

INFRASTRUCTURE  
DEVELOPMENT

# 2023 Delivery Report



In 2023, the City of Vaughan effectively progressed the **2022-2026 Term of Council Service Excellence Strategic Plan**, delivering many city-building milestones. Innovative initiatives, including the Kirby Road Extension and Canada Drive-America Avenue Bridge, will transform how residents and goods move and improve the flow of traffic throughout Vaughan. In addition, the City's award-winning active transportation infrastructure continues to advance, and planning is underway for future projects that will build upon our strong foundation.

Investing in infrastructure is ultimately about investing in the well-being of people by:

- helping to ease the flow of people and goods.
- delivering parks, sports and leisure spaces for families to play and stay healthy.
- upholding water and wastewater systems for the community to enjoy clean water and pristine environments.
- preserving, protecting and promoting environmental values for future generations.
- contributing to social inclusivity and promoting accessibility for Canadians of all backgrounds.

[infrastructure.gc.ca](https://www.infrastructure.gc.ca)

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## MESSAGE FROM THE Mayor

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Whether it's maintaining our growing transportation network, efficiently delivering on City-approved and planned capital programs or leading the asset management cycle, the Infrastructure Development portfolio is a leader in executing Council's forward-thinking vision and delivering continued progress for our residents.

Infrastructure Development is working hard leading our efforts to implement the Action Plan to Reduce Traffic Gridlock – projects like the Canada Drive-America Avenue Bridge, which connects two vibrant communities over Highway 400; the Kirby Road extension, which offers another key east-west connection and will relieve pressure on nearby roads and residential neighbourhoods; and the Jane Street Uptown Link project that will make the Jane corridor the heart of cycling in Vaughan. This new infrastructure will strengthen our interconnected transportation network and help keep Vaughan moving.

We are also working hard advancing essential infrastructure improvements throughout our city, such as the streetscaping, sewer upgrades and watermain replacements that revitalized Woodbridge Avenue and the enhancements coming to Kleinburg Village, which will offer a better experience for everyone.

As mayor, I'm proud to lead our collective efforts in building a community that accommodates our growing population today, while laying the groundwork for success for our future as a city.

I extend my heartfelt gratitude to our dedicated Infrastructure Development teams for their tireless efforts and to our residents for their patience and resilience as we navigate these transformative changes together.

Let's continue to build our city together.

A handwritten signature in black ink, appearing to read 'Steven Del Duca'. The signature is stylized and cursive.

**Steven Del Duca**  
Mayor

## MESSAGE FROM THE **City Manager**

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The City of Vaughan’s Infrastructure Development portfolio continues to build our city. The team consistently shows their dedication to designing, delivering and maintaining infrastructure that residents can count on.

From preserving our roads and sidewalks, undertaking major renovations at City facilities, improving or building new neighbourhood parks, growing the city’s active transportation network and more, the team consistently delivers key city-building initiatives that improve the quality of life for everyone here in Vaughan.

On behalf of the Senior Leadership Team – Executive, I want to extend my appreciation to the staff in the Infrastructure Development portfolio for their commitment to exceptional customer service and hard work. Congratulations on the many initiatives, and well-deserved awards and recognitions outlined in 2023 Delivery Report.

A handwritten signature in black ink, appearing to read 'Nick Spensieri'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

**Nick Spensieri**  
City Manager

## MESSAGE FROM THE

# Deputy City Manager, Infrastructure Development

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2023 was a year distinguished by numerous achievements and milestones, thanks to an enhanced delivery rate across all City of Vaughan infrastructure projects. Last year, \$195 million in infrastructure projects was completed – a significant increase in the value of work accomplished compared to the \$166 million spent in 2022.

These projects advanced delivery in all strategic priority areas, with a focus on City Building and Transportation and Mobility, where \$81 million and \$65 million, respectively, worth of projects was completed.

Design Build contracts for major projects, such as the Kirby Road Extension and the Canada Drive-America Avenue Bridge, were awarded in 2023. Design work for the Jane Street Uptown Link was also completed, setting the foundation to further enhance the City's transportation network in 2024. The Woodbridge Avenue Improvements and Streetscaping project was completed in 2023. The renewed streetscape now promotes walking, cycling and transit use, increases safety and supports daily community life and events.

Substantial growth in the delivery of infrastructure across all asset groups was evident, as projects advanced with an impressive cashflow rate of more than 120 per cent. Key projects such as the Carrville Community Centre, Library and District Park, Fire Station 7-12, the Black Creek Renewal,



Kleinburg Village Improvements and the North Maple Regional Park redevelopment progressed in 2023, reflecting the portfolio's proficiency in applying a strategic approach to infrastructure delivery.

The portfolio continues to exemplify fiscal responsibility by leveraging grant opportunities and partnerships to fund and provide in-kind support for various infrastructure projects across the City. More than \$11.5 million of grant funding supported infrastructure projects in 2023.

The 2023 Delivery Report showcases the numerous capital programs and projects that advanced throughout the year to effectively manage and maintain roads, facilities, parks and more. The team pushed forward with all opportunities to build, revitalize and enhance municipal infrastructure, so current and future residents can continue to access world-class amenities and receive high-quality public services for years to come. Building on these successes, the City is geared up to deliver even more in 2024!

**Vince Musacchio**  
Deputy City Manager  
Infrastructure Development

# Executive Summary

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## **Delivering City spaces through creative and inspired thinking to shape exceptional experiences**

The portfolio's supplementary core values and corresponding behaviours help foster a culture of innovation, collaboration and creativity. These supplementary core values complement the City's values of RESPECT, ACCOUNTABILITY and DEDICATION, further supporting and advancing our purpose.

## **Infrastructure assets are planned, designed, built, owned, operated and maintained by the City**

Assets are essential to provide the necessary services that contribute to the high quality of life enjoyed by City of Vaughan residents. It is imperative to ensure services are delivered in a safe, reliable and efficient manner, while sustaining a growing community. Important elements of the City's asset management cycle are the acquisition, renewal and replacement of infrastructure that provide these services.



