
CEA Transportation Conference

Capital Planning, Grants and Engineering Services Division Update

Paul Smith, Assistant Deputy Minister

Ranjit Tharmalingam, Assistant Deputy Minister

March 11, 2024



Agenda

- 2023 Recap
- Budget 2024
- Procurement and Grants
- TSB – Innovation and Updates
- Passenger Rail

2023 Recap

2023-24 Consulting Work

- Contracts executed* = 75
- Total Contract value = \$91 million
- Ranking Lists Issued:

Major Bridge	Standard Bridge & Culvert	ACP (incl. GBC)	Grading
7 project bundles	9 project bundles	21 project bundles	10 project bundles

*Anticipated contracts to end of fiscal year

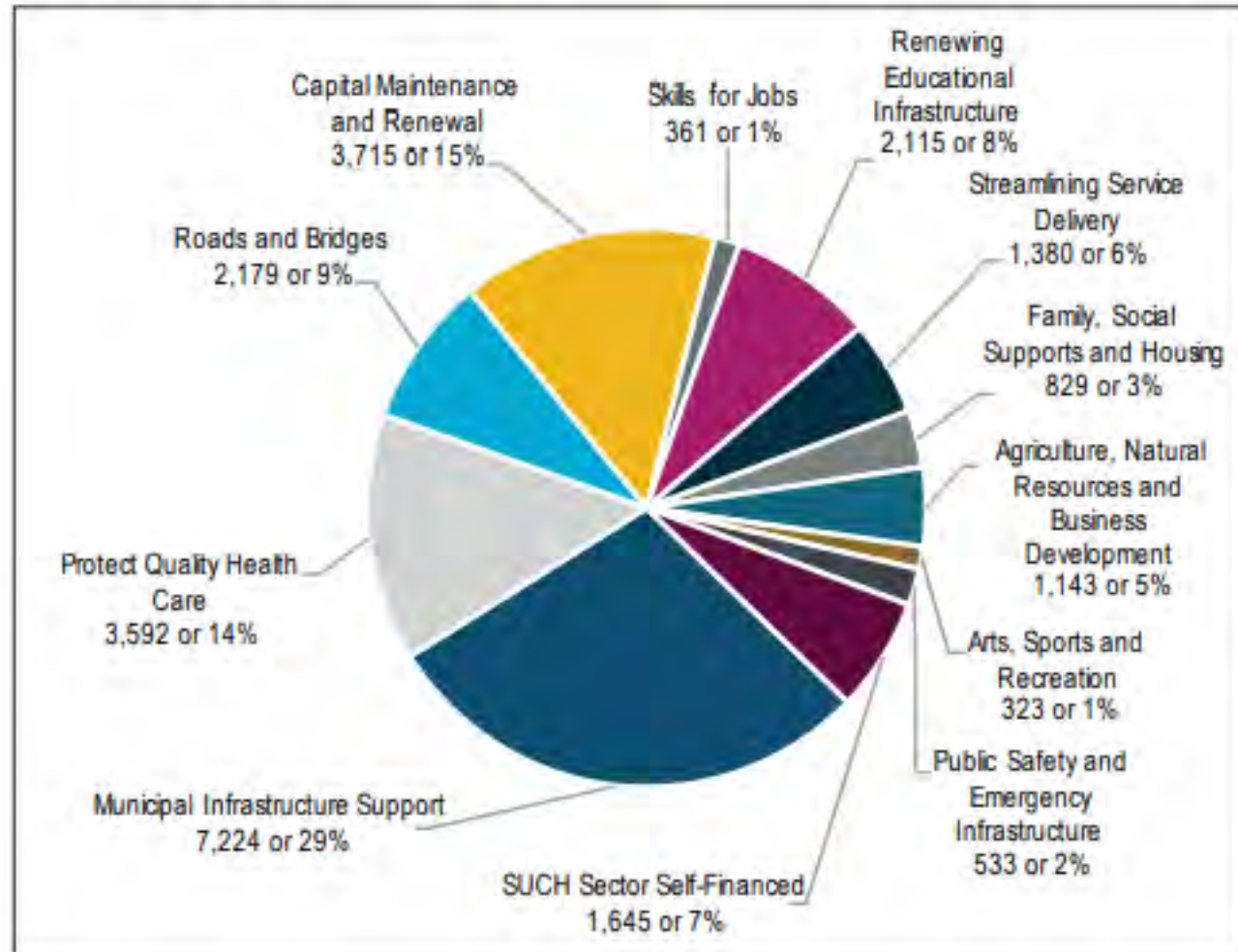
Historical Consulting Award Amounts

Fiscal Year	Number of Contracts	Total Awarded
2023-24	75	\$91,000,000
2022-23	76	\$82,000,000
2021-22	81	\$89,000,000
2020-21	86	\$72,500,000
2019-20	13	\$6,000,000
2018-19	107	\$81,500,000

