

CAPITAL PROFILE REPORT

PROFILE NAME:	99 STREET AND JUDY PADUA WAY STREETScape & WATERPROOFING	FUNDED
PROFILE NUMBER:	23-12-9202	PROFILE STAGE: Approved
DEPARTMENT:	Integrated Infrastructure Services	PROFILE TYPE: Standalone
LEAD BRANCH:	Infrastructure Delivery	LEAD MANAGER: Craig Walbaum
PROGRAM NAME:		PARTNER MANAGER: Pascale Ladouceur
PARTNER:	Infrastructure Planning and Design	ESTIMATED START: November, 2023
BUDGET CYCLE:	2023-2026	ESTIMATED COMPLETION: December, 2026

Service Category:	Roads	Major Initiative:
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GROWTH	RENEWAL	PREVIOUSLY APPROVED:	16,272
48	52	BUDGET REQUEST:	-
		TOTAL PROFILE BUDGET:	16,272

PROFILE DESCRIPTION

The project area includes the road ROW along 99 Street from just north of Jasper Avenue to just south of 102 Avenue, and the road ROW along Judy Padua Way from 99 Street to 100 Street. It has two major components: 1) Waterproofing of underground structures, and 2) Streetscaping

1) Waterproofing:

The City of Edmonton-owned Library Parkade is located underneath 99 Street, between 101a Avenue and 102 Avenue. The waterproofing membrane is known to be in poor condition and has previously been identified for replacement in the 2023-2026 Capital Budget Cycle. Work will involve rehabilitation of the concrete roof slab, installation of a new waterproofing membrane, ACP roadway surface, and concrete sidewalk topping. The Westin Pedway has exhibited leaks that to rectify requires a waterproofing system rehabilitation as well.

2) Streetscaping:

Incorporating Green and Walkable principles of pedestrian and cyclist priority, trees and greenery, and quality materials, while recognizing the vehicular functions of the roadway, while keeping consistent with the Downtown Streetscape Manual and considering the design aesthetics and materiality of adjacent projects (Valley Line LRT, Centennial Plaza, Jasper Avenue New Vision). The presence of the Library Parkade underneath the project area north of 101a Avenue limits the capacity of the road and sidewalk to handle extra weight. The design team will need to be creative in finding ways to provide visual interest within these constraints. This was done with the inclusion of some ground beds, benches, and some overhead catenary lighting. The catenary lighting comprises small globe string lights supported by aircraft cable across 99 Street.

This project will fill a gap in the downtown bicycle infrastructure network, connecting Jasper Avenue with 102 Avenue. This new dedicated bi-directional cycle track will be at sidewalk elevation, separated from both traffic and pedestrians.

PROFILE BACKGROUND

Library Parkade Condition:

The City of Edmonton-owned Library Parkade is located underneath 99 Street, between 101a Avenue and 102 Avenue. The waterproofing membrane is known to be in poor condition and has previously been identified for replacement in the 2023-2026 Capital Budget Cycle. Work will involve rehabilitation of the concrete roof slab, installation of a new waterproofing membrane, ACP roadway surface, and concrete sidewalk topping.

Westin Pedway Condition:

The Westin Pedway connection between the Westin Hotel and the P2 level of this Library parkade has exhibited leaks for many years, resulting in water leakage and staining within the pedway in several locations. A replacement of the waterproofing membrane is required to rectify the leaks, which requires excavation of the tunnel surface. This project will provide repairs to the roof slab of the Pedway concrete and replace the waterproofing membrane at the top of the tunnel. No work will be completed on the interior of the tunnel as part of this project, however, the pedway will be repaired from the outside, so that at a future point, upgrades can be made to the interior of the tunnel.

PROFILE JUSTIFICATION

This project aims to provide Edmontonians with repairs to the Library Parkade and Pedway leakage, an enhanced Streetscape in alignment with the Green and Walkable initiative, and improve safety for all users of this section of 99 Street. Waterproofing work includes excavation of the roof slab, rehabilitation of the concrete roof slab, installation of a new waterproofing membrane, ACP roadway surface, concrete sidewalk topping, and new fireproofing on steel members. Streetscaping work involves reconstruction of the roadway, new tree cells, CBs, new street lighting, catenary lighting a new underground conduits/cable. It will also include relocating utilities, asphalt paving, reconstructing the roadway, curbs and sidewalks, new colored concrete sidewalks, new dedicated bike lanes, benches, and planters.

Neighborhood infrastructure should be maintained in accordance with its asset life cycle as outlined in the City's Neighborhood Investment Model. Utilization of a balanced approach of various capital improvement techniques (reconstruction, rehab, paving, micro-surfacing) to maximize asset value and asset life.

Anticipated Outcomes:

Sufficient funding levels will allow for all City neighborhoods to receive capital improvements within 30 years (2009 - 2038). Neighborhood project planning can occur two years prior to construction work, offering the opportunity to capitalize on longer-term contracts and achieve greater value for money.

Urgency of Need:

Need to create and maintain stable/predictable funding to meet renewal needs of (aging) current and future neighborhoods (because of population and demographic trends).

Significant leakage increases urgency, as further degradation to the structure over time will increase damage and repair costs.

STRATEGIC ALIGNMENT

This initiative supports strategic outcomes within the City of Edmonton plan, such as:

1.2.1 Promote active communities through the design of diverse, welcoming, and playful public spaces

2.1.1 Ensure that publicly accessible spaces and facilities are designed and maintained for the year-round safety, security, and comfort of all users.