*Fire Station 7-12 rendering*

## **Strong alignment with the 2022-2026 Term of Council Service Excellence Strategic Plan**

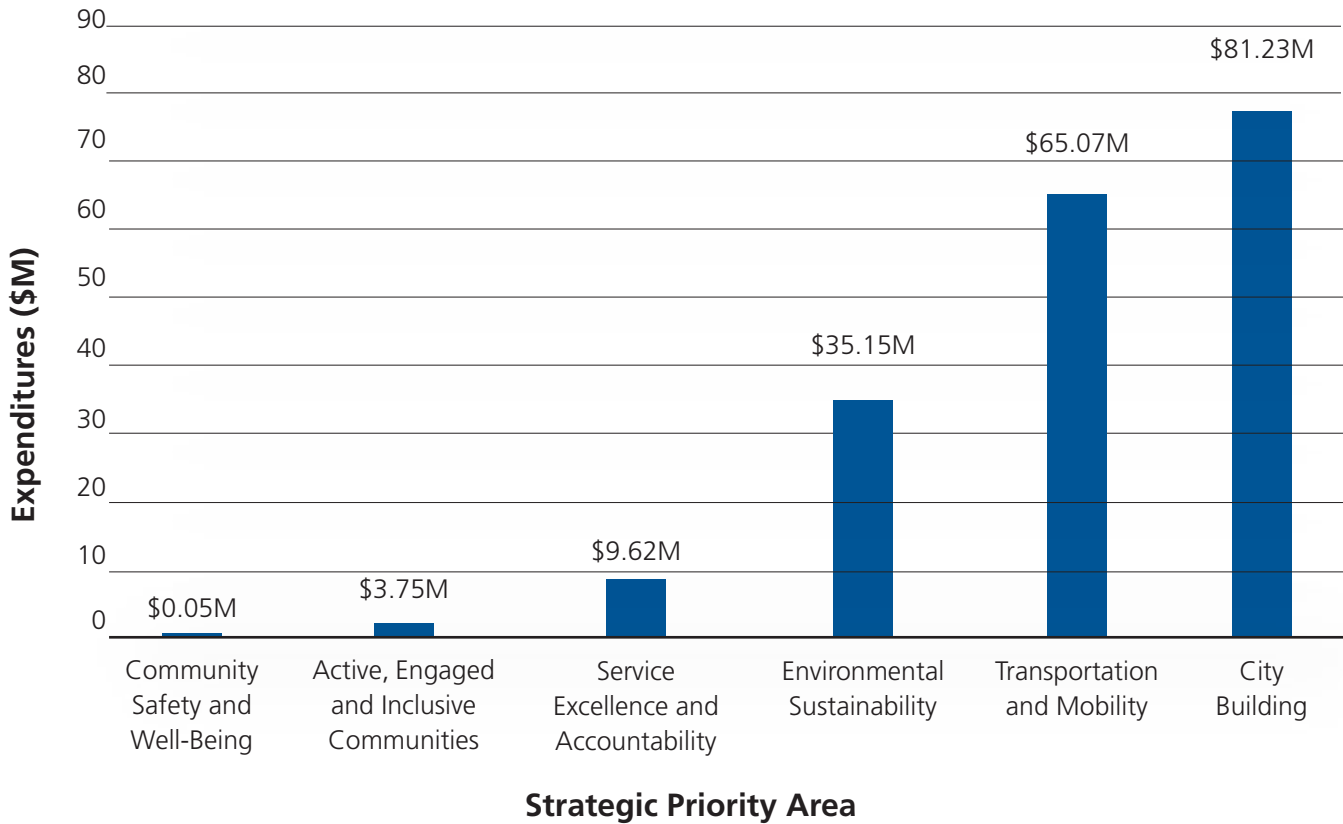
The Infrastructure Development portfolio continued to contribute to the City's Strategic Plan by planning, designing, initiating and completing projects to support most of the strategic priority areas including Active, Engaged and Inclusive Communities; City Building; Community Safety and Well-being; Environmental Sustainability; Service Excellence and Accountability; and Transportation and Mobility. This contribution significantly aids in delivering on the City's vision to become a city of choice that promotes diversity, innovation and opportunity for all citizens, and fosters a vibrant community life that is inclusive, progressive, environmentally responsible and sustainable.

## **Continuing support of the Council-approved Action Plan to Fight Traffic Gridlock in Vaughan**

To accommodate population growth and ensure people can travel throughout Vaughan seamlessly, the Infrastructure Development portfolio worked to progress major projects, such as the Kirby Road Extension and the Canada Drive-America Avenue Bridge. Both of these city-building projects build upon the City's commitment to enhance Vaughan's transportation network and keep residents moving, as part of the Council-approved [Action Plan to Fight Traffic Gridlock in Vaughan](#).



The following is a summary of the 2023 expenditures by strategic priority:



# Capital Programs

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The City's capital program can be subdivided into two programs: **State of Good Repair** and **Growth-Related**.

**State of Good Repair Program:** This program is established through a risk-based review of the condition of the City's infrastructure and its ability to provide the desired level of service to Vaughan's residents. Each asset class is reviewed and the investment requirements (including rehabilitation and replacement) are determined to ensure that the City achieves maximum value for money. Funding sources for this program are generally capital dollars collected through taxation, infrastructure reserves and the provincial gas tax.

**Growth-related Program:** This program was established to deliver new infrastructure to support growth. This includes community infrastructure (e.g. community centres, parks and fire stations), as well as linear infrastructure (e.g. watermains, sewers, sidewalks, cycle tracks and roads). These programs are typically established through the City's Growth Management Strategy and the corresponding master plans that support development. The funding source for this program is primarily collected through Development Charges.

The City made significant investments in State of Good Repair and Growth-Related projects in 2023.

**State of Good Repair:** \$102.48 million

**Growth-Related:** \$92.39 million

**Total:** 442 projects in various asset groups for a total of \$194.87 million in expenditures

- 125 road network projects: \$55.10 million
- 58 water, wastewater and stormwater projects: \$34.54 million
- 118 facilities projects: \$71.73 million
- 103 parks and open spaces projects: \$20.50 million
- 31 active transportation projects: \$12.94 million
- 7 non-asset related projects \$0.06 million

Breakdown of all 2023 projects by phase:

- Study phase: 85
- Design phase: 98
- Construction phase: 127
- Completed: 132

*Please refer to the 2023 Project Highlights under each Asset Group for a summary of key projects.*

# Strategic Alignment

Throughout 2023, the Infrastructure Development portfolio made significant contributions to the City's 2022-2026 Term of Council Service Excellence Strategic Plan by achieving objectives under the following strategic priority areas: Active, Engaged and Inclusive Communities; City Building; Environmental Sustainability; Service Excellence and Accountability; Community Safety and Well-being; and Transportation and Mobility.



## 2023 Expenditures by Strategic Priority



**Transportation and Mobility**  
\$65.07 million



**City Building**  
\$81.23 million



**Environmental Sustainability**  
\$35.15 million



**Community Safety and Well-Being**  
\$0.05 million



**Active, Engaged and Inclusive Communities**  
\$3.75 million



**Service Excellence and Accountability**  
\$9.62 million

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Total: **\$194.87 million**

## Our Purpose and Values

In support of the City's vision, mission, values and Service Excellence Strategic Priorities, the Infrastructure Development portfolio's purpose statement provides staff with the "what, how and why" as it relates to their vital roles and functional responsibilities.

***We deliver City spaces through creative and inspired thinking to shape exceptional experiences.***

In addition, the portfolio's supplementary core values and corresponding behaviours help foster a culture of innovation, collaboration and creativity. These supplementary core values complement the City's values of RESPECT, ACCOUNTABILITY and DEDICATION, and further support and advance our purpose.

## Portfolio Core Values

### **We are a TEAM**

We treat everyone with dignity, value their contributions and help one another succeed.

