

DESIGN



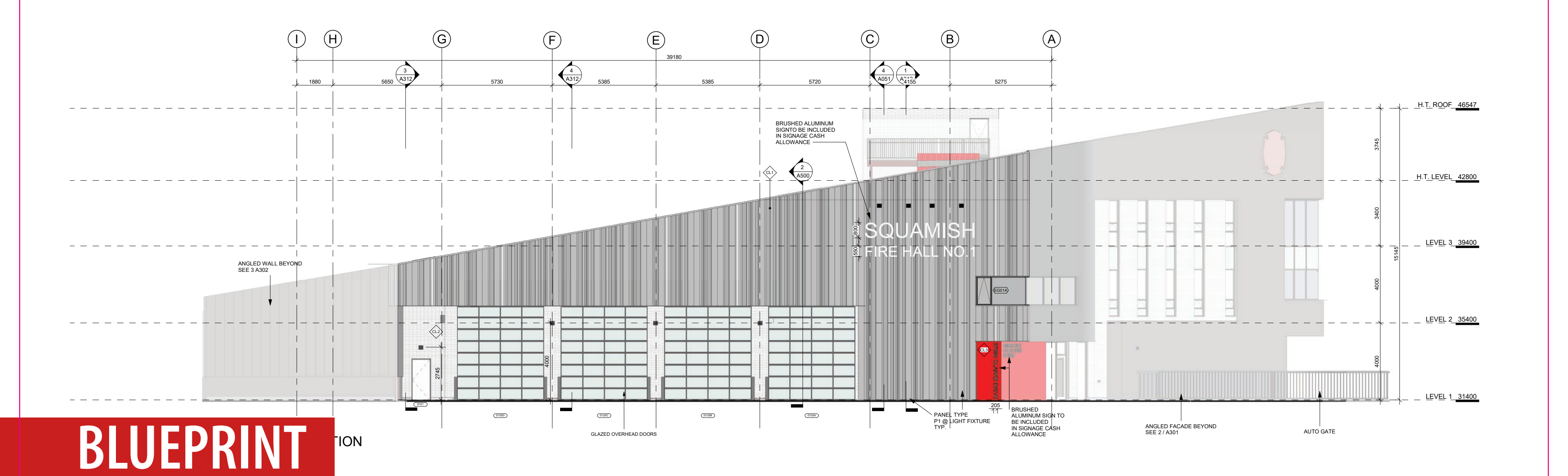
MODEL



RENDERING - FRONT



RENDERING - REAR



BLUEPRINT

CONSTRUCTION

NOVEMBER 2020



DECEMBER 2020



APRIL 2021



JUNE 2021



JULY 2021



DECEMBER 2021



MAY 2022



AUGUST 2022



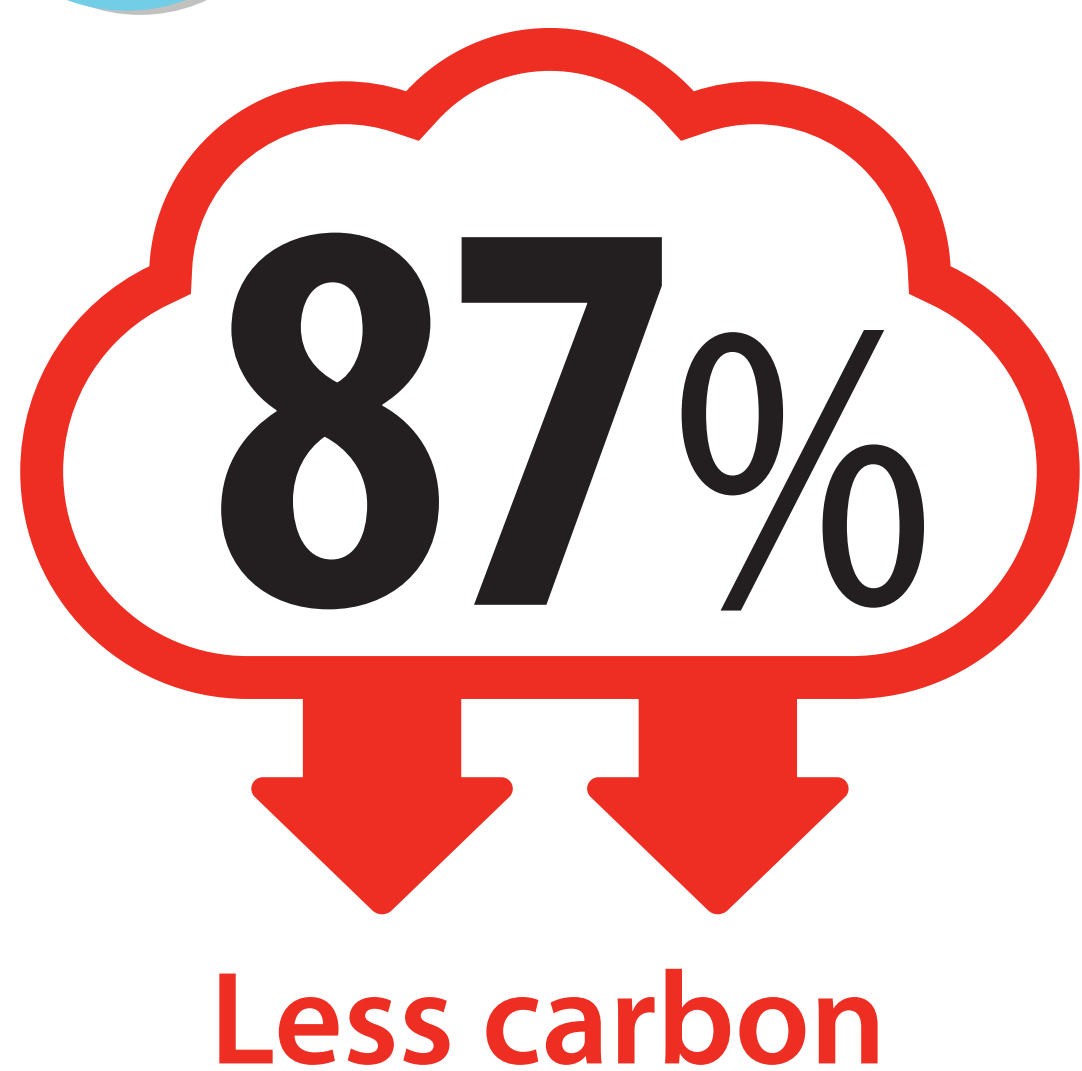
ECO FOOTPRINT

The new Fire Hall contributes to some of the Six Big Moves outlined in the District's Community Climate Action Plan to reduce our emissions by 38,300 Tonnes of CO₂ by 2030, such as:

- Closing the Loop on Waste
- Decarbonizing Transportation
- Constructing Better Buildings



Constructing Better Buildings



The new fire hall will emit **87% less carbon** per year than the old fire hall. This is achieved by:

- Using an all-electric heating system
- Using a less than **30% window-to-wall ratio** to ensure a more efficient building envelope

Greenhouse gas intensity (GHGI) is a measure of greenhouse gas emissions from all of the energy required to operate a building. The average GHGI for 58 fire halls in the Building Benchmark BC database was 41.5 kgCO₂e/m²·a, with the best performing fire hall having a GHGI of 11.5 kgCO₂e/m²·a.

The new fire hall has a significantly better GHGI than any fire hall listed in the Building Benchmark BC database at 1.22 kgCO₂e/m²·a.



Closing the Loop on Waste

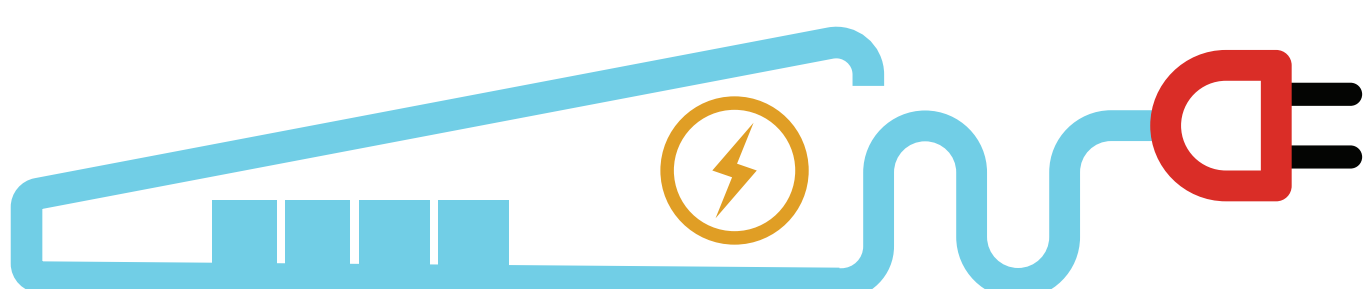


During construction of the new fire hall the goal was to divert 75% of waste from the landfill.

The project team exceeded this goal and kept 88% of waste out of the landfill during the construction process.



Decarbonizing Transportation



The new fire hall is wired to allow for electric fire trucks when available. As the District's fleet of vehicles continues to electrify, there will also be opportunities to charge other forms of electric vehicles on site.

FIRE RESCUE

The new fire hall offers many benefits to Squamish Fire Rescue, fire fighters and our community.

- Apparatus fueling on site. During disasters apparatus will be able to be fueled out of the flood zone.
- Back up generator capable of running for seven days.
- Emergency Operations Centre with a full communications system.
- A primary and back up radio communication system capable of communicating both digital channels and analog channels.
- The hose tower serves as a training prop for high rise structural fire fighting and high angle rope rescue. As our structures become higher and larger specific training is needed.
- Cancer reduction and proper decontamination facilities. Our teams will now have the use of a larger gear extractor to properly clean more turn out gear faster. Ultrasonic equipment allows fire fighters to properly clean toxins out of their skin after Structure fires reducing the risk of cancer causing toxins absorbing in to their skin.
- Having our crews working out of this new hall/ training site will greatly improve productivity as they will have zero travel time for training sessions. This will increase the time crews have to train on all the different skills we focus on.
- The new gym will allow fire fighters to insure they are maintaining their cardio and strength training.
- Crew quarters support the 24/7 staffing response.
- Decreased response times to the Downtown area.