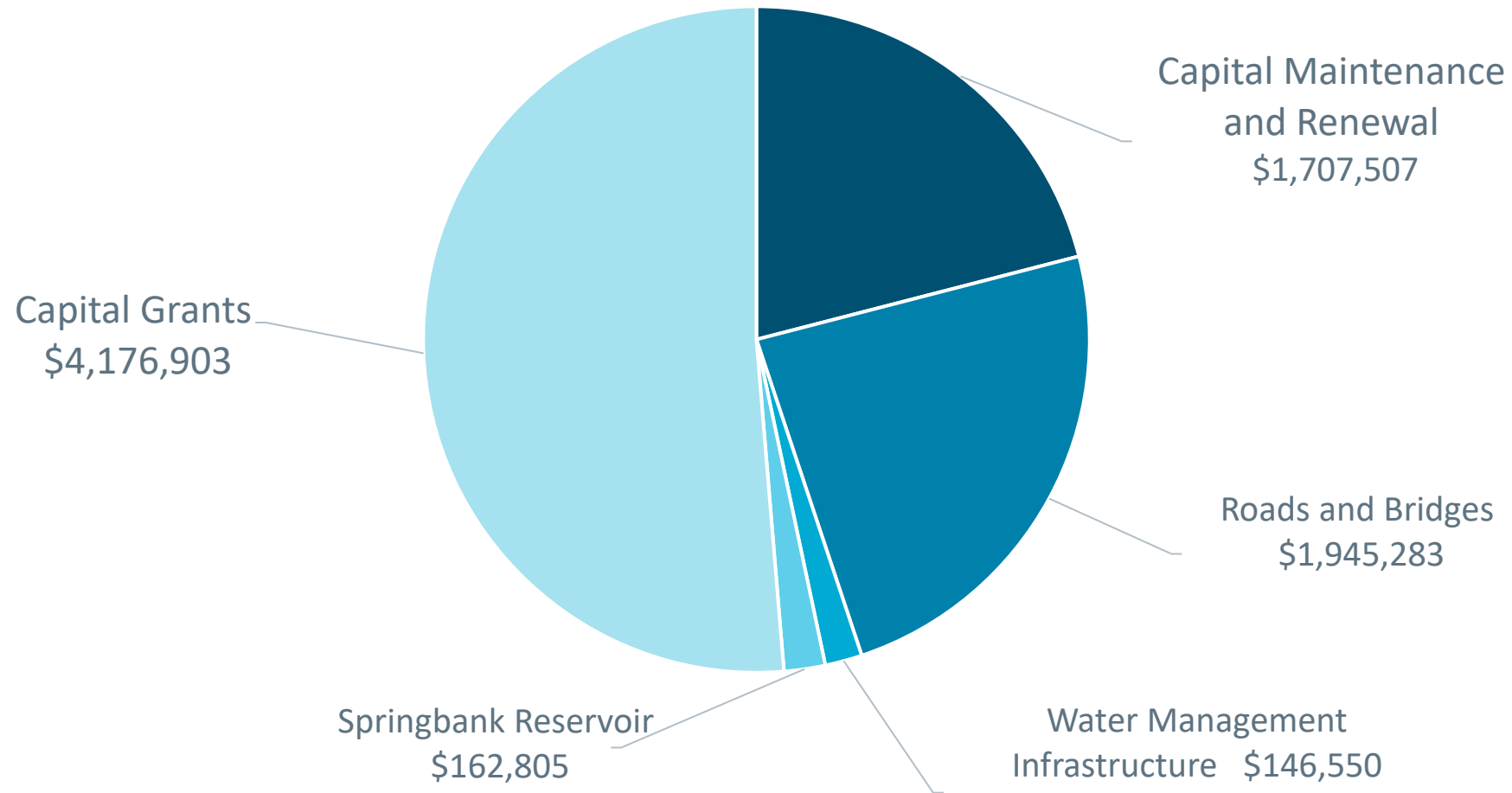
Budget 2024

Budget 2024 – Capital Plan