### **We build COMMUNITY**

We plan, design, deliver and maintain infrastructure that improves quality of life for residents.

### **We are INNOVATIVE**

We explore creative solutions that keep ourselves and the organization relevant.



# 2023 Delivery Updates by Asset Group

## ROADS AND BRIDGES

The roads asset group consists of pavement, curb, traffic signal and streetlight components of the City’s arterial, collector and local roadways network that provide the safe passage of vehicles throughout the community.

The bridges asset group consists of structures that provide a roadway or walkway for the passage of vehicles, pedestrians or cyclists across an obstruction, gap or facility and are greater than or equal to three metres in span.

### Types of Assets:

- Concrete and steel culverts
- Pedestrian and vehicular bridges
- Roadways, concrete curbs and roadway safety barriers
- Guiderails and timber bridges
- Streetlights, traffic signals and pedestrian signals



## Inventory of Assets and Overall Value

	Total Amount	Overall Value
All road assets	2,200 lane kilometres	\$2.0B+

Inventory Breakdown	Amount
Bridges and major culverts	192 units
Roadside curbs	3,000 kilometres
Roadside barriers	26 kilometres
Streetlights	27,000 units
Traffic signals	96 units



**125**

Total number of projects



**\$55.10M**

Total 2023 expenditures

## Breakdown by Project Phase

Phase	Number of Projects per Phase
Study	25
Design	36
Construction	20
Complete	44

## 2023 Project Highlights

### Bass Pro Mills Drive Extension Environmental Assessment

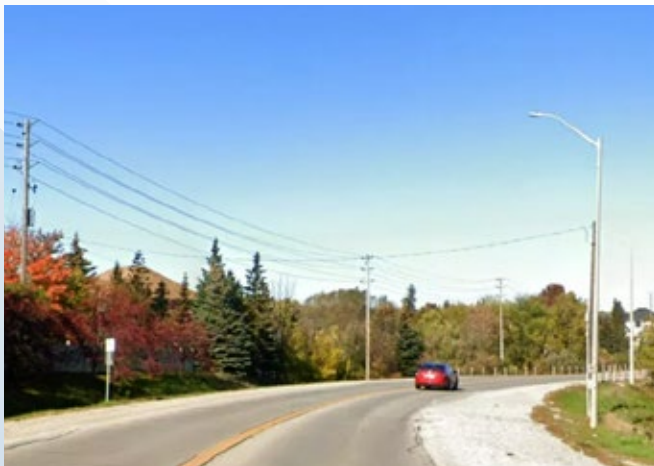
- The City has undertaken a Municipal Class Environmental Assessment study to further assess the need to extend Bass Pro Mills Drive, from Highway 400 to Weston Road. This project is currently in the design phase.

### Canada Drive-America Avenue Bridge

- The City is building a bridge over Highway 400 to connect Canada Drive and America Avenue. The Design Build contract for the project was awarded in 2023.

### Kirby Road Extension

- Kirby Road is being extended between Dufferin Street and Bathurst Street. The Design Build contract was awarded in 2023. The project is expected to break ground in 2024 and is anticipated to be completed by 2026.



### McNaughton Road West Environmental Assessment

- This study will assess operational performance improvements and urbanization of McNaughton Road West. The first engagement for this project was held in June/July 2023

### Teston Road Operational Environmental Assessment

- The Municipal Class Environmental Assessment for this project was completed in November 2023.

### Vaughan Transportation Plan

- Completed in May 2023, the Vaughan Transportation Plan aims to build a transportation system for everyone.

### Woodbridge Avenue Improvements and Streetscaping Project

- Completed in Q4 2023, the municipal infrastructure improvements made to the area include road rehabilitation, watermain replacements, sanitary sewer upgrades, streetscape and landscape enhancements, streetlighting improvements and traffic signal additions, among others.

## WATER, WASTEWATER AND STORMWATER

The water asset group consists of linear and non-linear assets throughout the community that enable the delivery of safe drinking water.

The wastewater asset group consists of linear and non-linear assets throughout the community that enable the collection and conveyance of wastewater to regional trunk sewers and treatment facilities.

The stormwater asset groups consist of linear and non-linear assets throughout the community that manage the stormwater runoff that occurs as a result of rain and snow.

### Types of Assets:

- Water assets include watermains, valves, chambers, hydrants, etc.
- Wastewater assets include sanitary sewers, manholes, pump stations, etc.
- Stormwater assets include storm sewers, catch basins, stormwater management ponds, etc.

## WATER

### Inventory of Assets and Overall Value

	Total Amount	Overall Value
<b>All watermains</b>	1,200 kilometres	\$1.5B

Inventory Breakdown	Amount
Chambers	10,650
Hydrants	10,600
Service connections with meters	91,000
Valves	54,000
Water booster stations and filling stations	5

## WASTEWATER

### Inventory of Assets and Overall Value

	Total Amount	Overall Value
<b>All wastewater assets</b>	1,020 kilometres	\$1.1B

Inventory Breakdown	Amount
Mains (sanitary sewers)	1,020 kilometres
Maintenance holes	16,590
Pump stations	12
Service connections	91,000

## STORMWATER

### Inventory of Assets and Overall Value

	Total Amount	Overall Value
All stormwater assets	1,200 kilometres	\$2.4B

Inventory Breakdown	Amount
Catch basins	22,500
Inlet/outlet structures	800
Mains (storm sewers)	1,200 kilometres
Maintenance holes	16,300
Management ponds	191
Service connections	91,000



**58**

Total number of projects



**\$34.54M**

Total 2023 expenditures

### Breakdown by Project Phase

Phase	Number of Projects per Phase
Study	9
Design	18
Construction	9
Complete	22

### 2023 Project Highlights

#### Black Creek Renewal

- The City is reconstructing and renewing Black Creek between Edgeley Pond (north of Highway 7) and Highway 407 to address flooding within this area. The City has progressed to the design and construction phase in 2023, and the contract for the project will be issued in 2024.

#### Gallanough Park

##### Stormwater Management Facility

- This project includes important municipal infrastructure improvements to the stormwater management facility at Gallanough Park (21 Springfield Way) to combat the risk of flooding during heavy rainstorms. This project is expected to be completed by summer 2024.



### **Keele Street Watermain Replacement (Jardin Drive to Langstaff Road)**

- The watermain replacement work was completed in 2023. As part of the project, York Region will complete road reconstruction along Keele Street, from Highway 407 to Langstaff Road in spring 2024.

### **Old Maple Area Infrastructure Improvements**

- The City progressed watermain replacements, drainage improvements, storm sewer enhancements and road reconstruction work as part of this project, which is expected to be completed by summer 2024.

### **Stormwater Management Facility Improvements**

- This project included stormwater management improvements at Ashbridge Circle Pond, Blackburn Pond, Fieldstone Pond, Franklin Pond and Pondview Pond.

### **Watermain Improvements - Phase 1**

- This project included watermain replacements in Malmo Court, Rodinea Drive and Teston Road, which was completed in 2023.

