



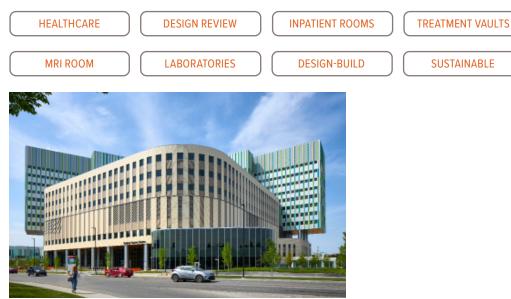


# ARTHUR J.E. CHILD COMPREHENSIVE CANCER CENTRE

## **ABOUT THIS PROJECT**

- + Centralizes treatment and care for cancer patients.
- + 160 inpatient beds, 13 Linear Accelerator (LINAC) vaults, two innovation treatment vaults, more than 100 patient exam rooms, and more than 100 chemotherapy chairs.
- + Engaged as a key member of the mechanical consulting team.
- + Ambitious energy targets and construction milestones required an integrated design approach, allowing team members across disciplines to collaborate in real time.
- + Leverages air handling unit (AHU) with energy consumption of approximately one watt per CF, and low flow plumbing fixtures throughout the building.
- + Equipped each vault and MRI room with a pre-action sprinkler system.
- + Dedicated equipment on site provides domestic water, natural gas, sanitary systems, steam, chilled water, and pneumatics.
- + Equipped isolation rooms and departments to maintain pressure controls across adjacent areas to avoid contamination.
- + Key factors in the facility design include mercury reduction, enhanced air quality, environmental site assessments, and direct exterior access and places of respite.
- + Designed laboratory fume hood exhaust, nuclear exhaust, and hazardous material exhaust systems to safely and effectively remove the contaminate at the source.

## **HOT BUTTONS**



LOCATION Calgary, AB

SMITH + ANDERSEN SERVICES PROVIDED Mechanical, Sustainability (Footprint)

#### **KEY TEAM MEMBERS**

Alberta Infrastructure Alberta Health Services DIALOG Stantec PCL Construction

**SIZE** 1,367,000 sq. ft. (127,000 sq. m.)

**BUDGET** \$1.4 Billion

COMPLETION YEAR 2023

> CERTIFICATIONS LEED® Gold

### AWARDS

Building Engineering -Institutional Award of Excellence (2025)

> Sustainable Design- Award of Merit(2025)

Building Transformation Innovation Spotlight Awards, Project Delivery, Asset Management & Lifecycle Award (2022)

American Concrete Institute Alberta Chapter Awards, Award of Excellence in Concrete – Buildings Category (2022)

> CanBIM Innovation Spotlight Awards, *Design & Engineering* (2018)