2.2.3.5 Prioritize the building, activation, and maintenance of beautiful, comfortable public spaces at nodes and corridors.

2.4.2 Ensure public buildings and infrastructure are sustainable and resilient.

2.4.2.5 Manage parking and curbside space as a strategic public asset.

4.1.1 Support inviting and inclusive transportation options for Edmontonians of all ages, abilities, and incomes.

4.1.1.4 Enhance Street design through building and renewal to improve connectivity, amenity space, and beauty.

4.1.2 Ensure the safety of all users in the planning and design of city infrastructure, networks, and spaces.

4.2.3 Ensure active transportation networks serve a variety of purposes including recreation, commuting, commerce, and fun.

4.2.3.3 Develop and maintain safe, high-quality cycling facilities.

ALTERNATIVES CONSIDERED

Do Nothing - With continued leakage and degradation to the Parkade/Pedway, the life expectancy decreases, and maintenance costs increase. This option is not recommended as the existing condition is degrading at a rapid pace, costs to reinstate the structure to an acceptable condition will increase greatly over time.

An alternative solution to the streetscape work is to replace the infrastructure like for like without constructing any improvements to the existing roadway elements, such as maintaining the existing sidewalk, and road space. However, this would not align with the overall City goals and plan objective of making the space green and walkable, especially with 99 Street being part of the downtown signature street.

COST BENEFITS

Reconstruction is required to replace the Waterproofing on the Parkade and Westin Pedway. Growth opportunity to enhance streetscape at the same time.

Tangible benefits: renewing/maximizing service life of aging infrastructure and improving the roadway, public realm, and streetscape.

Intangible benefits: enhancing the attractiveness of the area, offering more active modes options, and improved lighting to enhance safety.

KEY RISKS & MITIGATING STRATEGY

Encroachment with the Citadel Theatre property. permits are required for development.

Asbestos is present in the ceiling insulation within the Edmonton Public Library parkade. Full removal is recommended. resulting in a temporary closure of a portion of the Parkade and EPL rooms.

Safe separation of public uses in the planned streetscape. The use of rolled and v-gutters may increase pedestrian use of the roadway outside of signaled crossings and/or vehicle access to pedestrian and biking areas. Strategic use of bollards/planters, signage, and light locations planned.

Underground utilities - congested area.

RESOURCES

This project will be led by the IIS team. External consultants and contractors will be retained to complete the design and construction as required. Multi-year construction contracts for Transportation projects will be coordinated with utility stakeholders and other City initiatives to optimize cost savings and investments.

CONCLUSIONS AND RECOMMENDATIONS

This profile be approved for construction of the 99 Street and Judy Padua Way Streetscape and Waterproofing project.

CAPITAL PROFILE REPORT

PROFILE NAME: **99 Street and Judy Padua Way Streetscape & Waterproofing**
 PROFILE NUMBER: **23-12-9202**
 BRANCH: **Infrastructure Delivery**

FUNDED
 PROFILE TYPE: **Standalone**

CAPITAL BUDGET AND FUNDING SOURCES (000's)

	Prior Years	2023	2024	2025	2026	2027	2028	2029	2030	2031	Beyond 2031	Total	
APPROVED BUDGET	Approved Budget												
	Original Budget Approved	-	-	-	-	-	-	-	-	-	-	-	
	2023 Cap Council	-	1,018	7,700	7,053	500	-	-	-	-	-	16,272	
	Current Approved Budget	-	1,018	7,700	7,053	500	-	-	-	-	-	16,272	
	Approved Funding Sources												
	Debt CRL Downtown	-	761	3,546	3,520	-	-	-	-	-	-	-	7,826
	Local Government Fiscal Framework	-	-	3,808	3,172	-	-	-	-	-	-	-	6,981
	Munc Sustain. Initiative - MSI	-	249	205	242	483	-	-	-	-	-	-	1,179
	Pay-As-You-Go	-	9	140	119	17	-	-	-	-	-	-	286
	Current Approved Funding Sources	-	1,018	7,700	7,053	500	-	-	-	-	-	-	16,272

BUDGET REQUEST	Budget Request	-	-	-	-	-	-	-	-	-	-	-
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REVISED BUDGET (IF APPROVED)	Revised Budget (if Approved)	-	1,018	7,700	7,053	500	-	-	-	-	-	16,272
	Requested Funding Source											
	Debt CRL Downtown	-	761	3,546	3,520	-	-	-	-	-	-	7,826
	Local Government Fiscal Framework	-	-	3,808	3,172	-	-	-	-	-	-	6,981
	Munc Sustain. Initiative - MSI	-	249	205	242	483	-	-	-	-	-	1,179
	Pay-As-You-Go	-	9	140	119	17	-	-	-	-	-	286
	Requested Funding Source	-	1,018	7,700	7,053	500	-	-	-	-	-	16,272

CAPITAL BUDGET BY ACTIVITY TYPE (000's)

	Activity Type	Prior Years	2023	2024	2025	2026	2027	2028	2029	2030	2031	Beyond 2031	Total
REVISED BUDGET (IF APPROVED)	Construction	-	346	7,234	6,573	-	-	-	-	-	-	-	14,154
	Design	-	637	205	242	483	-	-	-	-	-	-	1,567
	Other Costs	-	34	260	239	17	-	-	-	-	-	-	550
	Total	-	1,018	7,700	7,053	500	-	-	-	-	-	-	16,272

OPERATING IMPACT OF CAPITAL

Type of Impact:

Branch:																
	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE	Rev	Exp	Net	FTE
Total Operating Impact	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-