### **Woodland Acres Area Improvements**

- This project included a watermain replacement, new streetlights and road surface rehabilitation in the Woodland Acres Community, and was completed in 2023.



## FACILITIES

The facilities asset group consists of all buildings owned by the City of Vaughan to serve residents, businesses and City staff.

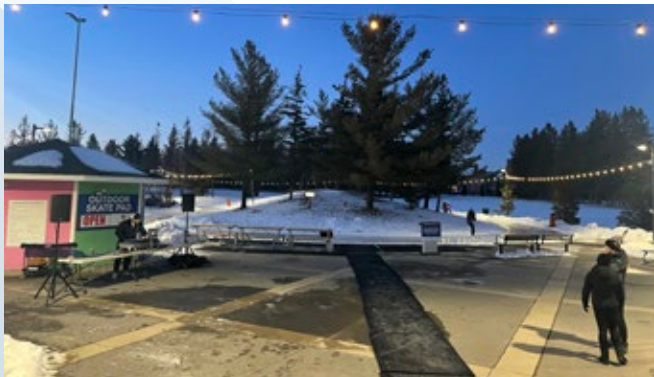
### Types of Assets:

- Administration buildings
- Community centres
- Fire stations
- Heritage buildings
- Libraries
- Operations yards
- Sport/senior clubs/others

### Inventory of Assets and Overall Value

	Total Amount	Overall Value
<b>All facilities</b>	112 buildings accounting for more than 2.1 million square feet	\$680 million*

\* excludes land value



Inventory Breakdown	Total	Total Area (square feet)
Administration buildings	2	414,500
Community centres and facilities	13	999,100
Fire stations	10	100,600
Heritage buildings	19	60,400
Libraries	10	170,000
Operations yards	3	44,000
Sport/senior clubs/others	50	302,000



**118**

Total number of projects



**\$71.73M**

Total 2023 expenditures

### Breakdown by Project Phase

Phase	Number of Projects per Phase
Study	11
Design	5
Construction	77
Complete	25



## 2023 Project Highlights

### **NEW Carrville Community Centre (655 Thomas Cook Ave.), Library and District Park (266 Valley Vista Dr.)**

- Construction for this new Ward 4 community centre advanced and is scheduled to be completed by the end of 2024.

### **NEW Dufferin Operations Centre (8020 Dufferin St.)**

- Construction of this new City facility and salt dome replacement was completed in early 2024.

### **NEW Fire Station 7-12 (9511 Weston Rd.)**

- This new fire station in Ward 3 advanced through the design phase in 2023, with construction scheduled to begin in 2024.

### **Heritage site renewals and improvements**

- The Vellore Hall main floor refresh and basement structural reinforcement project was completed in 2023.

### **ENHANCED Garnet A. Williams Community Centre and York Hill District Park**

- Major renovations were completed in 2023, including a new main entrance, lobby, activity room, outdoor splashpad at York Hill Park, an upgraded fitness centre and much more. The community centre reopened to the public in 2023.

### **Parking lot improvement projects took place at:**

- Bathurst Clark Resource Library
- Al Palladini Community Centre
- Maple Community Centre

### **NEW Vaughan City Hall Welcome Desk – Service Vaughan Project**

- Construction of a new main service counter, private and semi-private meeting rooms and a digital service area at Vaughan City Hall were completed in 2023.

## PARKS AND OPEN SPACES

The parks and open space asset group consists of play spaces, sports fields and amenities for community use and enjoyment, as well as linear open spaces that either expand on the park system or create enhanced linkages between the parks system and open spaces.

For information about multi-use pathways and recreational trails, refer to the Active Transportation section.

### Types of Assets:

- Playgrounds
- Skateboard areas
- Soccer and baseball fields
- Splashpads and waterplay areas
- Tennis and basketball courts

### Inventory of Assets and Overall Value

	Total Amount	Overall Value
<b>Parks</b>	233	\$273 million*

\* excludes land value

Inventory Breakdown	Amount
Baseball fields	62
Basketball courts	76
Tennis court play surfaces	136
Playgrounds	277
Soccer fields	149
Splashpads and waterplay areas	21



**103**

Total number of projects



**\$20.50M**

Total 2023 expenditures

Phase	Number of Projects per Phase
Study	24
Design	33
Construction	18
Complete	28

## 2023 Project Highlights

### Land Acquisitions for Future Parkland

- The City secured properties to support the Black Creek Renewal project, future Block 59 District Park and the Vaughan Metropolitan Centre (VMC) North Urban Park.

### New park developments

- Completed construction of Alouette Common Park in Block 18.
- Advanced detailed design of Martin Tavares Park in Block 18.
- Began construction of Peter Cipriano Park in Block 40.

### North Maple Regional Park

- The City advanced construction of the enabling works site grading, servicing and environmental works on 130 acres of parkland, including the expansion of Vaughan CARES Way with a secondary access road into the park. The concept design and feasibility review for a National Soccer Training Centre and Family Recreation Area was also completed in 2023, along with installations of artistic wayfinding signage within the park.



### **Off-leash dog areas**

- In 2023, community consultation, design, and construction of a new local off-leash dog area at Giovanni Caboto Park was completed, and the design concept for a primary off-leash area at the new Mackenzie Valley Park (5851 Major Mackenzie Dr.) began.
- The construction contract for improvements at the Concord/Thornhill Regional Park off-leash dog area was also awarded in 2023.

### **Park asset renewal**

- Community consultation and design at Blue Willow Square, Sports Village Park and Southview Park was completed in 2023.
- New artificial turf fields at Vaughan Grove Sports Park and Sonoma Heights Community Park were installed.
- Design and construction of playgrounds, tennis courts and basketball courts at more than 25 locations city-wide were initiated.



### **Pickleball Courts**

- Line painting for shared-use pickleball courts at 30 locations across Vaughan and design for eight new dedicated pickleball courts at Carrville Community Centre and Le Parc Park was completed.
- Initiated a Request for Expression of Interest (RFEOI) process to solicit interest from partners in developing a central pickleball location (hub) for Vaughan.

### **Studies**

- The Bartley Smith Greenway Trail Feasibility Study to close a three-kilometre gap between McNaughton Road and Rutherford Road and the city-wide Sports Fields Needs Assessment Study to understand the resident interest in soccer fields in Vaughan were completed in 2023.
- The Greenspace Strategic Plan to ensure residents have equitable access to greenspace begun and Phase 1 of community engagement and background study was completed.
- A Tennis and Racquet Sports Study to plan for the development and renewal of outdoor courts across the city started in 2023.



## ACTIVE TRANSPORTATION

The active transportation asset inventory consists of walking and cycling infrastructure that offers residents the ability to use “human power” or lightweight electric-powered forms of transportation, for both regular travel and recreational opportunities. There are two types of active transportation assets, ones along roadways and ones within the City’s open spaces and parks. Assets along roadways include concrete sidewalks, asphalt in-boulevard multi-use pathways, asphalt cycle tracks and on-street bike lanes. Assets within the City’s open spaces are primarily granular, asphalt or natural material multi-use recreational trails and asphalt or concrete pathways.

