

AGENDA BRIEFING FORUM 6th October 2020

LeisureFit Booragoon Refurbishment Works



Current Condition of Leisure Pool and 50m Pool Halls

- Tiling in both pools is in need of replacement.
- The leisure pool reinforced concrete shell is deteriorating.
- Both pool balance tanks require recoating.
- Both pool hall decks require retiling.
- Both pool halls require repainting (walls, ceilings, exposed steel beams).
- The change room facilities require refurbishment.
- The Heating, Ventilation & Air Conditioning systems (HVAC) servicing the pool halls are at end of life and need renewal.

Structural Condition Audit Findings

Leisure Pool:

- Serious deterioration of the concrete pool shell
- The compressive strength of the concrete pool shell was found to be below design specification.
- Deflection of the eastern pool wall has occurred

50m Pool:

- Localised corrosion and minor cracking in areas
- Tiles faded and grouting discoloured.

Leisure Pool - Corrosion





Leisure Pool - Gutters





Leisure Pool East Wall Deflection





50m Pool Condition



Leisure Pool Refurbishment Options

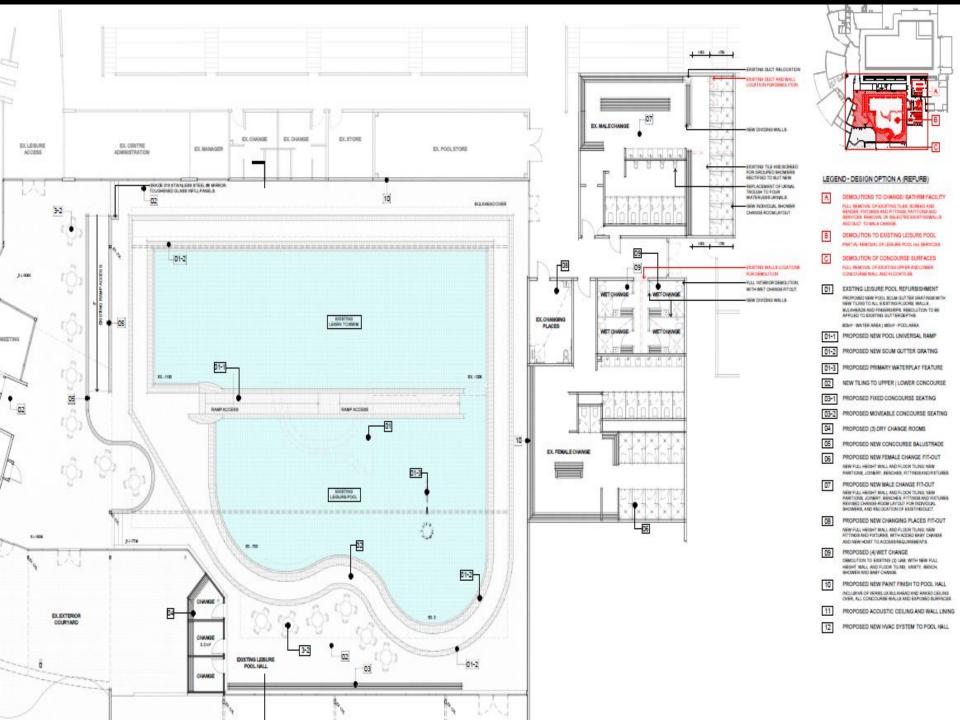
Donovan Payne Architects have developed design options:

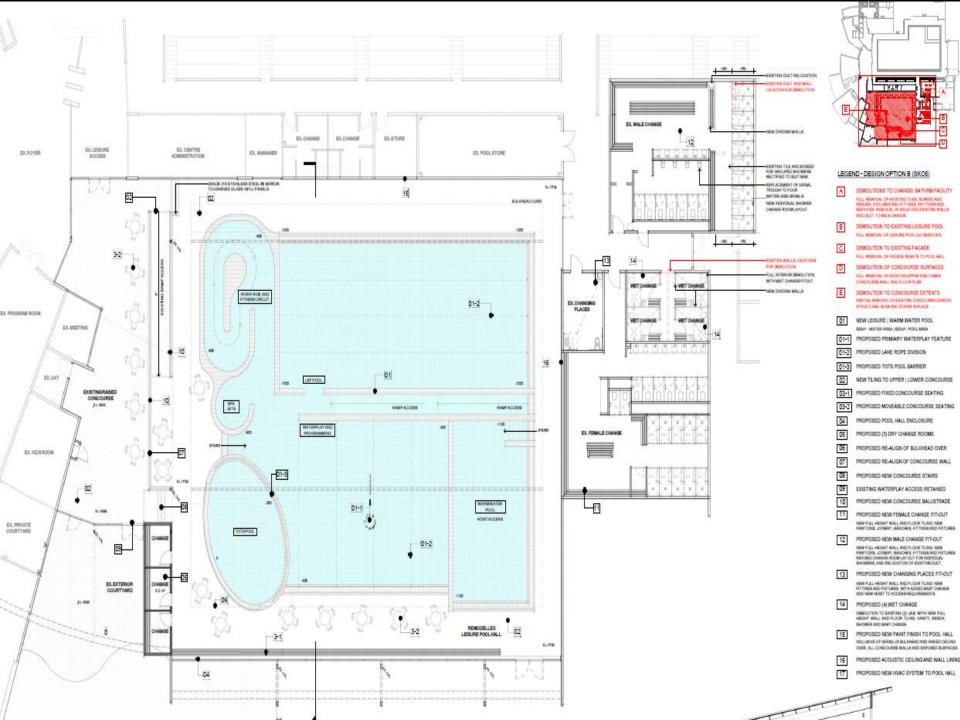
Option A:

- Partial demolition and repair of the existing concrete pool shell and retile.
- Provide enhanced support infrastructure.

Option B:

- Full demolition of existing pool shell and construct contemporary multi-functional leisure pool.
- Provide enhanced support infrastructure.





Leisure Pool Refurbishment Option A – Associated Risks

The following Risks are associated with Option A, HIGH likelihood of occurrence:

- Discovery of further concrete shell deterioration during works
- Various issues arising from abutting different strength concretes in the pool shell:
 - Constructability
 - Contractor Warranties
 - Potential for long term maintenance issues

Consequences:

- Downtime and extended construction period.
- Cost of repairs rise considerably.
- Potentially the works are aborted to revert to Option B.
- Abort costs estimated by Rawlinsons to be \$550,000



Leisure Pool Refurbishment Options Cost Comparison

Option A:

Project Cost \$3,582,453

Adjusted for Risk:

Abortive risk cost \$ 550,000 Extra-over cost to construct Option B \$1,264,214 Total risk adjusted Project Cost \$5,396,667

Option B:

Project Cost <u>\$4,846,667</u>



Leisure Pool Refurbishment Option B – Additional Benefits

Warmer Water Program Pool:

 Better suited to programs for seniors, babies and rehabilitation.

Increased Programmable Space / Multi -Functional use:

- Current design is poor for learn to swim.
- Design more suited to community groups and health professionals

Dedicated Program Spaces

 Current Leisure Pool results in conflicts between walkers, swimmers, play & programs.



Leisure Pool Refurbishment Recommendation

Adopt Option B for the refurbishment of the Leisure Pool as it provides a superior outcome with lower risks

Option B:

- Presents opportunities to enhance the services offered by the City to the community
- Presents less risk to the City compared to Option A –
 both short term and long term
- Presents a higher quality, higher value for money solution on a risk-adjusted basis



The City will appoint a design team to document a refurbishment solution for the 50 metre pool.

- Deliverables include:
 - Repair and resurfacing of the concrete pool shell.
 - Retile pool concourse.
 - Repaint walls and ceiling.
 - Findings from DAIP Audit.

Rawlinsons have prepared an opinion of costs for the works, estimated at \$1,569,000

HVAC System Renewal





HVAC System Renewal





Norman Disney Young were appointed to develop a HVAC solution for the Leisure & 50m Pool Halls.

The renewed HVAC system will deliver:

- A measureable improvement in indoor air quality by increased air supply and exhaust flow rates.
- An improvement in occupant comfort levels for swimmers, spectators and staff.
- Be energy efficient and environmentally sustainable.
- Be regularly fine-tuned to achieve optimum performance.

Rawlinsons have estimated the works associated with the HVAC renewal at \$686,507



Existing Budgets/Estimated Costs

Approved Budgets:	
18/19 CWP:	
50m pool (Available from Reserves)	\$ 1,025,000
20/21 CWP:	
Leisure Pool	\$ 2,655,909
50m Pool (Design) + HVAC	\$ 892,237
Sub-Total	\$ 4,573,146
Estimated Costs:	
Leisure Pool - Option B	\$ 4,846,667
50m Pool	\$ 1,569,000
HVAC	\$ 686,507
Sub-Total	\$ 7,102,174

- Additional funding of \$2,529,028 required to complete all works
- Required to facilitate issue of construction tender majority of funding will be spent in the 2021-2022 and 2022-2023 financial year



LeisureFit Booragoon Refurbishment Project Milestones

Issue Request for Tender

Award Contract

Site Commencement

HVAC Completion

50m Pool Completion

Leisure Pool Completion

May 2021

September 2021

October 2021

June 2022

June 2022

October 2022



LeisureFit Booragoon Refurbishment Pool Closure Mitigations

- The Leisure Pool will be closed for 52 weeks between October 2021 and October 2022
- The 50m Pool will be closed for 35 weeks between October 2021 and June 2022
- The financial impact associated with reduced pool patron revenue based on the above is estimated to be approx. \$1.4m to \$1.5m

Pool Closure Mitigations:

- Use of school pools out of hours for continuation of programs
- Facilitate increased public access to Melville Water Polo Pool
- Communication strategy to update and engage swimmers during closure

LeisureFit Booragoon Refurbishment

Questions?