



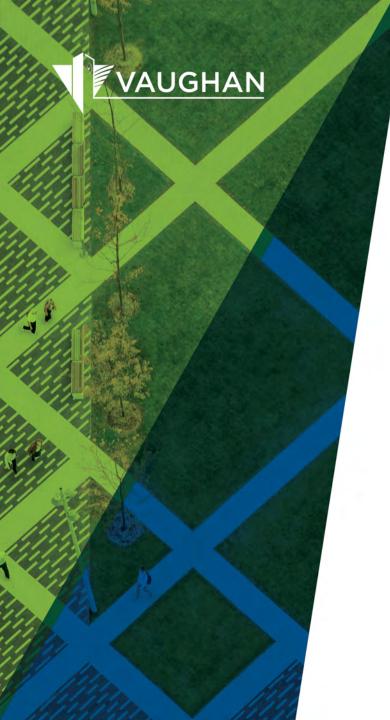
Agenda

Purpose: Present an overview of the Asset Management Plans (Core Assets) for Council endorsement.

- 1. Ontario Regulation 588/17
- 2. Asset Management Plans Approach
- 3. Asset Management Plans Levels of Service
- 4. Asset Management Plans Funding Needs Analysis



Once endorsed, the AMPs will be posted to the City's website as required by O. Reg. 588/17.



Core Assets

Water



Wastewater



Stormwater



Roads & Bridges





Strategic Alignment







Ontario Regulation 588/17: AM Milestone Dates

2022

AM Plans for "Core Assets" Approved by Council 2024

AM Plans for Remaining Assets Approved by Council

2019

AM Policy approved by Council



2021

Present AM Plans for "Core Assets" to Council Water
Wastewater
Stormwater
Roads & Bridges