Micromobility, generally refers to lightweight electric-powered modes of travel such as e-bikes, e-scooters and limited-speed motorcycles. Only e-bikes and e-scooters are permitted in Vaughan.

In 2022, staff engaged a consultant to review accommodation of micromobility devices in the City’s cycling facilities. The report indicated that designated cycling facilities with appropriate widths can accommodate e-bikes and e-scooters. In October 2023, following staff recommendation, the necessary by-laws to permit and regulate the use of e-bikes and e-scooters on designated cycling facilities and on certain roads where designated cycling facilities currently do not exist were enacted. Council also reaffirmed its support of separate pedestrian and cycling facilities to minimize conflicts between people walking and those riding bikes, e-bikes and e-scooters.

## Types of Assets:

- **Bike lanes** (on road pavement) – dedicated space for people riding bikes, e-bikes and e-scooters, physically separated from people walking but no physical separation from those driving, delineated using pavement markings on the roadway.
- **Cycle tracks** (in-boulevard along a roadway) – designated space for people riding bikes, e-bikes and e-scooters, paved and physically separated from those walking or driving. Can be located on the road pavement with physical separation, or in the boulevard either adjacent to the sidewalk or adjacent to the curb.
- **Multi-use pathways** (in-boulevard along a roadway) – shared space for walking, riding bikes, e-bikes and e-scooters and other forms of active transportation in the boulevard that are generally constructed out of asphalt.
- **Multi-use recreational trails** (within open spaces) – shared space for walking, riding bikes and other forms of active transportation within open spaces, constructed out of various materials including asphalt, granular and natural, etc. E-bikes, e-scooters and other forms of micromobility devices are not permitted on multi-use recreational trails.
- **Pathways** (shared space within parks and around civic buildings) – shared space for walking, cycling and other forms of active transportation within parks and around civic buildings in either asphalt or concrete. E-bikes, e-scooters and other forms of micromobility devices are not permitted on park paths and in playgrounds.
- **Sidewalks** (in-boulevard within road allowance) – dedicated space for walking only in the boulevard generally constructed out of concrete.







## Inventory of Assets and Overall Value

	Overall Value
<b>All Active Transportation</b>	\$240 million
Inventory <sup>1</sup> Breakdown	Amount
Bike lanes (on-road) and cycle tracks	18 kilometers
Multi-use pathways (in-boulevard)	41 kilometers
Multi-use recreational trails	52 kilometers
Toronto and Region Conservation Authority recreational trails <sup>2</sup>	78 kilometers
Pathways	105 kilometers
Sidewalks	1,120 kilometers

<sup>1</sup> Only includes City owned assets

<sup>2</sup> excluded from Overall Value

To create a cohesive network of facilities in a cost effective and timely manner, active transportation projects are implemented using two methods. The first is through “routine accommodation” which leverages already planned capital projects such as road rehabilitation or water service replacement, as well as opportunities through development applications. The second is through the implementation of “standalone projects” through an established active transportation implementation program which is reviewed annually through the budget approval process.



**31**

Total number of projects (standalone only)



**\$12.94M**

Total 2023 expenditures (standalone only)

In 2023, there were a total of 65 projects that advanced active transportation infrastructure – 31 standalone projects and 34 planned capital projects that were leveraged to accommodate active transportation. Additional active transportation infrastructure across the city was also advanced through the development application approval process. For more information consider reading the Committee of the Whole (2) [2023 Active Transportation Programs Fourth Annual Update report](#).

Phase	Number of Projects per Phase (standalone only)
Study	10
Design	6
Construction	3
Complete	12

## 2023 Project Highlights:

### Active Transportation Infrastructure

- In 2023, the City made significant progress by completing the construction of over 11 kilometres of new cycle tracks and multi-use pathways. Additionally, 25 kilometres of existing multi-use pathways and trails were updated with new pavement markings and signage.



### Existing in-boulevard multi-use pathway and trail pavement markings and signage

- 29 kilometres of existing in-boulevard multi-use pathways across Vaughan were updated with pavement markings and signage.
- Locations included multi-use pathways along Highway 27, Major Mackenzie Drive West, Cityview Boulevard, Teston Road and Dufferin Street, as well as trails in the Nashville Neighbourhood, Sonoma Heights and Block 18.

### Jane Street Uptown Link

- The Jane Street Uptown Link Project was identified as a signature project in the 2020 Pedestrian and Bicycle Master Plan.
- The project includes eight kilometres of new cycle tracks on each side of Jane Street, four kilometres of new sidewalks and streetlight enhancements along Jane Street, from Highway 7 to Teston Road.
- Detailed design was completed in 2023 with construction of Phase 1, from Highway 7 to Major Mackenzie Drive, commencing in 2024.

### Keele Street Multi-Use Pathway

- Two kilometres of multi-use pathways were added to the east side of Keele Street, between Teston Road and Kirby Road, providing active transportation connectivity to North Maple Regional Park.

### **Martin Grove Cycle Tracks and Sidewalk Improvements**

- 1.7 kilometres of new cycle tracks were added to each side of Martin Grove Road, from Steeles Avenue to Rainbow Creek Park Trail.

### **New Westminster Drive Road Rehabilitation and Improvements Project**

- Two kilometres of new cycle tracks on both sides of New Westminster Drive, from Clark Avenue to Bathurst Street, and work for the new pedestrian crossover at St. Elizabeth Catholic Highschool began in 2023.

### **Vaughan Super Trail Development**

- Completed public consultation and initiated design of the Humber River Trail within Doctors McLean District Park and the Boyd Conservation Area.
- Commenced construction of the Bartley Smith Greenway and the Langstaff Road Underpass along the Barrie GO Line.

### **Weston Road Sidewalk and Cycle Tracks**

- Two kilometres of new cycle tracks and sidewalks were added on each side of Weston Road, from Teston Road to Major Mackenzie Drive.



# Development Engineering Update

The Development Engineering department is responsible for the expeditious review, approval, inspection and processing of municipal services for land development.

2023 Intake Summary	Total Number
Pool permits	256
Grading permits	1,279
Inspections performed	11,539

## 2023 Assumption Summary

Municipal infrastructure delivered through the development approval process and growth-related projects that were assumed by the City.

### 17 Land Development projects with a value of \$36.8 million

- 22.45 lane kilometres of road
- 18.5 kilometres of watermain
- 15.6 kilometres of sanitary sewer
- 18.8 kilometres of sidewalk
- 13.5 kilometres of storm sewers
- 459 streetlights
- 3 stormwater management ponds





2023 Development Services	Total Number
Active agreements	18
Committee of Adjustment files processed	233
Fully executed agreements	15

## 2023 to 2024 Active and New Development Engineering Projects



**40**

Total number of **active** projects

**1**

Total number of **new** projects

## Project highlights:

### Barons Street Extension to Nashville Road

- The extension of Barons Street to Nashville Road is underway and expected to be completed by Q2 2024.