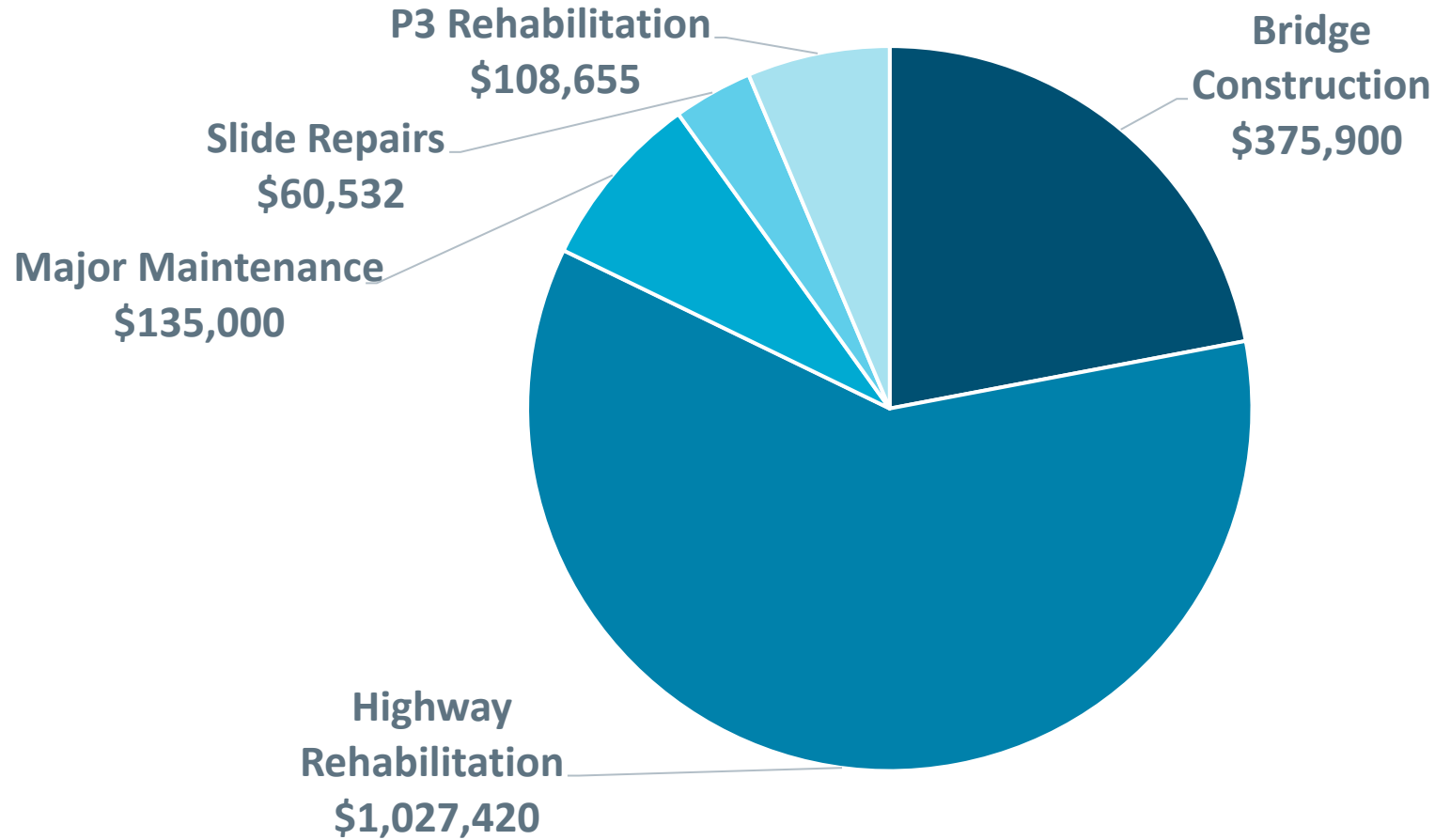
Budget 2024 – Capital Plan Envelopes
(millions of dollars)