Remaining Assets

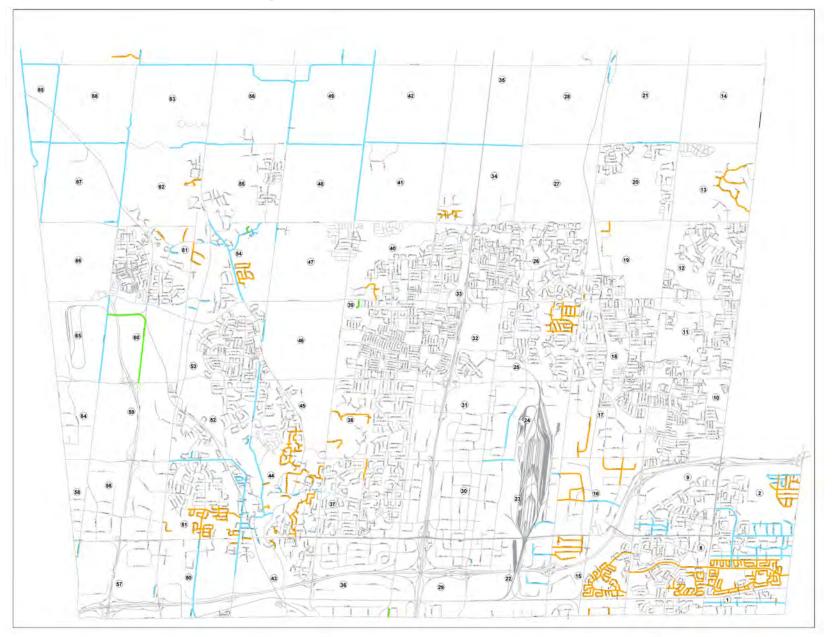
2025

All AM Plans to Include Funding Surplus/Shortfall Forecasting

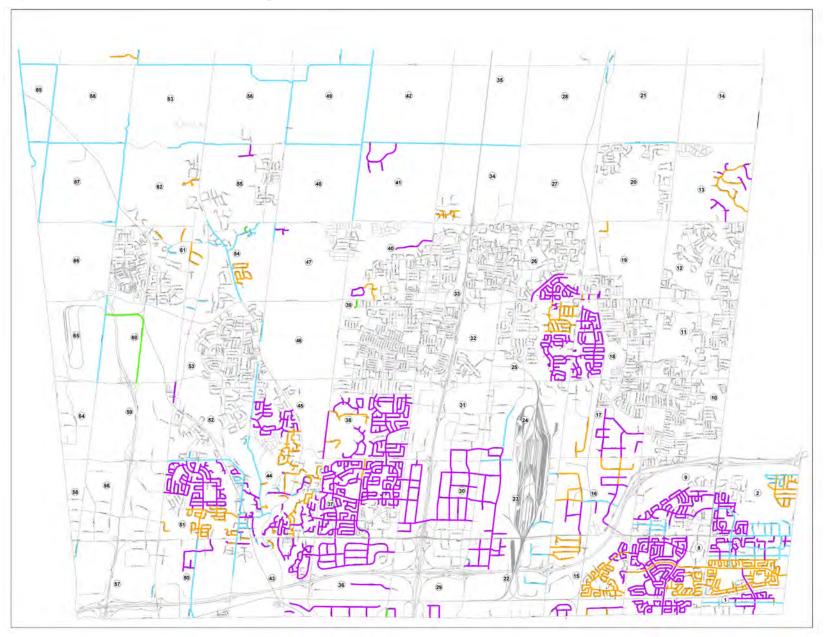




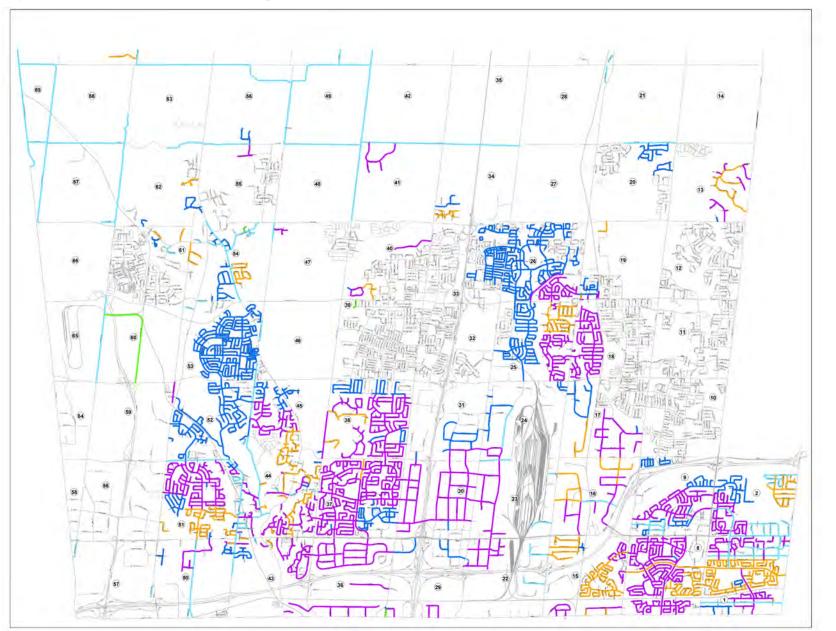


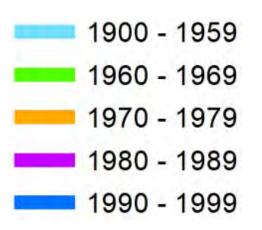


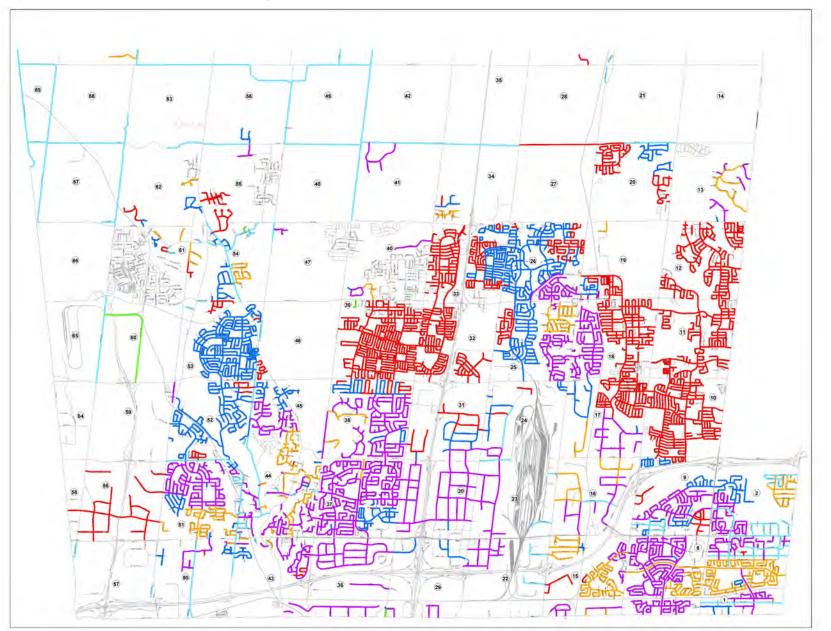




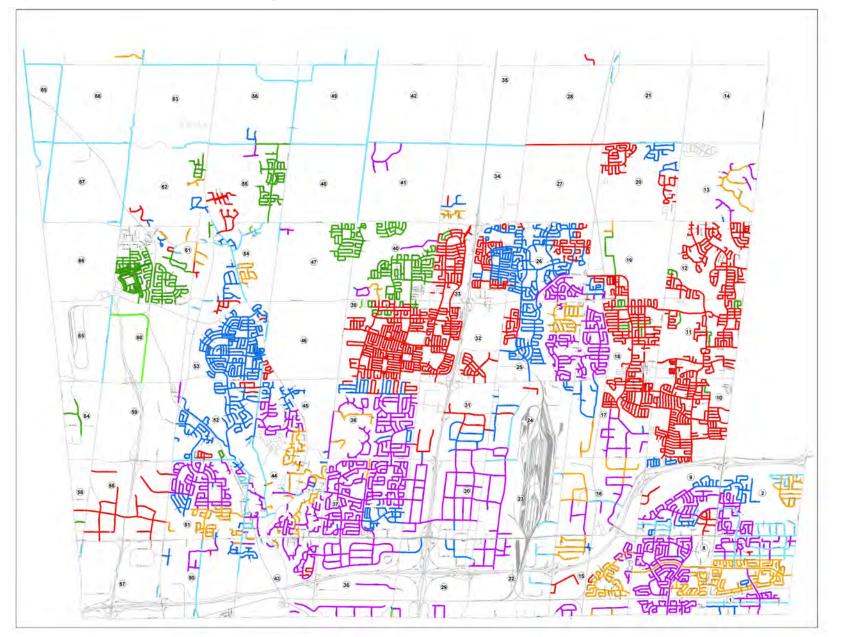