### Garnet Williams Way Extension

- The extended road was opened in May 2023.

Completed agreements to facilitate the development of the road network and servicing in support of the Block 27 Municipal Class Environmental Assessment.

Continue to facilitate the development of Block 34 East (Walmart site).

Construction of Anatolian Drive is underway as well as two bridge/creek crossings within Block 59.

# Infrastructure Planning Studies and Third-party Projects

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The portfolio oversees a number of long-range master plans, strategies and studies which integrate infrastructure requirements with environmental assessment and planning principles.

The team is committed to protecting the City's interests and needs as it oversees third-party projects, plans and initiatives which may impact Vaughan's infrastructure

## 2023 Project highlights:

### Updated By-laws as of October 2023

- **Parking By-law 064-2019**: As amended, to add the definition of power-assisted bicycles (e-bikes) and electric kick-scooters (e-scooters), and to prohibit these vehicles from parking or stopping on sidewalks.
- **Parks By-law 134-95**: As amended, to add the definitions of e-bikes and e-scooters, and to prohibit these vehicles from parking, driving or riding within parks.
- **Traffic By-law 284-94**: As amended, to permit and regulate the use of e-scooters and e-bikes in Vaughan, and to make other changes regarding the use of bicycle lanes, cycle tracks and multi-use pathways.



### Infrastructure System Optimization Program (ISOP)

- The City is currently monitoring the flow of 25 key sewer locations city-wide. 6,858 meters of fog testing was completed, including 441 lot inspections and 256 dye tests in year two, identifying eight sources of Inflow and Infiltration. The ISOP program continues to support the City's efforts to optimize existing municipal services infrastructure (i.e., water, wastewater, and stormwater management) to improve system performance and maximize capacity.

### Teston Road Environmental Assessment

- The environmental assessment for Teston Road, from Pine Valley Drive to Kleinburg Summit Way, was completed in November 2023.

### **Teston Road Individual Environmental Assessment**

- Continued support of York Region’s Teston Road Individual Environmental Assessment between Bathurst Street and Highway 400 to advocate for the City’s interests in this critical missing link.

### **Transportation Innovation Program**

- Launched in July 2023 and received \$2.5 million in grant funding from the Ontario Vehicle Innovation Network.

### **Urban Water Plan**

- This project is advancing with significant progress in establishing new existing condition water, wastewater and stormwater management system capacity models and identifying where system upgrades are needed to accommodate continued population growth.

### **Vaughan Transportation Plan**

- The plan was endorsed by Council in May 2023 and is the City’s blueprint for future transportation infrastructure, policies, and programs to create a transportation system that supports the sustainable growth of Vaughan.

### **Yonge North Subway Extension**

- Continuing support for the Yonge North Subway Extension project.
- Finalization of the resource agreement with Metrolinx was completed in November 2023 to reimburse the City for the time staff are dedicating to the project.



### Yonge-Steeles Corridor Secondary Plan Collector Roads

- This study was initiated in 2023 to support the growth of this critical area adjacent to a future subway line.

### **Widening Highway 7**

- Successfully advocated for Metrolinx to complete a feasibility study of widening Highway 7 between Islington Avenue and Kipling Avenue underneath the existing Canadian Pacific Kansas City Southern (CPKC) rail line.

### **Technical Analysis, Reviews and Support:**

- **Development Applications:** Technical analysis and support provided on key projects in the City, including Block 34 east sanitary sewer capacity constraints analysis, the Yonge Steeles Secondary Plan and VMC Jane Street wastewater alternatives.



- **Policy Development Support:** Developed a national standard on Inflow and Infiltration reduction in new construction and initiated the review of the City's Sanitary Sewer Design criteria to bring it into conformance with York Region's Inflow and Infiltration reduction requirements. The national standard will also address inconsistencies between management objectives and staff practices, provide advice on Strata Policy, map out roles and responsibilities in a number of areas and initiate efforts on an internal routine disclosure procedure.
- **Third-Party Project Reviews:** Tracking and providing inspection services for more than 40 projects underway by our partners at York Region, the Ontario Ministry of Transportation, Metrolinx, Peel Region and neighbouring municipalities. These projects include regional road improvements such as the Teston Road Individual Environmental Assessment (Highway 400 to Bathurst Street) and future transit projects such as the Metrolinx Regional Transportation Plan update. Participation in and review of each of these projects protect the City's interests for these key infrastructure studies.



# Real Estate Services

The Real Estate team supports city-building initiatives by securing property rights, including full Buy-out, Permanent and Temporary Easements and/or Permissions to Enter and Construct Agreements. On occasion, City-owned property is declared surplus and sold to generate non-tax revenue. In 2023, over \$400,000 was generated from the sale of surplus City lands.

Over 130 development applications were reviewed, resulting in the determination of over \$21 million of cash-in-lieu of parkland obligations.

Real Estate Services manages over 80 leases and licenses, supporting numerous community organizations, including seniors and sporting groups. In 2023, four lease/license renewals were completed.

In 2023, Real Estate Services completed over \$100 million of acquisition of property required for:

- Athabasca Drive Sewer Project
- Canada Company Avenue Culvert Rehabilitation Project
- North Urban Park Property in the VMC

In addition, Real Estate Services works with the Province of Ontario and the Regional Municipality of York to secure property rights required for regional and provincial infrastructure initiatives in the City, including roads, sewers, transit and rail.



# Municipal Excellence

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## AWARDS AND ACCOLADES

### Maple Library Reading Garden Wins Vaughan Urban Design Award of Merit

On January 25, 2023, the new Maple Library Reading Garden was awarded a prestigious Vaughan Urban Design Award of Merit. The Maple Library Reading Garden was designed to create a relaxing outdoor area for the local community, while also serving as a striking focal point for the library and the rest of the community. Framed by graceful arches and illuminated at night, the garden is representative of the innovation and forward-thinking of modern library design and embodies Vaughan Public Libraries commitment to provide welcoming, vibrant and striking public spaces for its customers. The project was designed by ATA Architects and constructed by Gateman Milloy. The response from library customers has been very positive, with Vaughan Public Libraries' staff observing many enjoying this new outdoor space.



The Vaughan Urban Design Awards celebrate excellence in urban design, architecture, landscape architecture and environmental stewardship within the community. Since its inception in 2008, the program has encouraged and honoured many local development initiatives that strive for best practices in their projects and achieved design excellence in executing them. The awards reflect the community's commitment to quality and innovation in city-building.

### Mayors' Megawatt Challenge 10 Percent Club 2023

The Vellore Village Community Centre and Woodbridge Pool Memorial Arena were recognized for lowering energy usage each by 10 per cent in 2023.

### Energy Efficiency

The City also implemented energy efficient practices by leveraging the latest technology in electric Zamboni and reducing the amount of energy used during ice resurfacing at City-facilities with ice rinks.



