



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



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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 STATIONS

MECHANICAL

SUSTAINABLE

NET ZERO

LEED

GEO THERMAL



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