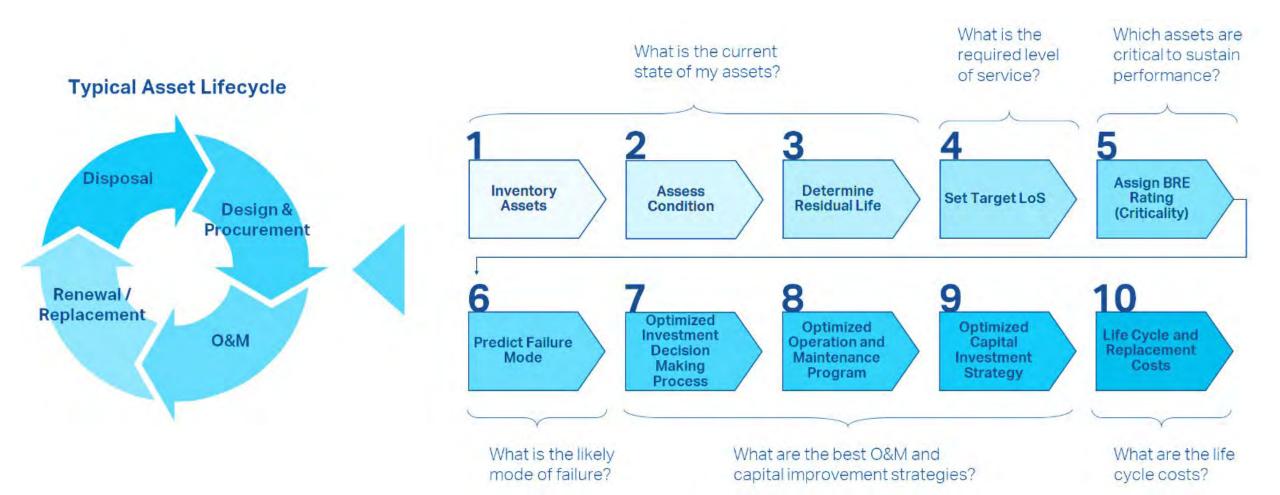






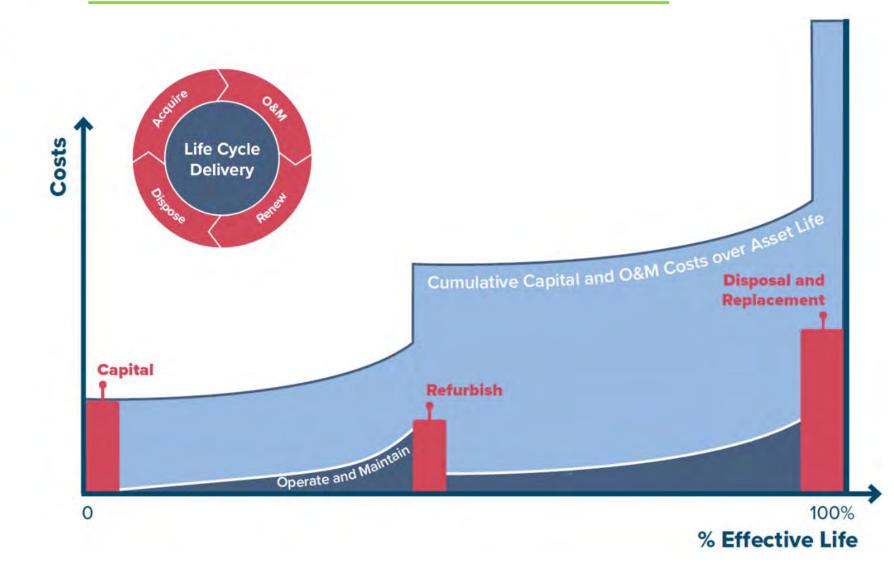


Asset Management Plans: Approach



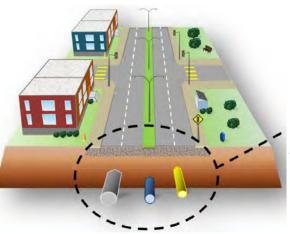


Asset Management Plans: Life Cycle Activities





Risk-Based Multi-Asset Lifecycle Management



Road Corridor Asset Management Integration

- Decision support system (dTIMS) formalizes a comprehensive approach to the risk-based optimization of capital funding allocations across multiple asset classes.
- Geo-coordination of capital projects across Road, Water, Wastewater and Stormwater assets can yield up to 20% in cost savings.
- Cross-asset geo-coordination also reduces duration of interruption impacts for the affected local community.



