



# WINDERMERE FIRE STATION 31

EDMONTON, AB



## QUICK FACTS

- + First Net Zero Fire Station in North America
- + LEED Silver (Targeted)
- + Edmonton 40-40-80 Standard (Targeted)
- + 15,500 sq. ft.
- + Smith + Andersen Mechanical



RENDERING COURTESY OF GH3 INC.



# WINDERMERE FIRE STATION 31

## ABOUT THIS PROJECT

- + Serves an existing community in southwest Edmonton.
- + Resembles historic city fire halls (with a modern twist).
- + Consists of post-disaster, non-combustible, and sprinklered spaces.
- + Sustainability was a significant focus for the design of this fire station.
- + Targeted Net Zero, making it the first Net Zero fire station in North America.
- + The City of Edmonton required the fire station to obtain LEED Silver certification and meet the city's own 40 per cent better energy efficiency and 40 per cent better greenhouse gas emissions (compared to NECB 2011) standard.
- + Mechanical design focussed on designing not only a functional emergency response facility, but a facility that serves the community as a hub.
- + Energy efficient design incorporated geothermal features in order to achieve low energy usage for the Net Zero target.

**LOCATION**  
Edmonton, AB

**SMITH + ANDERSEN**  
**SERVICES PROVIDED**  
Mechanical

**SIZE**  
15,500 sq. ft. (1,440 sq. m.)

**BUDGET**  
Confidential

**COMPLETION YEAR**  
2020

**SUSTAINABILITY**  
Net Zero (Targeted)  
LEED Silver (Targeted)  
Edmonton 40-40-80 (Targeted)

**AWARDS**  
Canadian Architect, *Award of Excellence* (2018)

## HOT BUTTONS

FIRE STATION

MECHANICAL DESIGN

SUSTAINABLE DESIGN

NET ZERO

LEED SILVER

NECB 2011

EDMONTON 40-40-80

GEOHERMAL



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