## CERTIFICATIONS

### Achieved Zero Carbon Building Design Certification for new City Facility

The City's new Carrville Community Centre, Library and District Park, has achieved the Canada Green Building Council's Zero Carbon Building – Design Certification. This achievement demonstrates climate change leadership and innovative sustainability approaches. Approaches include a geothermal system, photovoltaic arrays, lower water use, low-impact landscaping, improved indoor air circulation and quality, electric vehicle charging stations, high-performance heating and cooling and improved insulation.

### Rick Hansen Foundation Accessibility Certifications

Rick Hansen Foundation Accessibility Certification™ (RHFAC) is a rating system that measures the accessibility of buildings and sites. It promotes increased access through the adoption of universal design principles.

To date, 21 City facilities have received RHFAC certifications:

- 11 Accessibility Certified Gold sites (achieving a minimum score of 80 per cent)
- 12 Accessibility Certified sites

# Grant Funding

Numerous Infrastructure Development projects have progressed with the support of grants, reflecting our continued commitment to exploring alternate funding opportunities with a focus on good governance and accountability.

In 2023, grant funding contributed to several of the City's strategic priorities, including the advancement of projects such as the cycle tracks along Jane Street, New Westminster Drive and Major Mackenzie Drive, electric vehicle charging infrastructure across Vaughan, smart mobility solutions through the Ontario Vehicle Innovation Network Demonstration Zone and wage subsidies for summer youth employment.

**More than \$11.5 million in grant funding was awarded in 2023 relating to infrastructure projects.**



Grant Name	Organization/ Agency	Amount Awarded	Description
<b>CAPITAL INFRASTRUCTURE</b>			
Active Transportation Fund	Infrastructure Canada	\$9,600,000	<ul style="list-style-type: none"> <li>Jane Street Uptown Link Project</li> </ul>
Pedestrian and Cycling Municipal Partnership Program	York Region	\$500,000	<ul style="list-style-type: none"> <li>Cycle Tracks along both sides of New Westminster Drive.</li> <li>Cycle Tracks along both sides of Major Mackenzie Drive, between Jane Street and McNaughton Road.</li> </ul>
Zero Emissions Vehicle Program	Natural Resources Canada	\$230,000	<ul style="list-style-type: none"> <li>Installation of 46 electric vehicle charging stations across the city in community centers, libraries and parks.</li> </ul>

Grant Name	Organization/ Agency	Amount Awarded	Description
<b>OPERATIONAL</b>			
Ontario Vehicle Innovation Network	Ontario Centre for Innovation	\$2,500,000 <i>50 per cent shared, in partnership with the City of Markham</i>	<ul style="list-style-type: none"> <li>Demonstration Zone for smart mobility technologies and solutions.</li> </ul>
Canada Summer Jobs	Employment and Social Development Canada	\$6,510	<ul style="list-style-type: none"> <li>Facilities, Project SEARCH Intern</li> <li>Transportation Planning Intern</li> <li>Development Engineering Intern</li> </ul>
Environmental Job Growth Program	Eco Canada	\$15,000	<ul style="list-style-type: none"> <li>Employment Funding</li> </ul>
Streamline Development Fund	Ontario Ministry of Municipal Affairs and Housing	\$304,177.16	<ul style="list-style-type: none"> <li>Funding was used to identify and implement more efficient processes for development approvals.</li> </ul>



# Project Communications

## Enhancing Communications

Throughout 2023, the portfolio – in collaboration with City departments, consultants and our partners in Communications, Marketing and Engagement – employed numerous communication tactics to support vital connections with the community, clients, stakeholders, Vaughan Council and staff.



## More than 700 project communications included:

- project memos
- newsletters
- notices
- public service announcements
- news releases
- social media postings
- digital signage across City-networks
- reports
- mobile signs
- digital ads
- printed promotional materials such as postcards and posters
- and much more!



## Making Islington Avenue more walkable and bikeable!

## TWO new neighbourhood parks

Have your say



## A Family Recreation Area is coming to North Maple Regional Park!

POSTED: Dec. 14, 2023 10:00 a.m. | PARKS, TREES AND TRAILS

## Help shape the future Doctors McLean District Park!

- Open House on **Thursday, Nov. 23**
- Online survey until **Thursday, Nov. 30**

[vaughan.ca/DoctorsMcLean](https://vaughan.ca/DoctorsMcLean)



## Help plan for Vaughan's greenspaces!

POSTED: Sep. 19, 2023 10:00 a.m. | PARKS, TREES AND TRAILS



## Kirby Road Extension

MAY 2023



### What improvements are being made?

The City of Vaughan continues to enhance its transportation network to keep residents moving. To accommodate population growth and ensure people can travel seamlessly throughout Vaughan, the City is extending Kirby Road between Dufferin Street and Bathurst Street.

Once complete, the newly extended Kirby Road will feature:

- four lanes (two in each direction).
- a new bridge structure crossing East Patterson Creek.
- connections to a future underpass trail crossing at East Patterson Creek.
- an in-boulevard multi-use pathway on the north and south sides of the road for cyclists and pedestrians.
- drainage improvements.
- enhanced roadway lighting.
- intersection improvements at both Dufferin Street and Bathurst Street.
- updated traffic signals.

### Project updates

The Design-Build contract for the Kirby Road Extension project has been awarded to KAPP Infrastructure. Construction is anticipated to be commencing field investigations and detailed design work this summer. Construction is anticipated to begin in summer 2024 and be completed by summer 2026. For more information, visit [vaughan.ca/Kirby](https://vaughan.ca/Kirby)

### Contact us

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[Infrastructure.Delivery@vaughan.ca](mailto:Infrastructure.Delivery@vaughan.ca)  
[vaughan.ca/InfrastructureProjects](https://vaughan.ca/InfrastructureProjects)



## Working to enhance Kleinburg Village



# 2024 Outlook

## PROJECTED EXPEDITURES

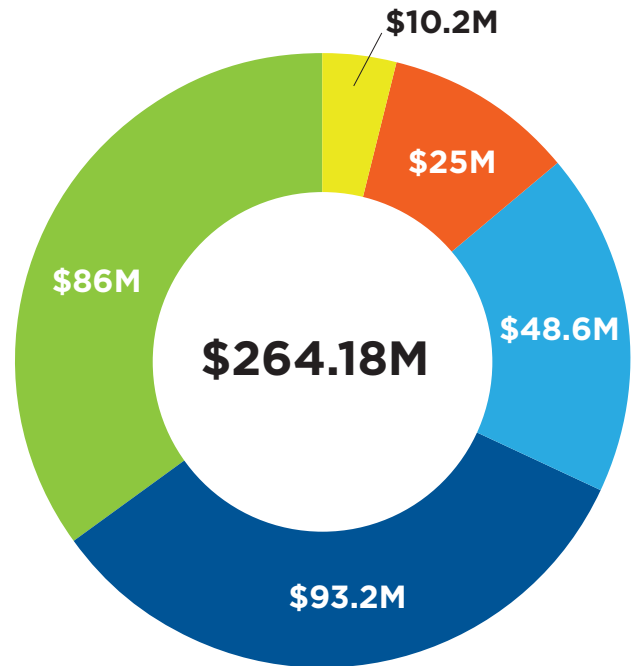
### Breakdown by Strategic Priority

Strategic Priority*	Projected Expenditure**
Active, Engaged and Inclusive Communities	\$10.24M
City Building	\$86.55M
Community Safety and Well-being	\$0.56M
Environmental Sustainability	\$48.60M
Service Excellence and Accountability	\$25.01M
Transportation and Mobility	\$93.23M
<b>TOTAL:</b>	<b>\$264.18M</b>

