

Town of Aurora

Attachment 1

Capital Projects

Project	72478 Sports Dome - Air Conditioning		
Department	Community Services		
Version	Draft 2	Year	2023

Financial Information								
	Budget		10-Year Plan					
	Previously Approved Budget	Capital Budget Authority	Budget Change	Actuals to Dec 31/2021	2022 Forecast	2023	2024	2025-2032
Expenditures								
Estimated Expenditures								
CONTRACTS		155,000	155,000			155,000		
		155,000	155,000			155,000		
Expenditures Total		155,000	155,000			155,000		
Funding								
Infrastructure Sustainability Reserves								
BLDG, FURN & FIX R&R RESERVE						155,000		
						155,000		
Funding Total						155,000		

TARGET START DATE AND END DATE: Use format Q4 2017 - Q1 2018

Q2 2023 - Q4 2023

Provide a brief overview of the project and include the key goals, objectives and performance measures.

Installation of an Air Conditioning system in the Sports Dome.

Provide the reasons the project should be approved and what will be the impact of the project to service levels.

The dome has one main supply air unit that is the primary source of air to pressurize the dome, this keeps the dome inflated. The unit also provides heat in the dome in the winter months. The office and change rooms are heated and air conditioned via small rooftop units. The actual sports dome is not air conditioned.

The supply air unit was originally equipped with a cooling coil. The coil was removed at some point in its operation to reduce the pressure loss at the fan inlet. A report prepared prior to the purchase indicated the coil could be reinstalled and the associated cooling equipment purchased/ installed to provide the dome with air conditioning. A portion of Project # 72460 (\$40K) was to reinstall the coil, however upon further investigation, the manufacturer of the unit confirmed the existing coil was not suitable for reuse as it was designed to be used in conjunction with a chilled water system rather than a direct expansion (gas) system. A chilled water system cannot be used as the building Electrical service is insufficient. This budget estimate includes engineering services required to assist with design specifications, supply and installation of new coil, condenser, controls, and electrical provisions

Explain the benefits of the project which could include Citizen/Client, compliance, financial, internal, learning & growth or utility benefits.

The air temperature in the dome during the hot summer months would be tempered to reduce the heat and humidity inside the dome. It should be noted that due the size of the dome, the amount of air, no insulation and environmental factors the system will help to reduce the overall temperatures but does have limitations.

Town of Aurora

Capital Projects

Project	72478 Sports Dome - Air Conditioning		
Department	Community Services		
Version	Draft 2	Year	2023

Please provide an explanation of what the outcomes would be if the project was not approved.
Temperatures inside of the dome could make the space unusable during extreme weather. This would result in a loss of revenue and impact to programs