Budget 2024 – TEC Budget Breakdown



Budget 2024 – Capital Maintenance and Renewal



Economic Corridors

- We see key economic corridors as critical parts of bringing goods to market and supporting economic growth by providing safe and efficient highway connections.
- In 2024/25 Alberta Transportation and Economic Corridors made significant capital investments in Economic Corridors.
 - Over \$83 million is invested on 26 Roads and Bridges engineering projects to grow economic corridors.
 - Over \$1.35B million is invested on 173 Capital Maintenance and Renewal projects to enhance existing economic corridors.

Procurement and Grants

Industry Procurement Forum

Held on October 26, 2023 the main themes of the forum included:

- Risk Allocation
- Predictability / Certainty
- Cost Escalation
- Knowledge

Action Items

- Risk allocation working group – began Dec 2023
- Forum with RMA / MA
- Utility Forum
- Knowledge development

Consultant impact from budget

Additional engineering funding in Budget 2024 of \$100M over three years and \$170M in total.

- Early engagement of consultants
- Bundling of engineering projects
- Regional assignments

Capital Grants – Budget 2024

(\$ millions)	Budget 2024	Budget 2023
Provincial Grants		
Edmonton & Calgary LRTs	1,554.2	1,301.4
Transit and Transportation Grants ¹	621.5	385.7
Municipal Water Infrastructure Grants	539.3	415.5
Sub Total – Provincial Grants	2,715.0	2,102.6
Federal Grants		
Edmonton & Calgary LRTs (ICIP)	1,394.5	1,704.5
ICIP – Other	66.8	87.3
Clean Water Wastewater Fund ²	0.5	-
Sub Total – Federal Grants	1,461.8	1,791.8
Total – Provincial and Federal Grants	4,176.8	3,894.4

- 1) Includes projects such as: Yellowhead Trail Improvements, Strategic Transportation Infrastructure Program (STIP), Terwillegar Drive Expansion, Calgary Rivers District and Event Center, Ray Gibbon Drive and Red Deer Airport Expansion.
- 2) The allocation for the Clean Water Wastewater Fund in Budget 2024 reflects the carryover of funds that were not expended in previous years.

ACP Quantity Summary

Fiscal Year	Ring Roads (tonnes)	Highway Rehabilitation (tonnes)	Twinning, Other (tonnes)	Total (tonnes)
2020-21	890,000	2,340,000	127,000	3,357,000
2021-22	394,000	2,232,000	210,000	2,836,000
2022-23	530,000	2,025,000	322,000	2,877,000
2023-24	102,000	2,100,000	298,000	2,500,000
2024-25	-	1,945,868	436,700	2,382,568

- Estimated asphalt concrete pavement quantities for 2024-25 are based on approved budget.
- Total ACP is decreasing as Ring Roads are completed.



