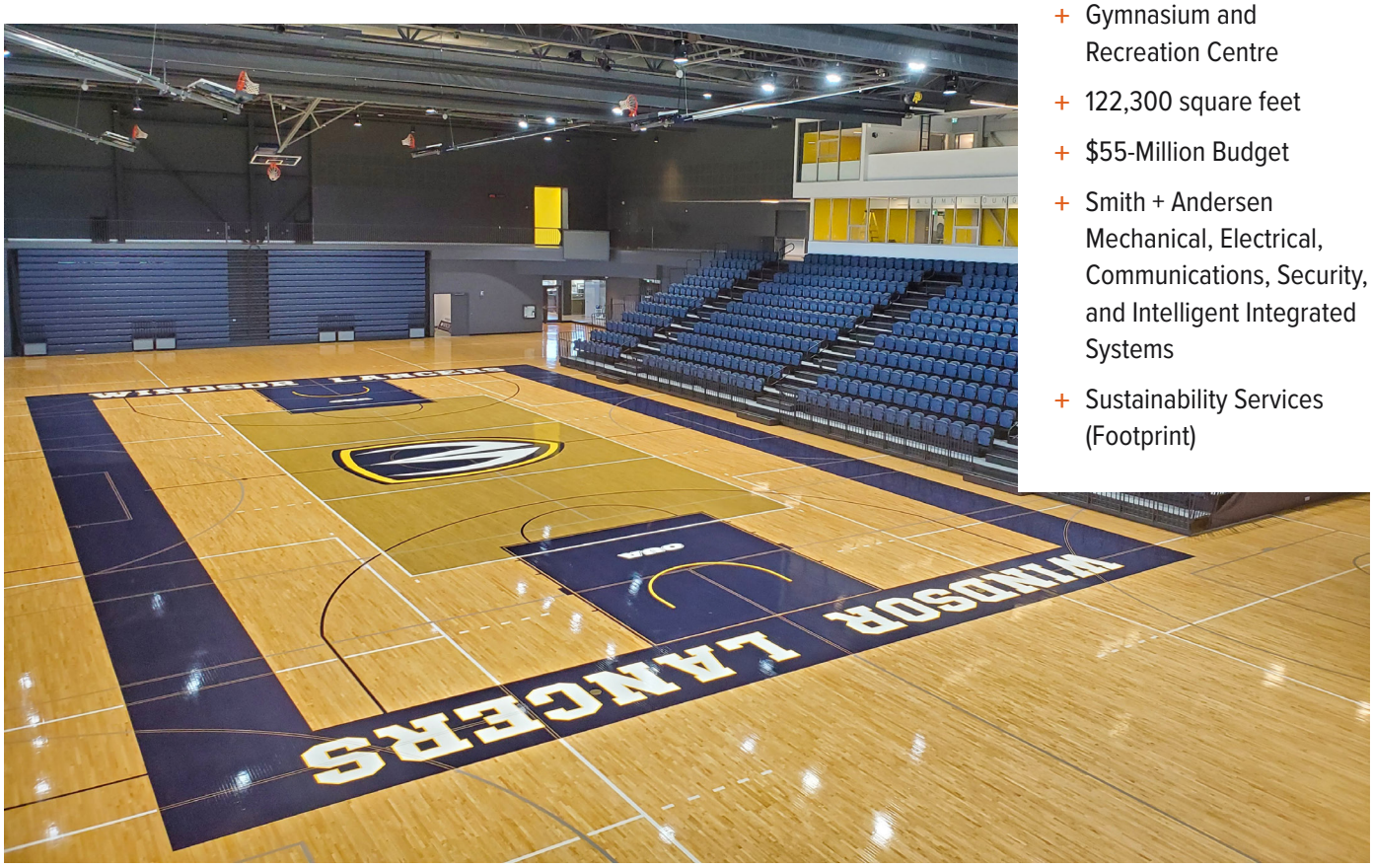
TOLDO LANCER CENTRE

Windsor, ON



QUICK FACTS

+ Design-Bid
+ Gymnasium and Recreation Centre
+ 122,300 square feet
+ $55-Million Budget
+ Smith + Andersen Mechanical, Electrical, Communications, Security, and Intelligent Integrated Systems
+ Sustainability Services (Footprint)

TOLDO LANCER CENTRE

ABOUT THIS PROJECT

- Construction of a new sport and recreation facility, integrated with the existing 63,000-square foot St. Denis Centre, on the University of Windsor campus.
- Project scope includes a three-court gymnasium with seating for 2,000, an eight-lane, 25-metre indoor pool, a suspended three-lane recreational jogging track, a fitness centre, alumni lounge, three multi-purpose areas, a social hub, change rooms, the expansion of outdoor facilities, and the relocation of the existing main entrance.
- The mechanical design is divided by four different main areas to accommodate different conditions, user activity, and occupancy.
- Lighting controls in the gymnasium are designed for individual fixture control, and integrated with the audio-visual system.
- Installation of timed and PIN-based access systems to the facility meet the University of Windsor's security requirements while accommodating visiting teams.
- All fitness areas are served by a demand ventilation system based on CO_2 levels.
- The pool and gym change rooms have dedicated enthalpy recovery units that use the energy of exhausted air to stream and circulate fresh air.
- Gym air handling units feature a cross-over duct arrangement to allow flexibility in the triple height gym's function and occupancy rate, and additional sustainability options are provided by allowing coil by-pass and economizer mode.
- The electrical design included upgrades to existing medium voltage systems to accommodate the new facility.
- The pool water system filtration and recirculation design included a regenerative media filter with high filter exchange rates, and CO_2, pH, chlorine and UV filtration to capture micro containments.
- A power monitoring system allows facility management to monitor the energy consumption of the new building.

LOCATION
Windsor, ON

SMITH + ANDERSEN SERVICES PROVIDED
Mechanical, Electrical, Communications, Security, Intelligent Integrated Systems, Sustainability (Footprint)

KEY TEAM MEMBERS
CS&P Architects
Colliers
EllisDon
Fortis Group
HCMA Architecture + Design

SIZE
122,300 sq. ft. (11,360 sq. m.)

BUDGET
$55 Million

COMPLETION YEAR
2022

HOT BUTTONS

DESIGN-BID | POST-SECONDARY | RECREATION CENTRE | SECURITY

MECHANICAL DESIGN | ELECTRICAL DESIGN | COMMUNICATIONS