboratory functions. New offices were built within under-utilized atrium spaces.

The new state-of-the-art shared Pilot Plant facility was inserted into left-over space between 93 and 95 Stone Rd.
- Sustainable Transportation:**
 The project was built adjacent to the University of Guelph campus, a centralised hub well served by public transit, and within easy walking/cycling distance.
- Recycled and Renewable Materials:**
 The new 'Pilot Plant' was clad in and framed with "Galvalume" Steel, which is not only high in recycled content, but also extremely durable. Structural members where the penthouse was added to the 95 Stone Road building were cut, salvaged and relocated up to the penthouse roof.
- Natural Ventilation + Daylighting:**
 The setback between the existing buildings and new Pilot Plant allows natural light to penetrate into the space;

Clerestory lighting and brightly painted walls and ceiling reflect light into the space below;

Existing space was renovated to bring natural light into interior offices.
- Waste Reduction, and Elimination:**
 Modular systems, off-site component fabrication and an efficient structural concept reduced construction waste.
- Innovative Design + Energy Efficiency:**
 The Pilot Plant, 93 and 95 Stone Rd. facilities are served by separate mechanical systems, allowing energy to be efficiently deployed according to functional requirements. Serving the buildings individually also reduces duct runs and subsequent energy loss.



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1. Building Section showing "Galvalume" Steel framing and cladding.
 2. and 5. Setback between the existing buildings and new Pilot Plant allows natural light to penetrate into the space.
 3. Clerestory lighting and brightly painted walls and ceiling reflect light into the space below. 4. Interior windows bring natural light into offices from skylights above. 6. Landscaping between buildings.

Federal Food Quality Program Facility

Agriculture & Agri-Food Canada, and the University of Guelph

Area: 7,796 m² (Minor Renovation)
 1,555 m² (Major Renovation)
 570 m² (New Construction)
 9,921 m² (Total Area)

Cost: \$10.0M (Budget)
 \$8.38M (Final Cost)

Status: Completed January, 2000
 Key People: Deborah Scott,
 Principal-in-Charge

Paul Dowsett,
 Project Architect

Client Reference: Ms. Sharen Findlay,
 Ontario Regional Engineer,
 Agriculture & Agri-Food Canada,

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