\* Based on 2022-2026 Strategic Priorities

\*\*rounded

### Projected Expenditures by Strategic Priority





# PROJECTED EXPEDITURES

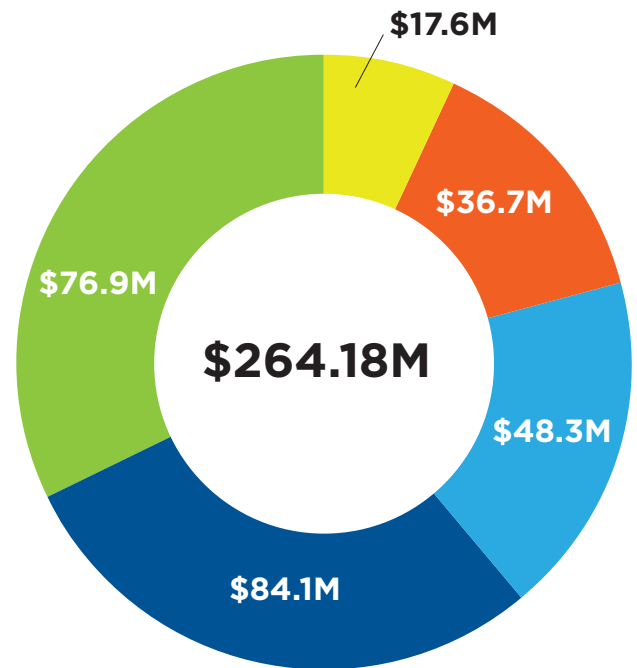
## Breakdown by Asset Group

Strategic Priority*	Projected Expenditure**
Active Transportation	\$17.63M
Facilities	\$84.10M
Non-asset related	\$0.57M
Parks and open spaces	\$48.30M
Roads and bridges	\$76.87M
Water, wastewater and stormwater	\$36.71M
<b>TOTAL:</b>	<b>\$264.18M</b>

\*\*rounded

## Projected Expenditures by Asset Class

(For reference only. Pie chart generated based on content to the left).



## CASHFLOW RATE: 2020, 2021, 2022

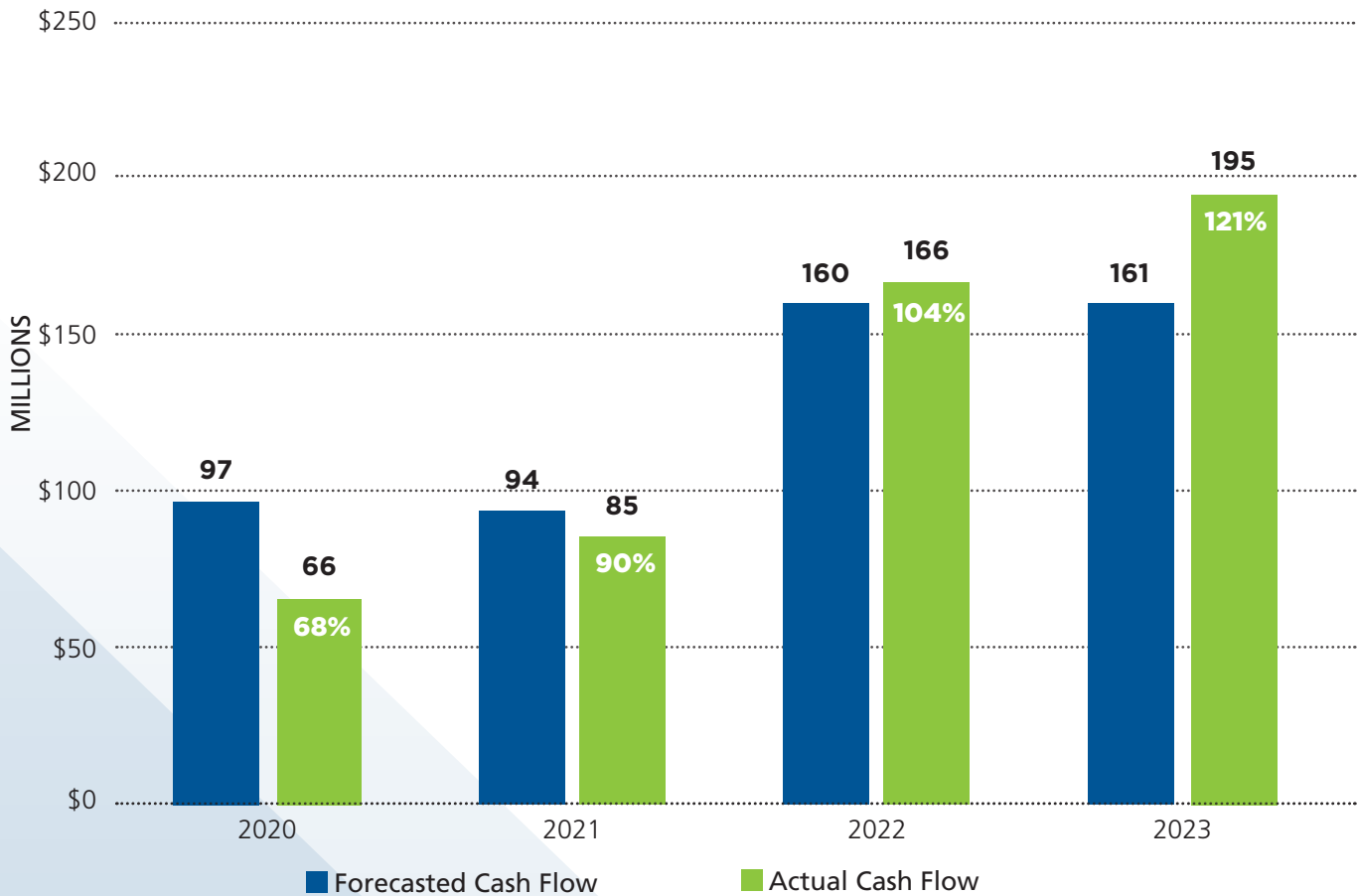
### Breakdown by Asset Group

Year	Forecasted Cash Flow	Actual Cash Flow
2020	\$97,148,102	\$66,009,604
2021	\$94,341,202	\$84,910,287
2022	\$159,860,814	\$165,653,930
2023	\$160,883,724	\$194,864,848



### Annual Forecast to Actual Cash Flow

Note: Percentages on bars represent cash flow rate.





MAXIMUM  
40