Water Asset Inventory



Components:	Inventory:
Chambers	10,421
Hydrants	10,309
Junctions	29,993
Service Connections (Commercial)	3,616
Service Connections (Residential)	87,943
Valves	52,642
Water Mains	1,146 km
Water Meters	91,081

Wastewater Asset Inventory



Components:	Inventory:	
Flow Meters	45	
Generator Station	1	
Laterals	246 km	
Manholes	16,174	
Pump Stations	12	
Sanitary Sewer Mains	1,000 km	

Stormwater Asset Inventory



Components:	Inventory:
Catch Basins	21,375
Culverts	177
Ditches & Devices	776
In/Out Structures	756
Laterals	226 km
Manholes	16,125
Storm Sewer Mains	1,213.5 km
Stormwater Management Ponds	153

Road Asset Inventory



Components:	Inventory:	
Collector Roads	744 lane km	
Laneways	15 lane km	
Rural Roads	110 lane km	
Urban Local Roads	1,273 lane km	

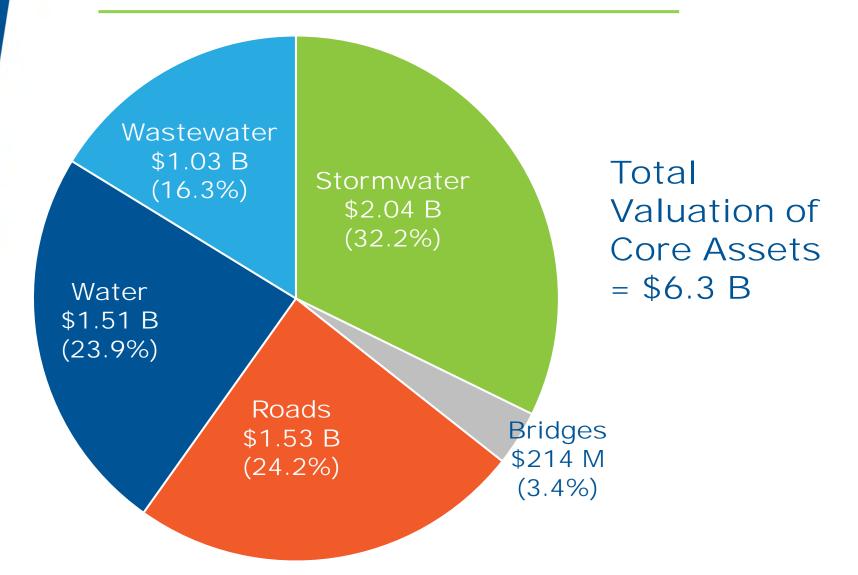
Bridge Asset Inventory



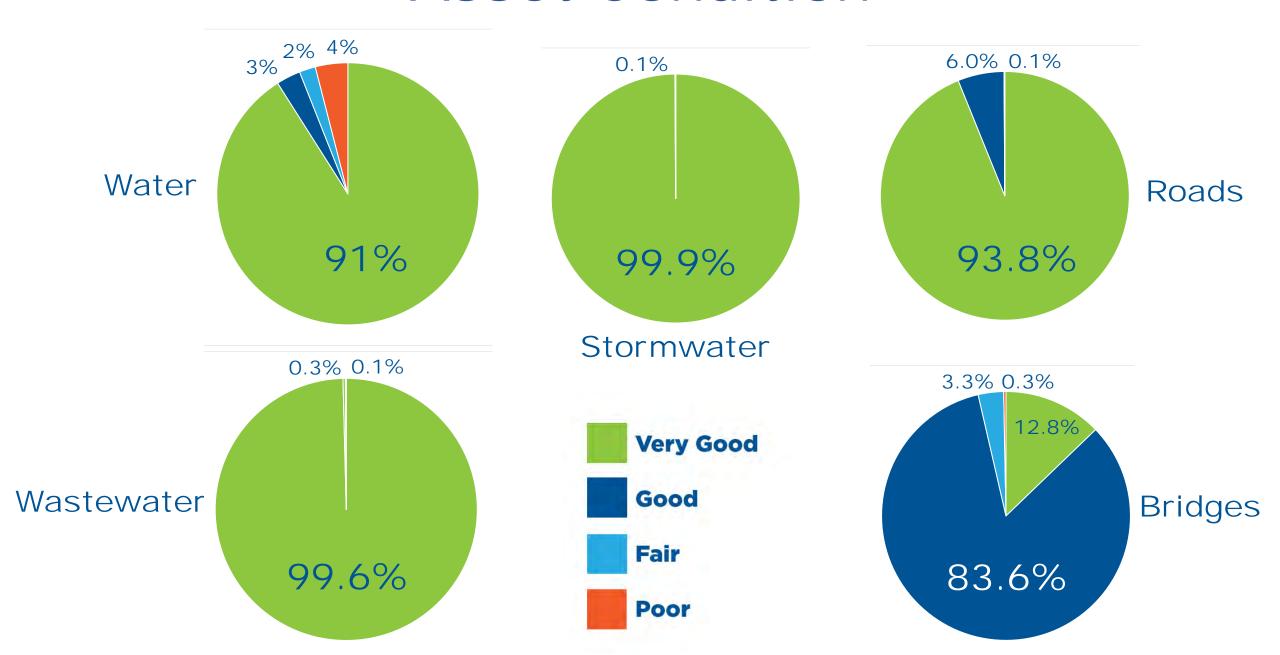
Components:	Inventory:
Bridges	33
Culverts	115
Pedestrian Bridges	41
Pedestrian Culverts	4



