CONCEPTUAL ELEMENTS



Our Volunteers

- Each of the **25+ volunteers** undergo an average of **200 hours** of training per year, plus
- The Qualicum Beach Fire Department responds to **over 250 calls** for service per year all the time required to respond to calls
- Volunteers respond to a fire protection area that includes areas outside of the Town boundaries
- Decontamination zones within the building ensure that volunteers are protected



Community Interests

- The Fire Hall is **strategically located** at main intersections for easy public access and to reduce congestion in the downtown core
- The Town **partners** with Parksville and other fire departments through a mutual aid agreement that activates during larger incidents
- The public can access an extensive network of unmaintained recreational trails south of the Fire Hall • The public entry welcomes all those visiting the Hall with **connections** to the road, parking, pathways,
- benches, landscaping and bicycle racks
- Wood frame construction is being built by local trades



Sustainable Design

- The sloping topography and plan clearing to the south of the building improves the solar exposure for efficient **solar panes and solar wall**
- The Town's main sources of water are located in the woodland south of the new Fire Hall. During winter months, this aquifer rests and recharges to be used primarily during the summer
- Water consumption is reduced through **high-efficiency toilets and faucets**
- In-floor radiant heating provides a high degree of energy efficiency and comfort
- Site landscaping will utilize **best practices** in fuel removal and general maintenance procedures
- The design supports **BC's Wood First Initiative**, which aims to promote the use of BC wood products to support forest-dependent communities

The Town of Qualicum Beach is replacing the current fire hall with a **built-for-purpose** emergency response facility that will showcase leading edge energy efficiency and building technology.

The **highly innovative systems** include:

- solar photovoltaic panels that provide 27kW of power • LED lighting
- Heat Recovery Ventilation system to increase the building's overall performance without compromising operational functionality.

The design also includes a goal of **exceeding LEED requirements** for water conservation and the use of onsite timber in the interior design, which was removed from the site during pre-construction.





Qualicum Beach Fire Hall

qualicumbeach.com

Our New Fire Hall

- heat exchange from source
- solar thermal panels to preheat domestic water
- in-floor radiant heating throughout the building

The Fire Hall is set to use 72% less energy than a fire hall built to the current BC Building Code. The building will stand as a testament to local communities as to what **leadership** in environmental building practices can achieve with an integrated team effort.

The Fire Hall will use 72% less energy than a fire hall built to the current BC Building Code