Technical Standards - Updates and Innovations

TSB - Innovations and Updates

Engineering
Consultant
Guidelines



TSB - Innovations and Updates

Bridges



TSB - Innovations and Updates

Highways

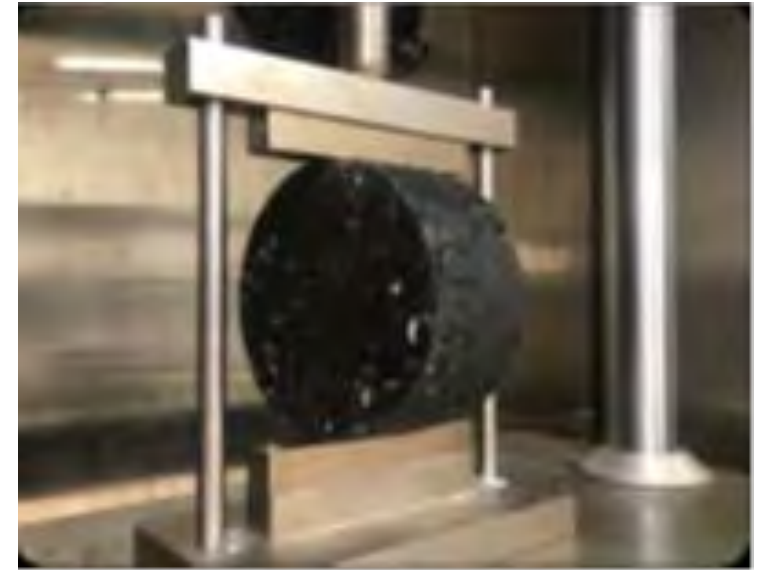


TSB - Innovations and Updates

Pavement

- Reprocessing of LCMS data

- Asphalt Mixes – High RAP mix



- Asphalt Mixes – Mix Performance Tests



TSB - Innovations and Updates

Environmental and Geotechnical



TSB - Innovations Considerations



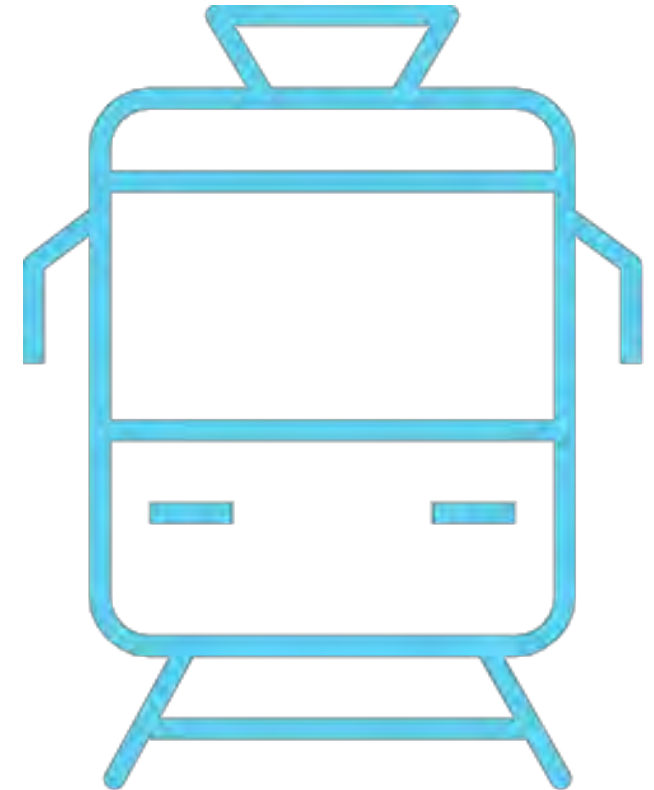
- Innovation as part of consultant evaluation and agreements
- Bridge resiliency
- Impact of temperature change on asphalt binder selection
- Portland Limestone Cement (GUL)



Passenger Rail

Passenger Rail

- TEC's Mandate Letter identified passenger rail priorities and the 2023 Throne Speech confirmed direction.
- Building internal capacity and resources – Passenger Rail Team
- Developing assessment and feasibility scope, stakeholder engagement strategies and action plans.



Calgary Airport Rail Connection Study



TEC is working directly with the City of Calgary and ARUP consulting services. The study includes a detailed ridership review and evaluation of alignment options.

Questions?