Total Asset Replacement Value



Asset Condition







Level of Service Measures

Major Asset Class	Community LOS Measures	Technical LOS Measures
Water	Map illustrating areas that are connected to the water system.	% of properties with access to the water system.
Wastewater	Map illustrating areas that are connected to the wastewater system.	% of properties with access to the wastewater system.
Stormwater	Map illustrating areas that are serviced by the stormwater system.	% of properties resilient to 100-year storm.
Roads	Images illustrating the different levels of road pavement conditions.	Average road pavement condition index value.
Bridges	Images illustrating the different levels of bridge conditions.	Average bridge condition index value.

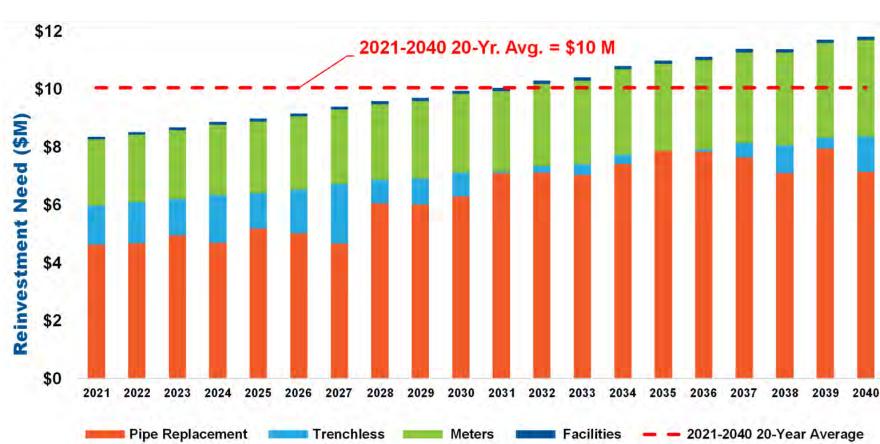




\$14

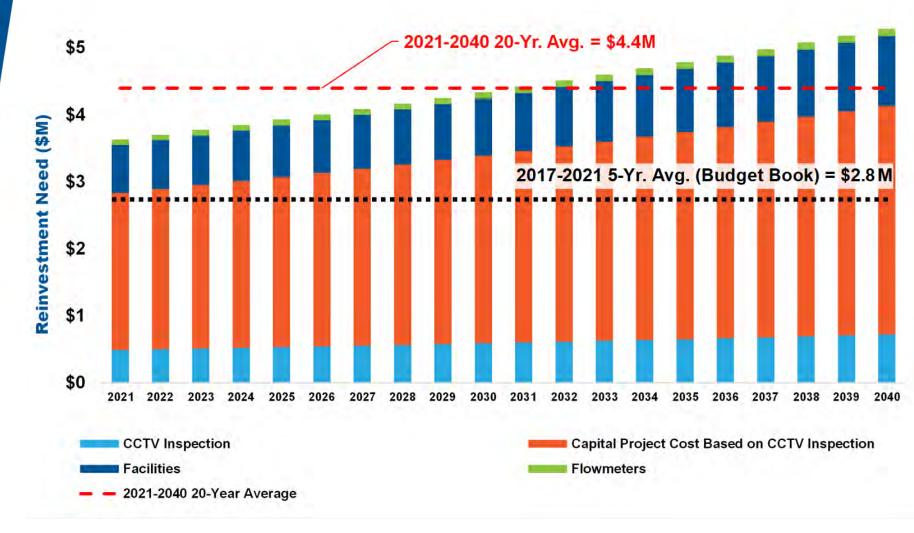
Annual Capital Funding Needs: Water

2017-2021 5-Yr. Avg. (Budget Book) = \$14.1 M



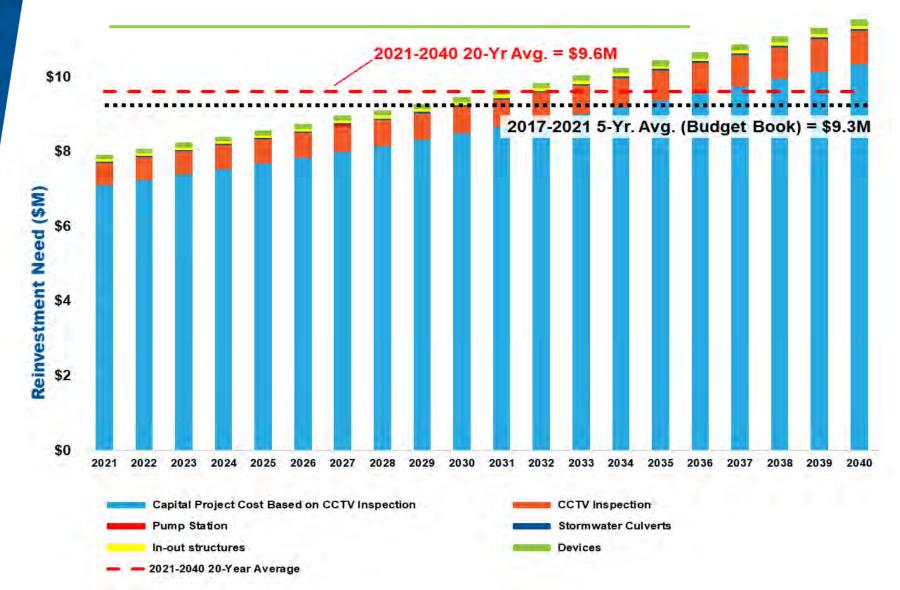


Annual Capital Funding Needs: Wastewater



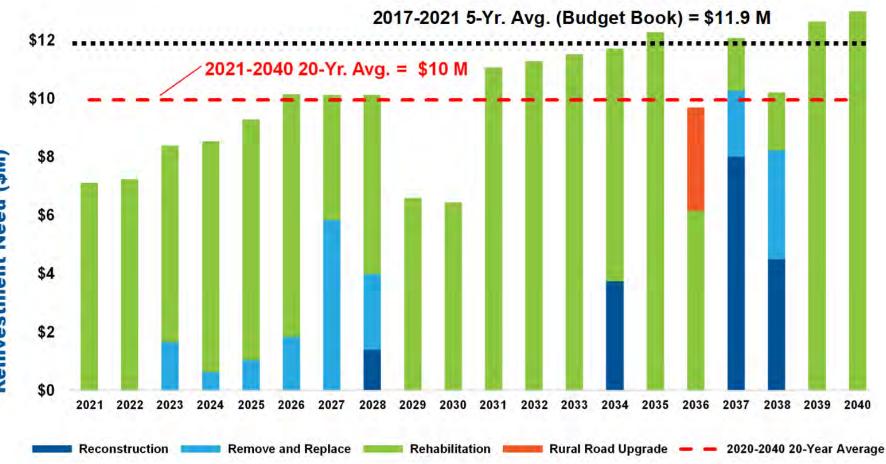


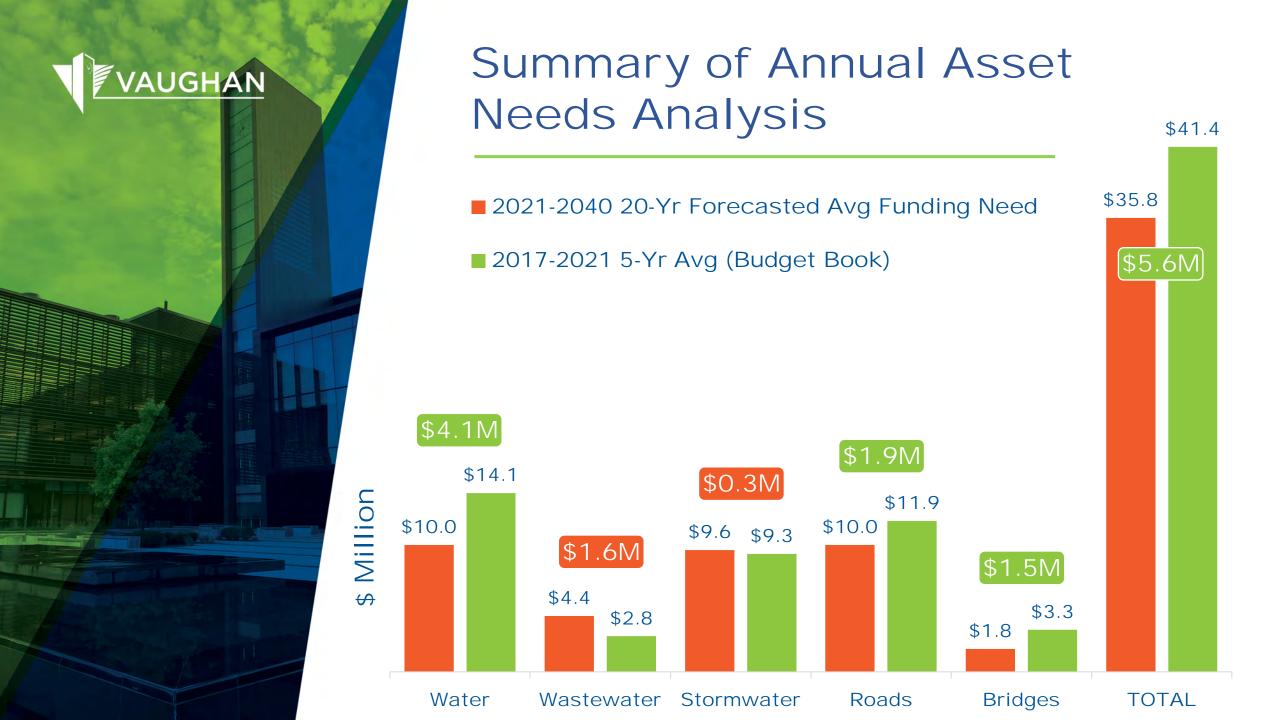
Annual Capital Funding Needs: Stormwater





Annual Capital Funding Needs: Roads





Program Management Process

Infrastructure Development Portfolio





Next Steps

Council Endorsement: Asset Management Plans for Core Assets

- Council Endorsement of AM Plans
- Posting of AM Plans on City Website
- Input into Allocation of Capital Funds and Prioritization of Capital Projects (Infrastructure Development)
- Input into Long Term Fiscal Model and Plan (Finance)
- Development of AM Plans for Remaining Non-Core City Assets



