

SECTOR: INSTITUTIONAL

TRENT HILLS EMERGENCY RESPONSE CENTER

Northumberland County, Ontario

DESCRIPTION:

This project consisted of a 20,000ft² new building to provide facilities for a municipal fire department and ambulance operations. It includes three bays for ambulance services, four bays for fire services, administration spaces, sleeping quarters and community meeting rooms.

CONSULTING SERVICES:

Callidus provided mechanical engineering services for the project. LEED Silver (certification pending) was achieved by implementing high efficiency boiler plant system for hot water in floor heating in the apparatus bays, makeup air units with condensing burners and a combination of Dedicated Outdoor Air System and Variable Refrigerant Flow fan coil system for the office and administration areas. Ultra-low flow plumbing fixtures were selected to reduce water consumption by the building. A BAS system to monitor performance of the building and energy consumption was included as well. The project relied on an integrated design process where the team evaluated LEED scorecard options and selected which points to target. Energy modelling was completed in the preliminary design phase to help guide design decisions

CONSTRUCTION VALUE:

\$5.7 Million

DESIGN TEAM:

Project Manager –
Matthew Van Gilst, P.Eng.
Jennifer Stanley, P.Eng.
Glenn Kernaghan